Self Assessment Report (SAR)

For

NBA Accreditation of Undergraduate Engineering Program **Bachelor of Technology**

In

Computer Science and Engineering



Asansol Engineering College

Vivekananda Sarani, Kanyapur Asansol, Burdwan West Bengal, Pin-713305

Submitted To



National Board of Accreditation 4th Floor, East Tower, NBCC Place, Bhisham Pitamah Marg, Pragati Vihar, New Delhi, India March 2022

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PART A: Institutional Information

1. Name and address of the Institution:

Asansol Engineering College

Vivekananda Sarani, Kanyapur

Asansol - 713 305 (W.B)

2. Name and address of the Affiliating University:

Maulana Abul Kalam Azad University of Technology

(Formerly Known as West Bengal University of Technology)

BF-142, Sector 1, Salt Lake City Kolkata 700064, West Bengal

3. Year of establishment of the Institution:

1998

4. Type of the Institution:

University

5. Ownership Status:

Central Government				
State Government				
Government Aided				
Self financing				
Trust				
Society Section 25 Company				
Any Other (Please specify)				

Provide Details: Non profitable benevolent society

6. Other Academic Institutions of the Trust/Society/Company etc., if any:

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None

7. Details of all the programs being offered by the institution under consideration:

S. No Program Name	Name of the Department	Year of Start	Intake	Increase in intake, if any	Y ear of		Accreditation Status*
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r								
1	B. Tech in Electronics & Communication Engineering	Electronics & Communicatior Engineering	1998	40 60 90 120	20 30 30	2000 2002 2009	Yes	Applied
2	B. Tech in Computer Science & Engineering	Computer Science & Engineering	1998	40 60 90 120 180	20 30 30 60	1999 2001 2009 2020	Yes	Applied
3	B. Tech in Mechanical Engineering	Mechanical Engineering	2003	30 60 120 60	30 60 -60	2008 2011 2020	Yes	Applied
4	B. Tech in Information Technology	Information Technology	1998	40 60 90 120	20 30 30	2000 2001 2020	Yes	Yet to apply
5	B. Tech in Electrical Engineering	Electrical Engineering	1998	60 90 120	30 30	2002 2014	Yes	Yet to apply
6	B. Tech in Civil Engineering	Civil Engineering	2009	60 30	-30	2020	Yes	Yet to apply
7	B. Tech in Applied Electronics & Instrumentation	Applied Electronics & Instrumentatior	2002	40 60 30 00	20 -30 - 30	2003 2020 2021	Yes	Not Applicable
8	B. Tech in Computer Science & Business Systems	Computer Science & Business Systems	2020	30			Yes	Not Applicable
9	B. Tech in Artificial Intelligence and Machine Learning	AI & ML	2021	30			Yes	Not Applicable

TableA.7

8. Programs to be considered for Accreditation vide this application:

S No	Level	Discipline	Program
1	Under Graduate	Engineering & Technology	Computer Science &
			Engineering
2	Under Graduate	Engineering & Technology	Electronics & Communication
			Engineering
3	Under Graduate	Engineering & Technology	Mechanical Engineering

9. Total number of employees in the institution:

A. <u>Regular Employees (Faculty and Staff)</u>

		CAY	-		Ym1		Ym2
		202	1 -22	202	0-21	2019-20	
Items		Min.	Max.	Min.	Max.	Min.	Max.
Faculty in	М	104	104	110	110	112	112
Engineering	F	19	19	22	22	21	21
Faculty in Mathematics,	М	19	19	18	18	18	18
Science & Humanities	F	10	10	10	10	10	10
Non-Teaching Staff	М	56	56	56	56	56	56
	F	08	08	08	08	08	08

B. <u>Contractual staff Employees (Faculty and Staff) (not covered in Table A)</u>

Items .		CAY 2021 -22		CAYm1 2020-21		CAYm2 2019-20	
		Min	Max	Min	Max	Min	Max
Faculty in	Μ	0	0	0	0	0	0
Engineering	F	0	0	0	0	0	0
Faculty in Mathematics, Science &Humanities	Μ	0	0	0	0	0	0
	F	0	0	0	0	0	0
Non-Teaching staff	Μ	0	0	0	0	0	0
	F	0	0	0	0	0	0

10. Total No. of Engineering Students:

Item	CAY 2021 -22	CAYm1 2020-21	CAYm2 2019-20
Total no. of Boys	1840	1936	2154
Total no. of Girls	557	520	538
Total no. of Students	2397	2456	2692

11. Vision of the Institution:

To emerge as a center of excellence in technical education, offering best of the teaching and learning by creating ambience for advanced level of education and research to serve the society.

12. Mission of the Institution:

IM-1. To create an ambience for advanced level of teaching and learning process.

IM-2. To generate new ideas by engaging in cutting-edge research and technology.

IM-3. To initiate collaborative projects which offer opportunities for long term interaction

with industry and academia.

IM-4. To develop intellectual human potential for serving the society according to the regional, national and global needs.

13. Contact Information of the Head of the Institution and NBA coordinator, if designated:

a. Name: Dr. (Prof.) P.P. Bhattacharya
Designation: Principal
Mobile No: (+91) 9261778708
Email id: *principal@aecwb.edu.in*

b. **NBA coordinator, if designated**: Name: Dr. Sandip Halder

1

Designation: HOD, Basic Sciences & HU Mobile No: (+91) 90514 19422 Email id: *hodbs hu@aecwb.edu.in*

PART B: Criteria Summary

Name of the Program: B. Tech in Computer Science & Engineering

Criteria No.	Criteria	Mark / Weightage				
Program Level Criteria						
1.	Vision, Mission and Program Educational Objectives	60				
2.	Program Curriculum and Teaching–Learning Processes	120				
3.	Course Outcomes and Program Outcomes	120				
4.	Students' Performance	150				
5.	Faculty Information and Contributions	200				
6.	Facilities and Technical Support	80				
7.	Continuous Improvement	50				
	Institute Level Criteria					
8.	First Year Academics	50				
9.	Student Support Systems	50				
10.	Governance, Institutional Support and Financial Resources	120				
Total 1000						

CRITERION 1

VISION, MISSION AND

PROGRAM EDUCATIONAL OBJECTIVES

1. VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES (60)

1.1. State the Vision and Mission of the Department and Institute (5)

1.1.A Availability of statements of the departments

Institute's Vision

To emerge as a centre of excellence in technical education, offering best of the teaching and learning by creating ambience for advanced level of education and research to serve the society.

Institute's Mission

- IM-1. To create an ambience for advanced level of teaching and learning process.
- **IM-2.** To generate new ideas by engaging in cutting-edge research and technology.
- **IM-3.** To initiate collaborative projects which offer opportunities for long term interaction with industry and academia.
- **IM-4.** To develop intellectual human potential for serving the society according to the regional, national and global needs.

Department's Vision

To emerge as a leading destination in the field of Computer Science and Engineering education and research, by providing quality technical education to the aspiring students.

Department's Mission

DM-1. To educate the students with state-of-the-art technologies to meet the current needs of the industry and society.

DM-2. To inculcate ethical values, team spirit and leadership qualities among the students.

DM-3. To create an environment that will encourage higher study and research

1.1.B Appropriateness/Relevance of the statements

If the students are educated with state-of-the-art technologies that meets industry and societal needs, develop ethical values, team spirit and leadership qualities, and the department is able to create an environment that inspires higher study and research then only the department can become a leading destination for Computer Science and Engineering education meeting the expectation of the aspiring students.

1.1.C Consistency of the Department's statements with the Institute's statements

The consistency of the Department's Vision with Institute's Vision and the consistency of Department's Mission with Institute's Mission are shown in Table 1.1.1 and Table 1.1.2 respectively. The keywords in the Department's and the Institute's statements are highlighted to show the consistency.

Table 1.1.1 Consistency of Department Vision with Institute's Vision

Department's Vision	Institutes Vision				
To emerge as a leading destination in the field	To emerge as a centre of excellence in				
of Computer Science and Engineering	technical education, offering best of the				
education and research, by providing quality	teaching and learning by creating ambience for				
technical education to the aspiring students.	advanced level of education and research to				
	serve the society .				

Table 1.1.2 Consistency of Department's Mission with Institute's Mission

Department's Mission	Institutes Mission
To educate the students with state-of-the-art	To create an ambience for advanced level of
technologies to meet the current needs	teaching and learning process.
of the industry and society .	To generate new ideas by engaging in cutting-
	edge research and technology.
To inculcate ethical values, team spirit and	To initiate collaborative projects which offer
leadership qualities among the students.	opportunities for long term interaction with
	industry and academia.
To create an environment that will encourage	To develop intellectual human potential for
higher study and research.	serving the society according to the regional,
	national and global needs.

1.2. State the Program Educational Objectives (PEOs) (5)

After 3-4 years of graduation, the students of the program will be able to:

- 1. **PEO1:** Apply the knowledge acquired in the field of Computer Science and Engineering to provide solutions for various multidisciplinary engineering and societal challenges.
- 2. **PEO2:** Involve in life-long learning for sustainable development in the evolving technological domains.
- **3. PEO3:** Emerge as successful computer engineers, administrators, academicians and entrepreneurs through teamwork while maintaining ethical values.

1.3.Indicate where the Vision, Mission and PEOs are published and disseminated among stakeholders

(10)

The various stake holders of this program are

Internal Stakeholders

- 1. Students
- 2. Faculty and technical staff

External Stakeholders

- 1. Affiliating University (MAKAUT)
- 2. Guardian

3. Institute Management

- 3. Employers
- 4. Board of Governors4. Alumni

The interests of various stake holders in the program are as follows:

- *Students*: The students are interested in whether the program completely prepares them for future employment.
- *Faculty and technical staff*: The faculty and technical staff members are involved in knowledge transfer and identification of curricular gaps.
- **Board of Governors (BoG):** BoG provides the strategic direction of the institution, through approval, monitoring and review of the strategic (i.e. corporate) and operational plans. It also ensuring the existence of an effective internal control framework for smooth running of different programs.
- *Institute Management*: Responsible for execution of the strategies developed by the BoG. Key to provide necessary financial and operational support for the success of the program.
- *Maulana Abul Kalam Azad University of Technology*: Being the affiliating university, the program follows the university guidelines.
- *Guardian*: They are interested in quality technical education and employability of their wards.
- *Employers (government, industry and universities)*: Employers' satisfaction with the students' education and acquired skills provide measure of the program's success. Their satisfaction translates to employment opportunities for the students.
- *Alumni*: The satisfaction of this stakeholder is a measure of the effectiveness of the program at a large and their success in professional careers is an indicator of the effectiveness of the program's implementation.

1.3.A Adequacy in respect of publication and dissemination

The Vision & Mission of the department and Program Educational Objectives (PEOs) of the program are published in:

- College brochure and admission kit.
- Departmental page of the college website (<u>https://sites.google.com/view/aecwb-cse/home</u>).
- Flexi/Permanent boards in HOD room, Faculty rooms and other prominent locations in the department like laboratories and notice boards.
- The college makes several efforts to ensure that the Vision & Mission of the department and Program Educational Objectives (PEOs) of the program are disseminated effectively to all the stakeholders.

The Vision, Mission and PEOs are: -

• Informed *to the students* and their importance is explained.

- Circulated and informed *to parents* during orientation program and when they visit the college.
- Communicated *to the new staff members* and their opinion is sought about the commission and omission of the objectives.
- Circulated and informed to the *alumni, management* and **BoG**.

1.3.B Process of dissemination among stakeholders

The places where Mission and Vision statements of the Department are published and disseminated to the stakeholders are shown in **Table 1.3.1** and that for the PEOs are shown in **Table 1.3.2.Figures 1.3.1** and **1.3.2** show two of the places as an example.

Table 1.3.1 Places where Mission and Vision statements of the Department are published and disseminated to the stakeholders

Particulars	Internal Stakeholders	External Stakeholders
Departmental page of the college website (https://sites.google.com/view/aecwb-cse/home)		\checkmark
College Brochure		
Faculty rooms		
Class rooms	\checkmark	
Laboratories	\checkmark	
Departmental Corridors	\checkmark	
Departmental Library		
Seminar Hall		

 Table 1.3.2 Places where PEOs of the Department are published and disseminated to the stakeholders

Particulars	Internal Stakeholders	External Stakeholders
Departmental page of the college website		
(https://sites.google.com/view/aecwb-cse/home)		
Faculty rooms		
Laboratories		
Departmental Corridors		
Departmental Library		
Seminar Hall		



Fig. 1.3.1 HOD's room

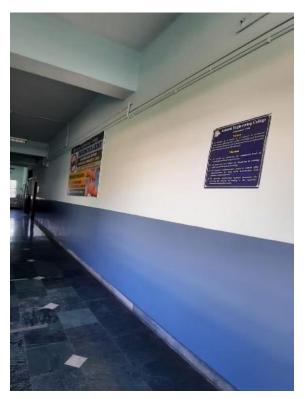


Fig. 1.3.2 Corridor

1.3.C Extent of awareness of Vision, Mission and PEOs among the stakeholders

- Faculty members attend workshops on Outcome Based Education (OBE). The Department motivates new faculty members to attend workshops on Curriculum Development and OBE. A sample is shown in Fig. 1.3.3.
- In the faculty meeting at the beginning of every semester, Vision, Mission, PEOs and PSOs are discussed so that everyone remains focussed. In parent-teacher meetings and1st year orientation, these are also discussed so that the students and parents/guardian are aware of the same.



Fig.1.3.3 Faculty attending workshop on Curriculum Development

1.4. State the process for defining the Vision and Mission of the Department, and PEOs of the program (25)

To begin with, feedback was collected from various stakeholders as per the notification of the Head of the Department and then a brainstorming session was organized by DAC to discuss on:

- Re-alignment of courses to the contemporary industry needs
- Need for accreditations and the way ahead

Taking inputs from the session, the Vision and Mission of the Department and PEOs of the program were framed.

1.4.A Description of process involved in defining the Vision, Mission of the Department

In coherence with Institute's vision & mission, the vision and mission statements of the department were prepared by involving the stakeholders. Following process as depicted in **Fig.1.4.1**was adopted in developing departmental Vision & Mission statements:

Information was collected, summarized and the following most critical components for developing vision and mission of the department were listed by DAC:

- Quality Knowledge
- Professional career
- Higher education

- Innovation and research
- Lifelong learning
- Social and Ethical Responsibilities
- > Armed with the information thus collected, the DAC drafted a strong and meaningful Vision and Mission.
- > The drafted Vision and Mission were then put before the Academic Committee (AC) for approval.
- If approved by AC, the Vision and Mission statements were forwarded to the Board of Governors (BoG). If modifications were required these were returned to DAC for redrafting.
- ➢ If approved by BoG,
- Finally, after due consideration, Vision & Mission for the department were established and were sent for ratification by Board of Governors (BoG).

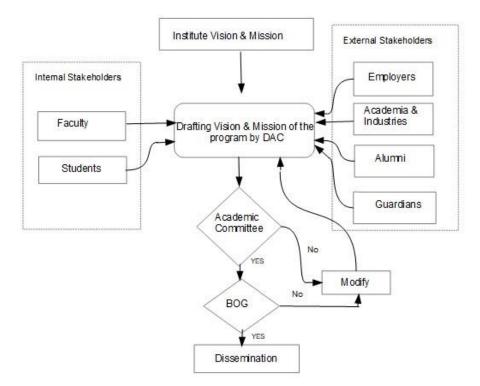


Fig.1.4.1:- Process of defining Vision and Mission of the Department.

1.4.B Description of process involved in defining the PEOs of the program

The PEOs are essentially a broad statement of the objectives for which the program is running. In the first place, these objectives should help in fulfilling the mission of the department. Secondly, the students graduating from the program are expected to lead a fruitful and meaningful life in the society. Thus, it is necessary that these objectives should comply to the extent possible, with the mission of the department and industry requirements. The industry

needs are gauged through the feedback, mostly verbal, received in the Training and Placement Office (TPO). In addition, the alumni who have gone to industry or to institutes of high reputation are able to reflect whether the objectives are adequate or not. The steps involved in defining the PEOs is depicted in **Fig.1.4.2** below.

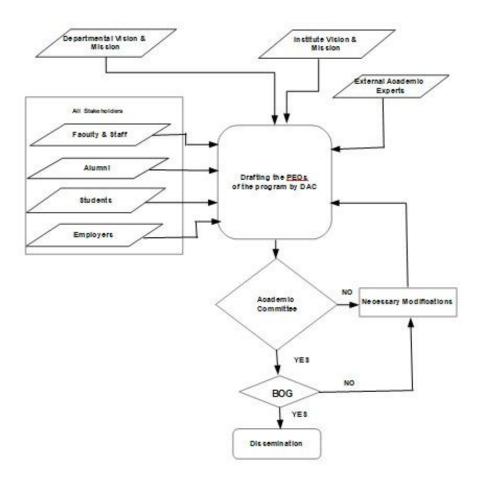


Fig.1.4.2:- Process of defining PEOs of the program

- > The data related to the program from the brainstorming session conducted was collected by DAC.
- DAC also took the feedback from the college Training and Placement Office (TPO) to get more clarification regarding industry needs.
- All the information was collected, summarized, and the following most critical components for developing PEOs of the program were listed:

✓ Employment

- Private Sector Jobs
 - Core Engineering Jobs
 - Software Related Jobs
- Government Jobs
 - With/ without GATE Score card
 - Through UPSC/State Service Commission.

- ✓ Higher education
 - o M. Tech or Equivalent
 - MBA or equivalent
 - GRE & TOEFL
- ✓ Entrepreneurship
- ✓ Career Growth
- ✓ Lifelong learning
- ✓ Social and ethical Responsibilities

- > Armed with the information thus collected, DAC drafted the PEOs for the program.
- > The drafted PEOs were then put to the Academic Committee (AC) for approval.
- Finally, after due consideration, PEOs for the program were established and were sent to BoG for ratification.

1.5. Establish consistency of PEOs with Mission of the Department (15)

1.5.A Preparation of a matrix of mapping PEOs and elements of Mission statements

The PEOs have been developed in line with mission of department. To establish consistency, the mapping of **PEOs** with **Mission of the Department (DM)** is shown on a weighted relationship in **Table 1.5.1**. The qualitative relevance is shown as Strong, Average, Low or No correlation. A numerical weight is assigned in accordance with the designated relevance and is shown along with the correlation. Table 1.5.2 shows the keywords in PEOs and Mission statements that relate to each other while Table **1.5.3** explains how the PEOs lead to success of the departmental mission.

Table 1.5.1 Correlations between PEO and Mission of the Department

PEOs	Mission of the Department										
	DM-1	<i>DM-3</i>									
PEO-1	3	3	2								
PEO-2	3	2	3								
PEO-3	3	3	3								

Slight (Low)	1
Moderate (Medium)	2
Substantial (High)	3
No correlation -	

1.5.B Consistency/Justification of correlation parameters of the above matrix

Table 1.5.2 Keywords in PEOs and Departmental Mission that relate to each other

Program Educational Objectives (PEOs)	Departmental Mission
PEO1: Apply the knowledge acquired in the	
field of Computer Science and Engineering to	the-art technologies to meet the current
provide solutions for various multidisciplinary	needs of the industry and society.
engineering and societal challenges.	
PEO2: Involve in life-long learning for	DM-2. To inculcate ethical values, team
sustainable development in the evolving	spirit and leadership qualities among the
technological domains.	students.
PEO3: Emerge as successful computer	DM-3. To create an environment that will
engineers, administrators, academicians and	encourage higher study and research.
entrepreneurs through teamwork while	
maintaining ethical values.	

Table 1.5.3 Explanation of how fulfillment of PEOs lead to success of Departmental Mission

	N/C	acion of the Donostre and	
PEOs	DM1	ssion of the Department DM2	DM3
	Fulfilling PEO1 will indicate	Fulfilling PEO1 will indicate that DM2 is	Fulfilling PEO1 will indicate that DM3 is
PEO1	thatDM1 is highly successful. This is because students will be able to apply the acquired knowledge if and only if they are educated with the state-of- the-art technologies.	highly successful. This is because students will be able to undertake societal challenges if they have developed ethical values, team spirit and leadership qualities.	successful. This is because students will be able to and acquire apply engineering knowledge if the department provides an environment to promote academic research.
PEO2	Fulfilling PEO2 will indicate that DM1 is highly successful. This is because students will be able to engage in life-long learning, if and only if they are educated with technologies that meet the current need of industry.	Fulfilling PEO2 will indicate that DM2 is successful. This is because students can continue self- development if they have ethics and team spirit while working in industry.	Fulfilling PEO2 will indicate that DM3 is highly successful. This is because students will be able to continue self- development if the department promotes higher study and academic research.
PEO3	Fulfilling PEO3 will indicate that DM1 is highly successful. This is because students can emerge as good engineers and academicians if they have the latest technological knowledge.	Fulfilling PEO3 will indicate that DM2 is highly successful. This is because students will be become good engineers and academicians if and only if there is an environment for higher study and research.	Fulfilling PEO3 will indicate that DM3 is highly successful. This is because students will become technically sound engineers and good academicians if the department promotes higher studies and research.

CRITERION 2 PROGRAM CURRICULUM AND TEACHING LEARNING PROCESSES

2. PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES

(120)

2.1. Program Curriculum (20)

2.1.1. State the process used to identify extent of compliance of the University curriculum for attaining the Program Outcomes and Program Specific Outcomes as mentioned in Annexure I. Also mention the identified curricular gaps, if any (10)

Program Outcomes as mentioned in Annexure I and the Program Specific Outcomes are listed below:-

List of Program Outcomes (POs)

PO-1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO-2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO-3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO-4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO-5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO-6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO-7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO-8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO-9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO-10.Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO-11.Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO-12.Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

List of Program Specific Outcomes (PSOs)

After the completion of B.Tech course in Computer Science and Engineering, the students will be able to:

PSO1: Attain the ability to design efficient algorithms for developing hardware and software based systems.

PSO2: Apply standard software engineering approach and be able to use modern tools for solving real life problems.

PSO3: Apply the acquired proficiency to become successful technocrats and entrepreneurs as well as engage in research work in emerging fields of Computer Science and Engineering.

2.1.1. A. Process used to identify extent of compliance of the University Curriculum for attaining the Program Outcomes (POs) and Program Specific Outcomes (PSOs).

Asansol Engineering College is affiliated to **Maulana Abul Kalam Azad University of Technology** (**MAKAUT**), formerly known as *West Bengal University of Technology* (*WBUT*). So our program curriculum is as per the syllabus of affiliated university. Usually the curriculum maintains the balance in the composition of Basic Science (BS), Humanities and Social Sciences including Management (HM), Engineering Science (ES), Professional Core Courses (PCC), Professional Elective Courses (PEC), Open Elective Courses (OEC), Mandatory Courses (MC) and Project Works, seminar and Internship (PROJ). The university prescribed curriculum maintains the balance in the composition of various basic curricular components. However, it is necessary that the students' learning should be in accordance to the current

academic needs and industry. The University Syllabus (Old and New) which adheres to the AICTE model curriculum for this program is divided into the following broad curricular components and their credit percentage is shown below in Table 2.1.1.1:

Course Category Name	Course Category Code	MAKAUT NEW (2018-19 onwards)	MAKAUT OLD (Prior 2018)	AICTE MODEL
Humanities and Social Sciences including Management courses	HM	6.78%	8.37%	7.55%
Basic Science Courses	BS	13.56%	17.73%	15.09%
Engineering Science Courses	ES	14.69%	19.21%	18.24%
Professional core courses	PCC	39.55%	29.06%	30.82%
Professional Elective courses	PEC	10.17%	10.84%	11.32%
Open Elective courses	OEC	6.78%	4.93%	7.55%
Mandatory courses	MC	0.00%	0.49%	0.00%
Project Works, seminar and Internship	PROJ	8.47%	9.36%	9.43%

Table 2.1.1.1 curricular components and their credit percentage

Table 2.1.1.1 depicts that in the new syllabus of MAKAUT from the academic session 2018-2019, there is more emphasis on professional core courses and other courses are balanced with the AICTE model curriculum.

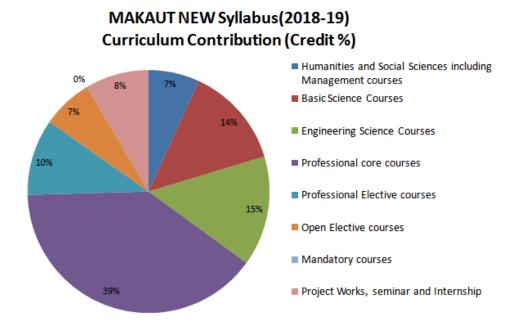


Fig. 2.1.1.1Curriculum credit percentage of the various course categories for MAKAUT New Syllabus (2018-19 onwards).

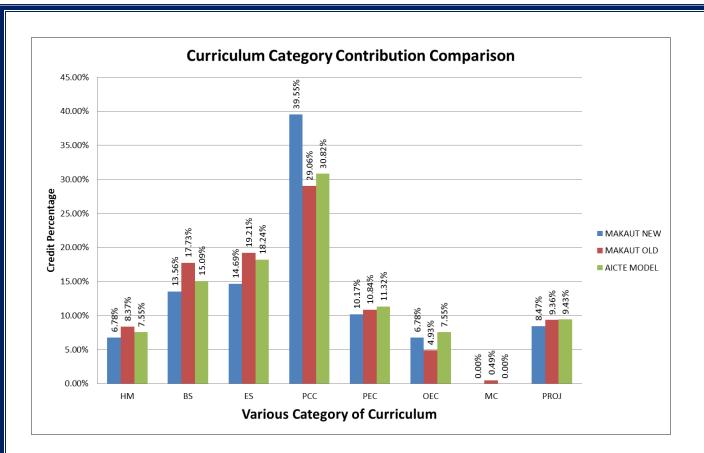


Fig 2.1.1.2 Credit percentage of the various course categories of MAKAUT (Old and New) Syllabus and AICTE Model Curriculum.

Fig 2.1.1.2 depicts the comparison of MAKAUT OLD Syllabus (before the academic session 2018-19), MAKAUT New Syllabus (Academic session 2018-19 onwards) and AICTE Model Curriculum in terms of credit percentage of the various course categories.

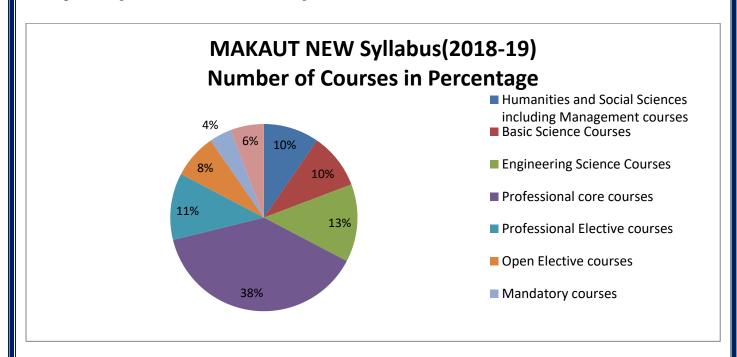


Fig 2.1.1.3. Number of courses belonging to various categorizing the New Syllabus of MAKAUT from academic year 2018-19.

Course Category Name	Category Code	No. of Courses
Humanities and Social Sciences including Management courses	HM	5
Basic Science Courses	BS	5
Engineering Science Courses	ES	7
Professional core courses	PCC	20
Professional Elective courses	PEC	6
Open Elective courses	OEC	4
Mandatory courses	MC	2
Project Works, seminar and Internship	PROJ	3

 Table 2.1.1.2 Number of courses belonging to the various course categories in new syllabus of MAKAUT from academic year 2018-19.

Table 2.1.1.2 depicts the number of courses belonging to the various course categories in new syllabus of MAKAUT from academic year 2018-19.

Course Category Name	Number of Courses	POs and Pos
Basic Science	5	PO1, PO2 PSO1,PSO3
Engineering Science	7	PO1,PO2 PSO3
Professional Core	20	PO1, PO2, PO3,PO4, PO5, PO12 PSO1, PSO2,PSO3
Humanities and Social Sciences	5	PO6, PO7, PO8, PO9, PO10
Professional Elective courses	6	PO1,PO2,PO3,PO4,PO12 PSO1, PSO2,PSO3
Open Elective courses	4	PO1,PO2,PO3, PO4, PO11, PO12 PSO1,PSO2,PSO3
Project	3	PO1 to PO12 PSO1, PSO2, PSO3
Mandatory courses	2	PO6, PO7

Table 2.1.1.3. Relevance of the various course categories with POs and PSOs.

The relevance of the various course categories to the POs and PSOs is shown in Table 2.1.1.3. After finding the relevance of course categories with POs and PSOs, the strongly and weakly addressed POs and PSOs are shown in Figure 2.1.1.4 and Figure 2.1.1.5 respectively. Further considering the entire set of courses the compliance of the curriculum with the POs and PSOs are calculated and shown in the Table 2.1.1.4.

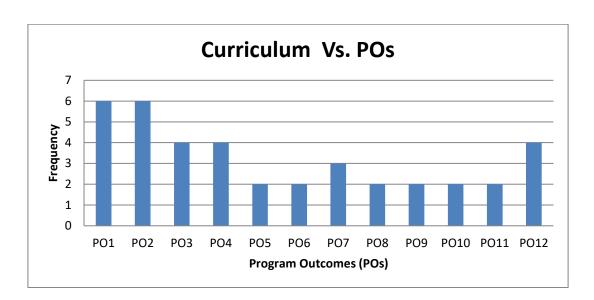


Fig 2.1.1.4. Strongly and weakly addressed POs.

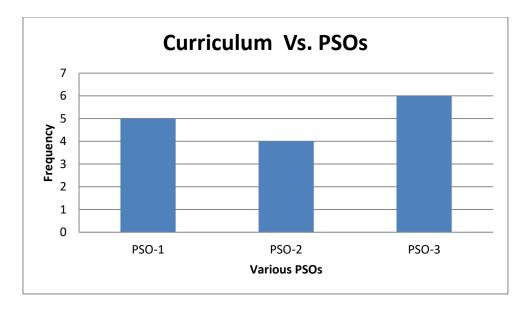


Fig 2.1.1.5. Strongly and weakly addressed PSOs.

PAPER CODE	PO 1	PO 2	PO 3	PO 4	РО 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PSO 1	PSO 2	PSO 3
ES101	~	~	-	-	-	-	-	-	~	~	-	~	-	-	-
ES191	~	~	-	-	-	-	-	~	~	~	-	~	~	\checkmark	\checkmark
HU101	-	-	-	-	-	-	\checkmark	~	~	~	-	~	-	-	-
HU181	-	-	-	-	-	-	-	-	~	~	-	~	-	-	-
M101	~	√	-	-	-	-	-	-	-	~	-	~	~	-	-
ME101	~	√	-	-	-	-	-	-	-	-	-	~	-	-	-
ME192	~	~	-	-	-	-	-	-	~	~	-	~	-	-	-
PH101	~	√	-	-	-	-	-	-	-	~	-	~	-	-	-
PH191	~	√	-	-	-	-	-	-	~	~	-	√	-	-	-
XC181	-	-	-	-	-	~	~	~	~	~	-	~	-	-	~
CH201	~	~	-	-	-	~	-	-	-	~	-	~	-	-	-
CH291	~	~	-	-	-	-	~	-	~	~	-	~	-	-	-
AEC/CSE/NE	3A – 20	22													25

CS201	~	~	~	-	-	-	-	-	~	~	-	~	~	~	√
CS291	~	~	-	-	-	-	-	-	~	~	-	~	~	~	~
ES201	~	~	-	-	-	-	-	-	~	~	-	~	-	-	-
ES291	~	~	-	-	-	-	-	-	~	~	-	~	-	-	-
M201	~	~	-	-	-	-	-	-	-	~	-	~	~	-	-
ME201	~	~	-	-	-	-	-	-	-	-	-	~	-	-	-
ME291	~	~	-	-	~	-	-	-	~	~	-	~	-	-	-
CH-301	~	~	~	~	~	-	-	-	-	~	-	~	-	-	-
CS-301	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
CS-302	~	~	~	-	-	-	-	-	~	~	-	-	~	~	~
CS-303	~	~	~	~	-	-	-	-	~	~	-	~	~	~	~
CS-391	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
CS-392	~	~	-	-	-	-	-	-	~	~	-	~	~	~	~
CS-393	~	~	~	-	-	-	-	-	~	~	-	~	~	~	~
HU-301	-	-	~	-	-	~	~	~	~	~	-	~	-	-	-
PH-301	~	~	-	-	-	-	-	-	-	~	-	~	-	-	-
PH-391	~	~	-	-	-	-	-	-	-	~	-	~	-	-	-
CS-401	~	~	~	~	-	-	-	-	-	~	-	~	~	~	√
CS-402	~	~	~	-	-	-	-	~	~	-	-	~	~	~	~
CS-403	~	~	-	~	-	-	-	-	~	~	-	-	~	~	~
CS-491	~	~	~	~	~	~	-	-	~	-	~	~	~	~	~
CS-492	~	~	~	-	-	-	-	~	-	-	~	~	~	~	~
CS-493	~	-	~	-	~	-	-	-	~	~	-	-	~	~	~
HU-481	-	-	-	-	-	-	-	-	~	~	-	~	-	-	-
M(CS)-491	~	~	~	~	~	-	-	-	-	~	-	~	~	~	~
M-401	~	~	~	~	~	~	-	-	-	~	~	~	~	~	~
MCS-401	~	~	~	~	~	-	-	-	~	~	-	~	~	~	~
CS-501	~	~	~	-	-	-	-	~	~	-	-	~	~	~	~
CS-502	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
CS-503	~	~	~	~	~	-	-	-	~	~	-	~	~	~	~
CS-504D	~	~	~	-	-	-	-	-	~	~	-	~	~	~	~
CS-591	~	~	~	-	-	-	-	~	~	-	~	~	~	~	~
CS-592	~	~	~	~	~	-	-	-	~	√	~	~	√	~	~
CS-593	~	~	~	~	~	-	-	-	-	√	-	~	√	~	~
CS-594D	~	~	~	-	~	-	-	-	~	√	~	√	√	~	~
HU-501	-	-	~	~	-	~	-	-	~	-	-	~	-	-	-
CS-601	~	~	-	-	~	-	-	-	~	~	-	-	~	~	√
CS-602	~	~	~	-	~	~	-	~	-	-	-	~	~	~	√
CS-603	~	~	-	-	-	-	-	-	~	~	-	~	~	~	~
CS-604C	~	~	-	~	-	-	-	-	-	-	-	~	~	~	~
CS-605A	~	~	~	~	~	-	-	-	~	~	-	~	~	~	~
CS-681	-	-	-	-	-	-	-	~	~	~	~	-	-	-	~
CS-691	~	~	-	-	-	-	-	-	~	~	-	~	~	~	~
CS-692	~	~	~	-	-	-	-	-	~	~	-	~	~	~	√
CS-693	~	-	-	~	~	-	-	-	~	~	-	~	~	~	√
HU-601	~	~	~	~	~	~	~	~	~	~	~	~	~	~	√
CS-701	~	~	~	-	-	-	-	~	~	-	~	-	~	~	√
CS-702	~	-	~	-	-	-	-	-	-	-	-	-	~	~	√
CS-703C	\checkmark	√	~	~	~	~	~	-	~	-	\checkmark	\checkmark	√	\checkmark	√
AEC/CSE/NB	A – 202	22													26

CS-704A	~	-	-	-	-	~	-	-	~	\checkmark	-	-	-	\checkmark	~
CS-705A	~	~	\checkmark	-	\checkmark	-	-	-	-	\checkmark	-	\checkmark	~	\checkmark	\checkmark
CS-791	~	~	\checkmark	-	-	-	-	~	~	-	~	\checkmark	~	\checkmark	\checkmark
CS-792	~	~	~	-	~	~	~	~	~	~	~	~	~	~	~
CS-793C	~	~	~	-	-	-	-	~	~	-	-	~	~	~	~
CS-794	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
CS-795A	~	-	-	-	~	~	-	-	~	~	-	~	~	~	~
HU-781	-	-	-	-	-	-	-	-	~	~	-	~	-	-	-
CS-801A	~	~	\checkmark	-	-	-	-	-	~	\checkmark	-	\checkmark	~	\checkmark	\checkmark
CS-802E	~	~	-	-	~	-	-	-	~	~	-	-	~	~	~
CS-891	~	~	~	-	~	-	-	-	-	-	-	~	~	~	~
CS-892	~	~	\checkmark	\checkmark	\checkmark	~	~	\checkmark	~	\checkmark	~	\checkmark	1	\checkmark	\checkmark
CS-893	~	~	~	-	-	-	-	-	-	~	-	~	~	~	~
HU-801A	-	-	-	-	-	-	-	-	~	~	-	~	-	-	-
	66	61	41	22	27	17	12	20	55	59	17	66	51	50	52
Compliance	88.0	81.3	54.6	29.3	36.0	22.6	16.0	26.6	73.3	78.6	22.6	88.0	68.0	66.6	69.3
%	0	3	7	3	0	7	0	7	3	7	7	0	0	7	3

Table 2.1.1.4 Compliance of the curriculum for attaining the POs and PSOs.

2.1.1.B. List the curricular gaps for the attainment of defined POs and PSOs:

If the prescribed courses in the syllabus address certain POs inadequately, then the Institute makes additional efforts to fulfill the gaps. This is done through "*GAP Analysis*" and covering topics which are "*Contents Beyond Syllabus*".

Framework for Curricular GAP Identification Process: DAC analyzed the University prescribed syllabus for different courses for the curriculum gaps based on the following inputs:-

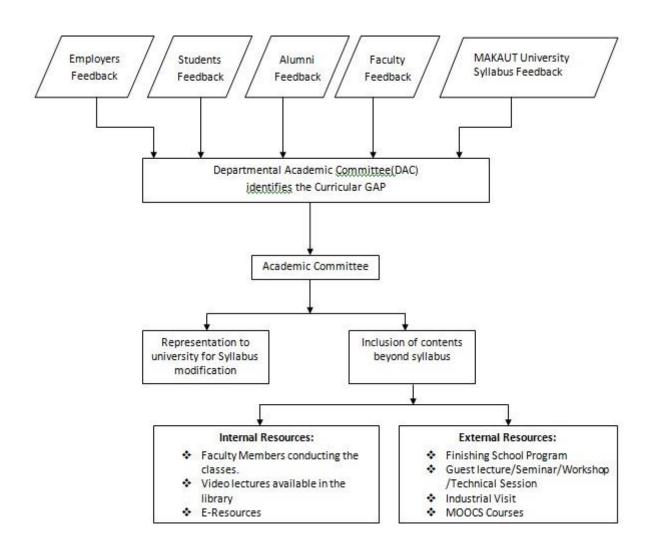
1. Inputs from the teachers: - The teachers teaching the course may suggest some topics based on his/her expertise. The teacher may also include topics to make the syllabus at par with that of other Institutes of repute for fulfilling the curricular gaps.

2. Inputs from the Industry Expert / Employers: - The Training and Placement Office (TPO) collects feedback from various employers and provides these inputs so that the curriculum is updated to meet these state-of-the-art requirements.

3. Inputs from the students:- The students undertaking the program provide the course-exit feedback for each course which also provides required inputs for identifying the curricular gaps if any.

4. Input from the alumni:- Alumni are ones who have undertaken the course and are now working in the industry/academia. So, their inputs for addition of contents in the syllabus are essential and hence their feedbacks also provide necessary inputs for identifying curricular gaps.

The following flowchart in Fig 2.1.4 depicts the process of identifying the extent of compliance of the curriculum for attaining the Program Outcomes and Program Specific Outcomes.



2.1.4 Process of identifying the extent of compliance of the curriculum for attaining the Program Outcomes and Program Specific Outcomes

Based on the feedback of different stakeholders the following actions are taken to identify the extent of compliance of the curriculum for attainment of the POs and PSOs:

• DAC evaluates the GAPs in the program curriculum and communicates it to the College Academic Committee. The College Academic Committee recommends the inclusion of certain topics beyond the curriculum and further communicates to the University syllabus committee for modification of the syllabus.

• DAC decides on topics to address the curricular gaps. The gaps are fulfilled through internal resources like lecture sessions by departmental faculty members, video lectures available in library and E-resources and external resources like skill enhancement trainings, guest lectures, seminars, workshops, technical sessions, industrial visits and MOOCS courses. Some of these processes are enlisted in Sub-Section 2.1.2.

2.1.2. State the delivery details of the content beyond the syllabus for the attainment of POs and PSOs (10)

2.1.2. A Steps taken to get identified gaps included in the curriculum. (eg. Letter to University/BOS)

ASANSOL ENGINEERING COLLEGE Kanyapur, Vivekananda Sarani, Asansol, Burdwan, PIN-713305 Phone : (0341) 225-3057, 225-2108 Telefax : 0341-225-6334 E-mail : principal.aecwb@gmail.com Website : www.aecwb.edu.in Ref. No. : AEC/PA-MAKAUT/14/6470 Date: 22.01.2014 To The Vice Chancellor West Bengal University of Technology BF-142, Salt Lake, Sector - I Kolkata - - 700064 West Bengal Sub: Request for modifying the B. Tech (CSE) syllabus based on the identified GAPs in the curriculum Respected Sir / Madam. This is to inform that the curriculum GAPs (Annexure : I) in the syllabus of B. Tech in Computer Science and Engineering have been drafted, based on the feedback collected from all stakeholders. These are finalized by Departmental Academic Committee (DAC) of CSE Department and approved by the Academic Committee (AC) of Asansol Engineering College. The draft is attached herewith, for your kind perusal. I request you to send it to the Board of Studies (BoS) for necessary action. Thanking you, Yours sincerely, 22.012014 Prof. (Dr.) B. K. De Principal Principal Asansol Engineering College

2.1.2.B Delivery details of the content beyond the syllabus:

Delivery details of content beyond syllabus is as follows:-

✓ *Skill Enhancement Training (SET)* organized by the Training and Placement Cell of the college to the students from 1^{st} year to final year which includes

- Training on soft skills.
- Training on technical skills.
- Courses suggested by industry.
- ✓ Arrangement of **Internships** for the students.
- \checkmark Arrangement of **Industrial visits** for students.
- \checkmark Arrangement of **technical grooming classes** for the students.
- ✓ Motivation for **MOOCs**.

2.1.2. C Mapping of content beyond syllabus with the POs and PSOs

Following are the identified curricular gaps based on the feedback from all stakeholders and the actions taken for the year CAYm1 (2020-2021):

S. No.	Curricular GAP	Action Taken (Technical grooming classes)	Date- Month- Year	Resource Person with Designation	Student Participation	Relevance to POs, PSOs
1	Software Engineering (CS701): More emphasis on Agile software development life cycle as it is widely adopted in the software industry.	Extra Classes taken by <i>JILE</i> qualified faculty member	03-09- 2020 and 06-09- 2020	Dr. Pintu Pal, Dept of CSE	78%	PO5, PO3, PO12 PSO2, PSO3
2	Artificial Intelligence (CS703C): Genetic Algorithm, Data visualization Techniques as they may be used for problem solving.	Extra Classes taken by concerned faculty member	06-09- 2020 and 09-09- 2020	Dr. Sandip Roy, Dept of CSE.	70%	PO1, PO3, PO5, PO12, PSO1, PSO3
4	Operating Systems (CS603): Fundamentals of Real Time Operating Systems.	Extra Classes taken by concerned faculty member	12-03- 2021	Mrs. Lumbini Bhaumik, Dept of CSE	73%	PO3, PO12 PSO2, PSO3
5	Computer Organization (PCC-	Extra Classes	03-09- 2020 and	Mr. Sabyasachi Mukherjee, Dept	71%	PO3, PO12

 	1	r	r	1	· · · · · · · · · · · · · · · · · · ·
CS302):	taken by	06-09-	of CSE		PSO1, PSO3
Introduction to	concerned	2020			
Assembly Level	faculty				
Language.	member				

Following are the identified skills to be acquired by the students *beyond curriculum*. These were imparted *by conducting* the following *Skill Enhancement Training (SET)* for the academic year CAYm1 (2020-2021).

Serial No	Topic of training	Training Dates (To- From)	Name of Trainers and their Organization	Semester	Number of students participated	PO/PSO
1	Advanced C	02.03.21 - 06.03.21	Mr. Arnab Chakraborty, TOTSOL Technologies	2nd year / 3rd Sem (2023 B.Tech)	35	PO1,PO2, PO3, PO4, PO8,PO9, PO12, PSO1, PSO2, PSO3.
2	Advanced Coding (TCS Digital Preparation)	12.06.21 - 20.06.21	Mr. Gyanendra, (Talentio Software Solutions.)	3rd Year / 6th Sem (2022 Batch)	120	PO1,PO2, PO3, PO4, PO8,PO9, PO12, PSO1, PSO2, PSO3.
3	Advanced Java Phase 1	27.01.21 - 02.02.21	Mr. Ayan Roy Mukherjee, (Micropro)	3rd Year / 5th Sem (2022 Batch)	33	PO1,PO2, PO3, PO4, PO8,PO9, PO12, PSO1, PSO2, PSO3.
4	Advanced Java Phase2	02.06.21 - 18.06.21	Mr. Ayan Roy Mukherjee, (Micropro)	3rd Year / 5th Sem (2022 Batch)	33	PO1,PO2, PO3, PO4, PO8,PO9, PO12, PSO1, PSO2, PSO3.
5	Competitive Coding	07.08.20 - 14.08.20	Mr. Ayan Roy Mukherjee, (Micropro)	Final Year/ 7th Sem (2021 Batch)	134	PO1,PO2, PO3, PO4, PO8,PO9, PO12, PSO1, PSO2, PSO3.
6	English Communication	28.06.21 - 30.06.21	Mrs. Arundhati Majumder & Md Shakir (Freelancer)	2nd year/3rd Sem (2024 batch)	183	PO8, PO9, PO10, PSO3
7	English Communication	12.04.21 - 20.04.21	Mrs Mahua Roy &Mrs Arundhati Majumder	3rd Year / 5th Sem (2022 Batch)	120	PO8, PO9, PO10, PSO3
8	Full Stack Development	12.04.21 - 01.05.21	Mr. Chandan Mukherjee (Totsol Technologies)	Final Year/ 7th & 8th Sem (2021 Batch)	129	PO1,PO2, PO3, PO4, PO8,PO9, PO12, PSO1, PSO2, PSO3.

9	Java Script Phase 1	27.01.21 - 02.02.21	Mr.Chandan Mukherjee, (TOTSOL Technologies)	3rd Year / 5th Sem (2022 Batch)	64	PO1,PO2, PO3, PO4, PO8,PO9, PO12, PSO1, PSO2, PSO3.
10	Java Script Phase2	19.04.21 - 30.04.21	Mr.Chandan Mukherjee, (TOTSOL Technologies)	3rd Year / 5th Sem (2022 Batch)	64	PO1,PO2, PO3, PO4, PO8,PO9, PO12, PSO1, PSO2, PSO3.
11	ML Using Python Phase 1	27.01.21 - 02.02.21	Mr. Arnab Chakraborty (TOTSOL Technologies)	3rd Year / 5th Sem (2022 Batch)	29	PO1,PO2, PO3, PO4, PO6, PO8,PO9, PO12, PSO1, PSO2, PSO3.
12	ML Using Python Phase2	19.04.21 - 30.04.21	Mr. Arnab Chakraborty, (TOTSOL Technologies)	3rd Year / 5th Sem (2022 Batch)	27	PO1,PO2, PO3, PO4, PO6, PO8,PO9, PO12, PSO1, PSO2, PSO3.
13	Python	02.03.21 - 06.03.21	Mr. Joyjit Guha Biswas, (ARDENT Computech Pvt. Ltd)	2nd year / 3rd Sem (2023 B.Tech)	48	PO1, PO3, PO5, PO9,PO11, PO12, PSO2, PSO3.

Following are the MOOCs attended by the studentsinCAYm1 (2020-2021).

COURSE ID	COURSE NAME	MAPPING WITH PO, PSO
noc21-cs21	Programming, Data Structures And Algorithms Using Python	PO1, PO3, PO5, PO9, PO12, PSO1, PSO2, PSO3
noc21-cs02	An Introduction to Programming through C++	PO1, PO3, PO9, PO12, PSO1,PSO2, PSO3
noc21-cs48	Advanced Graph Theory	PO1, PO3, PO9, PO12,PSO1,PSO2, PSO3
noc20-cs65	Cloud computing	PO1, PO3, PO9, PO12,PSO1,PSO2, PSO3

Fig.2.1.2.1 and Fig. 2.1.2.2 show the compliance of the SETs conducted beyond curriculum and the compliance of the MOOCs with the POs and PSOs. Some of the POs and PSOs which are not highly addressed by the curriculum are addressed through SETs and MOOCs.

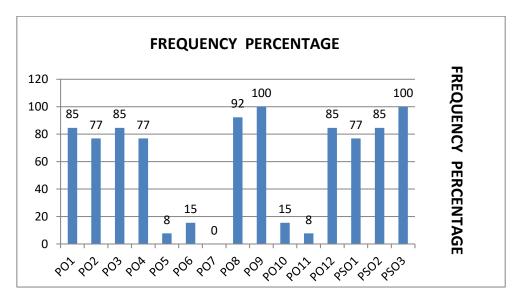


Fig. 2.1.2.1 Compliance of the SETs with POs and PSOs.

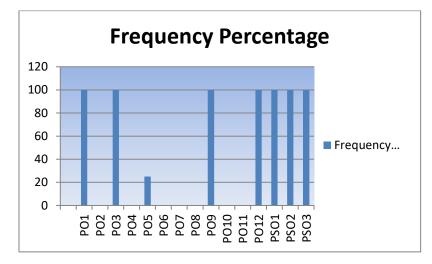


Fig. 2.1.2.2 Compliance of the MOOCs with POs and PSOs.

Following are the identified curricular gaps based on the feedback from all stakeholders and the actions taken for the year CAYm2 (2019-20):

S. No.	Curricular GAP	Action Taken (Technical grooming classes)	Date- Month- Year	Resource Person with Designation	Student Participation	Relevance to POs, PSOs
1	Software Engineering (CS701): More emphasis on Agile software development life cycle as it is widely adopted in the software industry.	Extra Classes taken by <i>JILE</i> qualified faculty member	03-09- 2019 and 06-09- 2019	Dr. Pintu Pal, Dept of CSE	78%	PO5, PO12 PSO2, PSO3
2	Artificial	Extra Classes	06-09-	Dr. Sandip	70%	PO2, PO5,
AEC/CS	E/NBA – 2022					33

	Intelligence (CS703C): Genetic Algorithm, Data visualization Techniques as they may be used for problem solving.	taken by concerned faculty member	2019 and 09-09- 2019	Roy, Dept of CSE.		PO12 PSO1, PSO2, PSO3
3	Object Oriented Programming (CS504D): Java Generics programming.	Extra Classes taken by concerned faculty member	09-09- 2019 and 16-09- 2019	Mr. Ujjwal Kumar Kamila, Dept of CSE	72%	PO2, PO12 PSO2, PSO3
4	Operating Systems (CS603): Fundamentals of Real Time Operating Systems.	Extra Classes taken by concerned faculty member	12-03- 2020	Mrs. Lumbini Bhaumik, Dept of CSE	73%	PO6, PO12 PSO2, PSO3
5.	Database Management Systems (CS601): Fundamentals of Distributed Database Systems.	Extra Classes taken by concerned faculty member	12-04- 2020 and 13-04- 2020	Mrs. Shatabdi Saha, Dept of CSE	70%	PO1, PO12 PSO2, PSO3

Following are the identified skills to be acquired by the students *beyond curriculum*. These are imparted *by conducting Skill Enhancement Training (SET)* for the academic year CAYm2 (2019-20).

Serial No	Name of Training	Trainin g Dates (To- From)	Name of Trainers and their Organizati on	Semester	Number of students participated	PO/PSO
1	ADVANCE	05-11-	40	3RD	Ms. Priyanka, Talentio	PO1,
	CODING	2019-		YEAR/6TH		PO2,
		09-11-		SEM		PO3,
		2019				PO8,PO9
						, PO12, PSO1,
						PSO1, PSO2,
						PSO2, PSO3.
2	ADVANCE	17-06-	45	3RD	Mr.Gyanendra, Talentio	PO1,
	CODING	2019 to		YEAR/6TH	2	PO2,
		04-07-		SEM		PO3,
		2019 &				PO8,PO9
		08-07-				, PO12,
		2019 to				PSO1,
		14-07-				PSO2,
		2019				PSO3.

3	ADVANCE CODING	3/2/20 to 7/2/20	30	2ND YEAR/4TH SEM	Mr.Gyanendra, Telentio	PO1, PO2, PO3, PO8,PO9 , PO12, PSO1, PSO2, PSO3.
4	ANDROID	17/2/20 to 21/2/20	43	4TH YEAR/8TH SEM	Mr.ArnabCkakrabarty,To tsol Technologies.	PO1, PO3, PO5, PO9,PO1 1, PO12, PSO2, PSO3.
5	CLOUD COMPUTING	17-06- 2019 to 22-06- 2019 & 24-06- 2019 to 29-06- 2019 & 02-07- 2019 & 04-07- 2019 & 08-07- 2019 & 12-07- 2019 & 12-07- 2019 to 14-07- 2019 & 16-07- 2019 to 17-07- 2019 to	25	3RD YEAR/6TH SEM	Mr.Avijit Aich (Ingram Micro)	PO1, PO3, PO5, PO9,PO1 1, PO12, PSO1, PSO2, PSO3
6	COMMUNICATI ON FOR BUSINESS NEEDS	15-07- 2019- 14-08- 2019	126	2 nd YEAR/3rdE M	Mr. Mohit Jain and Team (Freelancer)	PO8, PO9, PO10, PSO3
7	DATA MINING	17/2/20 to 21/2/20	41	3RD YEAR/6TH SEM	Debashis Sarbadhikary, Freelancer	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO9,PO1 1, PO12, PSO2, PSO3.

8	PYTHON	05/11/1	40	3RD	Mr. Gyanendra	PO1,
		9 to		YEAR/5TH	(Talentio) Mr.Mahendra	PO3,
		9/11/19		SEM	Dutta (Ardent)	PO5,
						PO9,PO1
						1, PO12,
						PSO2,
						PSO3.
9	PYTHON	3/2/20	61	2ND	Mr.Mahendra	PO1,
		to		YEAR/4TH	Dutta,Ardent	PO3,
		7/2/20		SEM		PO5,
		And				PO9,PO1
		10/2/20				1, PO12,
		to				PSO1,
		14/2/20				PSO2,
						PSO3
10	PYTHON(B1)	20/1/20	40	3RD	Mr.Gyandra,Telentio	PO1, PO
		to		YEAR/6TH		3, PO5,
		25/1/20		SEM		PO9,PO1
						1, PO12,
						PSO1,
						PSO2,
						PSO3
11	PYTHON(B2)	20/1/20	40	3RD	Mr.Mahendra	PO1,
		to		YEAR/6TH	Dutta,Ardent	PO3,
		25/1/20		SEM		PO5,
						PO9,PO1
						1, PO12,
						PSO1,
						PSO2,
						PSO3

Following are the **MOOCs** attended by the students in the academic year CAYm2 (2019-2020).

COURSE ID	COURSE NAME	MAPPING WITH PO, PSO
noc21-cs21	Programming, Data Structures And Algorithms Using Python	PO1, PO3, PO5, PO9, PO12, PSO1, PSO2, PSO3
noc21-cs02	An Introduction to Programming through C++	PO1, PO3, PO9, PO12, PSO1,PSO2, PSO3
noc21-cs48	Advanced Graph Theory	PO1, PO3, PO9, PO12,PSO1,PSO2, PSO3
noc20-cs65	Data Science for Engineers	PO1, PO3, PO9, PO5, PO12, PSO1, PSO2, PSO3
noc19-hs33	Soft skills - Online	PO8, PO9, PO10, PSO3

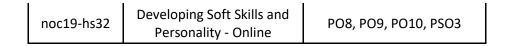


Fig.2.1.2.3 and Fig. 2.1.2.4 show the compliance of the SETs conducted beyond curriculum and the compliance of the MOOCs with the POs and PSOs. Some of the POs and PSOs which are not highly addressed by the curriculum are addressed through SETs and MOOCs.

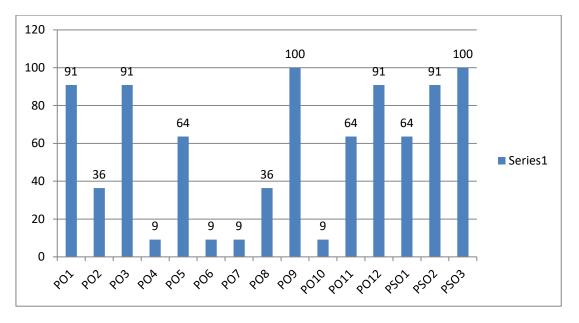


Fig. 2.1.2.3 Compliance of the SETs with POs and PSOs.

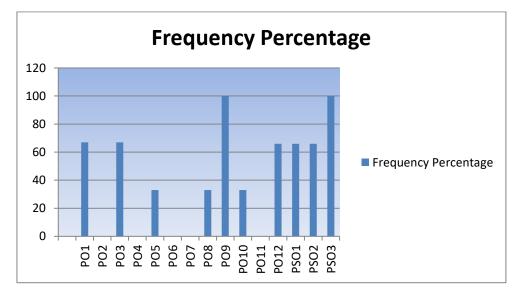


Fig. 2.1.2.4 Compliance of the MOOCs with POs and PSOs.

Following are the identified curricular gaps based on the feedback from all stakeholders and the actions taken for the year CAYm3 (2018-19).

S. No	GAP	Action Taken (Technica l grooming	Date- Month- Year	Resource Person	Student Participatio n	Relevance to POs, PSOs
AEC/	CSE/NBA – 2022					37

		class)				
1	Artificial Intelligence (CS703C): Genetic Algorithm, Data visualization Techniques as they may be used for problem solving.	Extra Classes taken by concerned faculty member	22/09/201 8	Mr. Sandip Roy, Dept of CSE	70%	PO2, PO5, PO12 PSO1, PSO2, PSO3
2	Operating Systems(CS603) - Other Page replacement Algorithms - Second Chance(SC), Not Recently Used(NRU) algorithms.	Extra Classes taken by concerned faculty member	20-03- 2019	Mrs. Lumbini Bhaumik, Dept of CSE	71%	PO4 PSO1,PSO2,PSO 3
3	Database Management Systems (CS601): Fundamentals of Distributed Database Systems.	Extra Classes taken by concerned faculty member	10/04/201 9	Mrs. Shatabdi Saha, Dept of CSE	70%	PO1, PO12 PSO2, PSO3

Following are the identified skills to be acquired by the students *beyond curriculum*. These are imparted *by conducting Skill Enhancement Training (SET)* for the academic year CAYm2 (2018-19).

Serial No	Name of Training	Training Dates (To- From)	Name of Trainers and their Organization	Semes ter	Number of students particip ated	PO/PSO
1	Ruby on rails	25/07/18- 27/07/18,30/07/18,31/07/1 8,01/08/18-02/08/18	Debashis Sarbadhikary, Freelancer	4th sem (B1)	36	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO9,PO11, PO12, PSO1, PSO2, PSO3

	1	Γ	1			
2	Ruby on	03/08/18-	Debashis	4th	38	PO1, PO2,
	rails	04/08/18,06/08/18-	Sarbadhikary,	sem		PO3, PO4,
		10/08/18	Freelancer	(B3)		PO5, PO6,
						PO7,
						PO9,PO11,
						PO12, PSO1,
						PSO2,
						PSO3
3	Ruby on	25/07/18-	Mahendra	4th	31	PO1, PO2,
U U	rails	27/07/18,30/07/18,31/07/1	Dutta,Ardent	sem	01	PO3, PO4,
		8,01/08/18-02/08/18	,	(B2)		PO5, PO6,
				· · ·		PO7,
						PO9,PO11,
						PO12,
						PSO1,
						PSO2,
					• -	PSO3
4	Ruby on	03/08/18 -	Mahendra	4th	29	PO1, PO2,
	rails	04/08/18,06/08/18 -	Dutta,Ardent	sem(B		PO3, PO4,
		10/08/18		4)		PO5, PO6, PO7,
						PO7, PO9,PO11,
						PO12,
						PSO1,
						PSO2,
						PSO3
5	Advanced C	23/07/18-24/07/18	Mr.Chandan	2nd	127	PO1, PO2,
			Mukherjee,	sem		PO3,
			Totsol			PO8,PO9,
			Technologies			PO12,
						PSO1,
						PSO2, PSO3.
6	ADVANCE	14/1/19 to 19/1/19 and	Mr.Gyanendra,T	5th	65	PO1, PO2,
0	DATA	28/1/19 to $2/2/19$	elentio	sem	05	PO3,
	STRUCTUR			Sem		PO4,PO8,
	E					PO9,
						PO12,
						PSO1,
						PSO2,
						PSO3
7	ADVANCE	14/1/19 to 19/1/19 and	Mr.Ayan Roy	7th	65	PO1, PO2,
	JAVA	28/1/19 to 2/2/19	Mukherjee	sem		PO3,
			Miropro			PO8,PO9,P
						O11, PO12, PSO1,
						PSO1, PSO2,
						PSO3.
8	ADVANCE	14/1/19 to 19/1/19 and	Mr.Suraj,Talenti	7 th sem	60	PO1, PO2,
	PYTHON	28/1/19 to 2/2/19	0			PO3, PO4,
						PO9,
						PO11,PO1
AEC/CSE/N	NBA – 2022					39
,						55

						2, PSO2, PSO3.
						rs03.
9	WEB DEVELOP MENT USING AWS	18/4/19 to 28/4/19	Mr.Avijit Aich(Ingram Micro)	8 th sem	120	PO1, PO3, PO4, PO6, PO7, PO9,PO11, PO12, PSO1, PSO2, PSO3.
10	Cyber Security	23/4/19 to 27/4/19 and 2/5/2019 to 3/5/19	Mr.Chandan Mukherjee,Tots ol Technologies	8 th sem	32	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO9,PO11, PO12, PSO2, PSO3.

Following are the MOOCs attended by the students in the academic year CAYm3 (2018-2019).

COURSE ID	COURSE NAME	MAPPING WITH PO,PSO
noc21-cs21	Programming, Data Structures And Algorithms Using Python	PO1, PO3, PO5, PO9, PO12, PSO1, PSO2, PSO3
noc21-cs02	An Introduction to Programming through C++	PO1, PO3, PO9, PO12, PSO1,PSO2, PSO3
noc19-cs31	Introduction to Internet of Things	PO1, PO3, PO9, PO5, PO12, PSO2, PSO3
noc20-cs65	Data Science for Engineers	PO1, PO3, PO9, PO5, PO12, PSO1, PSO2, PSO3
noc19-hs22	Enhancing Soft Skills and Personality	PO9, PO10, PSO3
noc19-hs32	Developing Soft Skills and Personality - Online	PO8, PO9, PO10, PSO3
noc19-hs21	Speaking Effectively	PO8, PO9, PO10, PSO3

Fig.2.1.2.5 and Fig. 2.1.2.6 show the compliance of the SETs conducted beyond curriculum and the compliance of the MOOCs with the POs and PSOs. Some of the POs and PSOs which are not highly addressed by the curriculum are addressed through SETs and MOOCs.

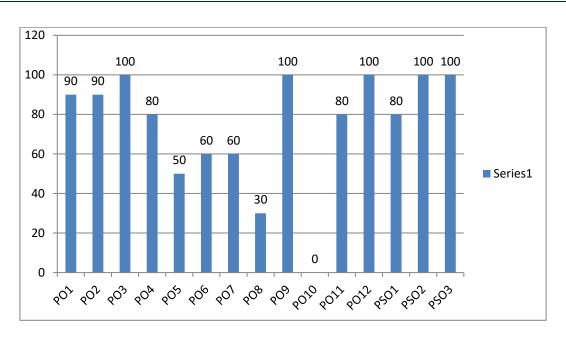


Fig. 2.1.2.5 Compliance of the SETs with POs and PSOs.

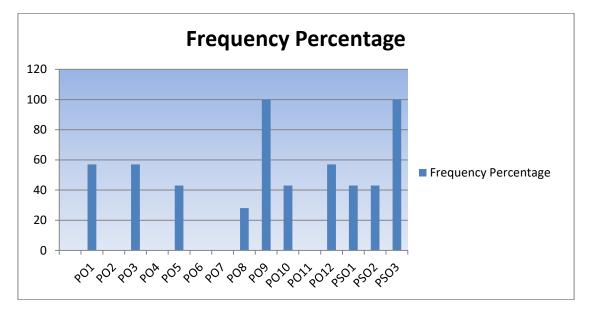


Fig. 2.1.2.6 Compliance of the SETs with POs and PSOs.

2.2. Teaching - Learning Processes (100)

2.2.1. Describe Processes followed to improve quality of Teaching & Learning (25)

The roadmap for Teaching and Learning Quality Improvement focus on following criteria:-

Academic Calendar:

The departmental academic calendar is prepared based on the institute academic calendar which is in adherence to the academic calendar prescribed by the University. The calendar of events includes enrollment of courses, internal tests, parent-teacher meet, webinars, various industrial visits, guest lectures, technical competitions and short term courses.

Timetable:

The time table is prepared by the time table coordinator. The academic calendar and time table are shared with the students.

Course File:

Faculty member prepares the course file of their assigned course containing the following documents:

- a. Vision and Mission of Institute.
- b. Vision and Mission of Department.
- c. Syllabus of the course.
- d. Course outcomes (COs).
- e. Program outcomes (POs).
- f. Program Specific Outcomes (PSOs).
- g. Program Educational Objectives (PEOs).
- h. CO-PO and CO-PSO mapping.
- i. Session Plan.
- j. Lecture Plan.
- k. Departmental Academic Calendar.
- l. Individual Time Table.
- m. Internal Question Papers.
- n. Assignments.
- o. University Question papers.
- p. Important lecture notes.
- q. Curriculum gap and action taken report.

2.2.1.A Adherence to Academic calendar (University, Institute and Department calendar):

Department normally adheres to the institute academic calendar which is prepared on the basis of University academic calendar. Lecture plan with course outcomes are prepared by the respective faculty member before the commencement of the semester, duly approved by the Head of the department and made available to the students.

MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY

Academic Calendar 2019-20

	Events	For Ensuring New Batch	For Continuing Batcl							
Odd Semester 2019-20										
1	Commencement of University Registration process online for newly admitted students	July 22, 2019	N.A.							
2	Admission activities (for ensuing new students) to be completed by	July 31, 2019	N.A.							
3	Commencement of Academic Programme	August 1, 2019	July 15, 2019							
4	Registration activities (for ensuing newly admitted students for the session 2019-20) will be completed by	August 25, 2019	N.A.							
5	Enrolment of students (for each semester)	August 14, 2019 to August 30, 2019								
6 (a)	Last date of continuous evaluation (Phase I)	August 31, 2019								
6 (b)	Last date of continuous evaluation (Phase II)	September 30, 2019								
6 (c)	Last date of continuous evaluation (Phase III)	October 31, 2019								
6 (d)	Last date of continuous evaluation (Phase IV)	November 30, 2019								
7 (a)	Practical Examinations & Viva-Voce	November 22 to 30,	, 2019							
7 (b)	Theory Examinations	December 4 to 21, 2	2019							
8	Inter Semester Break	December 22, 2019	to January 12, 2020							
9	9 Publication of Result Results will be announced in the University website in February 2020									
10 (a)	Last date of reporting on Mentoring (Phase I)	30ª September 2019)							
10 (b)	Last date of reporting on Mentoring (Phase II)	30 th December 2019								

Departmental calendar of ODD Semester 2019

Asansol Engineering College

ACADEMIC CALENDAR

Department of Computer Science and Engineering

Odd Semester 2019 [July to December]

Day	Month	Day	Routine Activity	Particulars
1	1 st July	Monday		Semester Break / Training
2	2 nd July	Tuesday		Semester Break / Training
3	3 rd July	Wednesday		Semester Break / Training
4	4 th July	Thursday		Semester Break / Training
5	5 th July	Friday		Semester Break / Training
6	6 th July	Saturday	Weekly off	
7	7 th July	Sunday	Weekly off	
				Commencement of Ongoing Semester
8	8 th July	Monday	Teaching Day 01	
				Students Training
				Registration ongoing batch
9	9 th July	Tuesday	Teaching Day 02	
				Students Training
				Registration ongoing batch]
10	10 th July	Wednesday	Teaching Day 03	Students Training
				Madli Daire Madia Gada and GLas 2010
				Monthly Review Meeting for the month of June 2019
11	1 1 th T 1		Techine Dr. 04	Registration ongoing batch
11	11 th July	Thursday	Teaching Day 04	Students Training
				Students Training
10	1 oth T 1		T 11 D 65	Registration ongoing batch
12	12 th July	Friday	Teaching Day 05	Students Training
				Students Training
13	13 th July	Saturday	Weekly off	

14	14 th July	Sunday	Weekly off	
				Announcement of End Semester Result
				(Even Semester-Jan to June 2019)
15	15 th July	Monday	Teaching Day 06	Registration ongoing batch
				Students Training
				Parent teacher meeting
	, at a			Registration ongoing batch
16	16 th July	Tuesday	Teaching Day 07	
				Students Training
				Registration ongoing batch
17	17 th July	Wednesday	Teaching Day 08	
				Students Training
10	1 oth 1 1			
18	18 th July	Thursday	Teaching Day 09	Students Training
19	19 th July	Friday	Teaching Day 10	Students Training
20	20 th July	Saturday	Weekly off	Students Training
21	21 st July	Sunday	Weekly off	
	-			
22	22 nd July	Monday	Teaching Day 11	
23	23 rd July	Tuesday	Teaching Day 12	
24	24 th July	Wednesday	Teaching Day 13	
25	25 th July	Thursday	Teaching Day 14	Distribution of project to students
26	26 th July	Friday	Teaching Day 15	Distribution of project to students
27	27 th July	Saturday	Weekly off	
28	28 th July	Sunday	Weekly off	
				Commencement of Academic Session for New Batch
	anth I i			Commencement of Academic Session for New Batch
29	29 th July	Monday	Teaching Day 16	
				Induction Program for New Batch
30	30 th July	Tuesday	Teaching Day 17	Induction Program for New Batch
30	JU July	Tuesuay	Teaching Day 17	Monthly Report Submission

31	31 st July	Wednesday	Teaching Day 18	Induction Program for New Batch
32	1 st Aug	Thursday	Teaching Day 19	Induction Program for New Batch
33	2 nd Aug	Friday	Teaching Day 20	Induction Program for New Batch
34	3 rd Aug	Saturday	Weekly off	
35	4 th Aug	Sunday	Weekly off	
36	5 th Aug	Monday	Teaching Day 21	Induction Program for New Batch
37	6 th Aug	Tuesday	Teaching Day 22	Induction Program for New Batch Mentorship related Document Preparation as per MAKAUT
38	7 th Aug	Wednesday	Teaching Day 23	Induction Program for New Batch Monthly Review Meeting for the month of July 2019
39	8 th Aug	Thursday	Teaching Day 24	Induction Program for New Batch
40	9 th Aug	Friday	Teaching Day 25	Induction Program for New Batch
41	10 th Aug	Saturday	Weekly off	
42	11 th Aug	Sunday	Weekly off	
43	12 th Aug	Monday	Holiday	Id-Ul-Zoha
44	13 th Aug	Tuesday	Teaching Day 26	
45	14 th Aug	Wednesday	Teaching Day 27	
46	15 th Aug	Thursday	Holiday	Independence Day
47	16 th Aug	Friday	Teaching Day 28	
48	17 th Aug	Saturday	Weekly off	
49	18 th Aug	Sunday	Weekly off	
50	19 th Aug	Monday	Teaching Day 29	Initiative to open Student Wing of CSI
51	20 th Aug	Tuesday	Teaching Day 30	
52	21 st Aug	Wednesday	Teaching Day 31	
53	22 nd Aug	Thursday	Teaching Day 32	
54	23 rd Aug	Friday	Holiday	Janmashtami
55	24 th Aug	Saturday	Weekly off	
56	25 th Aug	Sunday	Weekly off	
57	26 th Aug	Monday	Teaching Day 33	Monthly Report Submission

58	27 th Aug	Tuesday	Teaching Day 34	[Distribution of Topic for Debate/ PPT/ GD]
59	28 th Aug	Wednesday	Teaching Day 35	
60	29 th Aug	Thursday	Teaching Day 36	
61	30 th Aug	Friday	Teaching Day 37	
62	31 st Aug	Saturday	Weekly off	Seminar –CSE
63	1 st Sept	Sunday	Weekly off	
64	2 nd Sept	Monday	Teaching Day 38	
65	3 rd Sept	Tuesday	Teaching Day 39	
66	4 th Sept	Wednesday	Teaching Day 40	
				Submission of Q paper-Unit Test 1]
67	5 th Sept	Thursday	Teaching Day 41	
				Distribution 1 st Project]
				Submission of Q paper-Unit Test 1
68	6 th Sept	Friday	Teaching Day 42	
				Monthly Review Meeting for the month of Aug 2019
69	7 th Sept	Saturday	Weekly off	
70	8 th Sept	Sunday	Weekly off	
71	9 th Sept	Monday	Teaching Day 43	
72	10 th Sept	Tuesday	Holiday	Muhharam
73	11 th Sept	Wednesday	Teaching Day 44	University Subject Tagging
74	12 th Sept	Thursday	Teaching Day 45	1 st Unit Test
75	13 th Sept	Friday	Teaching Day 46	1 st Unit Test
76	14 th Sept	Saturday	Teaching Day 47	1 st Unit Test
77	15 th Sept	Sunday	Weekly off	
78	16 th Sept	Monday	Teaching Day 48	
79	17 th Sept	Tuesday	Holiday	Viswakarma Puja
80	18 th Sept	Wednesday	Teaching Day 49	
81	19 th Sept	Thursday	Teaching Day 50	

82	20 th Sept	Friday	Teaching Day 51	
83	21 st Sept	Saturday	Weekly off	
84	22 nd Sept	Sunday	Weekly off	
85	23 rd Sept	Monday	Teaching Day 52	Monthly Report Submission
86	24 th Sept	Tuesday	Teaching Day 53	[Distribution of Answer script- 1 st Unit Test]
87	25 th Sept	Wednesday	Teaching Day 54	[Distribution of Answer script- 1 st Unit Test]
88	26 th Sept	Thursday	Teaching Day 55	[Distribution of Answer script- 1 st Unit Test]
89	27 th Sept	Friday	Teaching Day 56	[1st Unit Test Result] [1 st review of Project]
90	28 th Sept	Saturday	Holiday	Mahalaya
91	29 th Sept	Sunday	Weekly off	
92	30 th Sept	Monday	Teaching Day 57	[Innovative Idea Proposal Submission at Dept]
93	1 st Oct	Tuesday	Teaching Day 58	
94	2 nd Oct	Wednesday	Holiday	Birthday of Gandhiji
95	3 rd Oct	Thursday	Day off	Day off
96	4 th Oct	Friday	Holiday	Holiday
97	5 th Oct	Saturday	Holiday	Holiday
98	6 th Oct	Sunday	Holiday	Holiday
99	7 th Oct	Monday	Holiday	Holiday
100	8 th Oct	Tuesday	Holiday	Holiday
101	9 th Oct	Wednesday	Holiday	Holiday
102	10 th Oct	Thursday	Holiday	Holiday
103	11 th Oct	Friday	Holiday	Holiday
104	12 th Oct	Saturday	Holiday	Holiday
105	13 th Oct	Sunday	Holiday	Holiday
106	14 th Oct	Monday	Teaching Day 59	Monthly Review Meeting for the month of Sept. 2019
107	15 th Oct	Tuesday	Teaching Day 60	
108	16 th Oct	Wednesday	Teaching Day 61	
109	17 th Oct	Thursday	Teaching Day 62	
110	18 th Oct	Friday	Teaching Day 63	
		1		

	1			
112	20 th Oct	Sunday	Weekly off	
113	21 st Oct	Monday	Teaching Day 64	
114	22 nd Oct	Tuesday	Teaching Day 65	Mentee tagging in MAKAUT WEBSITE
115	23 rd Oct	Wednesday	Teaching Day 66	
116	24 th Oct	Thursday	Teaching Day 67	
117	25 th Oct	Friday	Teaching Day 68	[Innovative Idea competition of all Dept]
118	26 th Oct	Saturday	Weekly off	
119	27 th Oct	Sunday	Holiday	Kali Puja/Diwali
120	28 th Oct	Monday	Holiday	Immersion of Goddess Kali
121	29 th Oct	Tuesday	Holiday	Bhatridwitiya
122	30 th Oct	Wednesday	Teaching Day 69	[Submission of 2 nd Project]
122	50 001	wednesday	Teaching Day 09	[Final Evaluation of Innovative Idea competition]
123	31 st Oct	Thursday	Teaching Day 70	[Choice of Electives for next Sem]
124	1 st Nov	Friday	Teaching Day 71	[Submission of Requisition for Infrastructure and Manpower]
125	2 nd Nov	Saturday	Weekly off	
126	3 rd Nov	Sunday	Weekly off	
127	4 th Nov	Monday	Teaching Day 72	
128	5 th Nov	Tuesday	Teaching Day 73	
129	6 th Nov	Wednesday	Teaching Day 74	
130	7 th Nov	Thursday	Teaching Day 75	Monthly Review Meeting for the month of Oct. 2019
131	8 th Nov	Friday	Teaching Day 76	
132	9 th Nov	Saturday	Weekly off	
133	10 th Nov	Sunday	Weekly off	
134	11 th Nov	Monday	Teaching Day 77	
135	12 th Nov	Tuesday	Holiday	Guru Nanak's Birthday
136	13 th Nov	Wednesday	Teaching Day 78	[2nd Unit Test] [Collection of Student feedback]
137	14 th Nov	Thursday	Teaching Day 79	[2nd Unit Test]

				[Collection of Student feedback]
				[2nd Unit Test]
138	15 th Nov	Friday	Teaching Day 80	[Collection of Student feedback]
				Semester Exam Form Filling up ends
139	16 th Nov	Saturday	Weekly off	
140	17 th Nov	Sunday	Weekly off	
141	18 th Nov	Monday	Teaching Day 81	Remedial Class
142	19 th Nov	Tuesday	Teaching Day 82	Remedial Class
143	20 th Nov	Wednesday	Teaching Day 83	Remedial Class
144	21 st Nov	Thursday	Teaching Day 84	Remedial Class
145	22 nd Nov	Friday	Teaching Day 85	Remedial Class
146	23 rd Nov	Saturday	Weekly off	Parent-Teacher Meeting - II]
147	24 th Nov	Sunday	Weekly off	
148	25 th Nov	Monday	Teaching Day 86	Remedial Class
149	26 th Nov	Tuesday	Teaching Day 87	Remedial Class [Distribution Answer script of 2 nd Unit Test]
150	27 th Nov	Wednesday	Teaching Day 88	Remedial Class [Distribution Answer script of 2 nd Unit Test]
151	28 th Nov	Thursday	Teaching Day 89	Remedial Class
151	28 1100	Thursday	Teaching Day 87	[Distribution Answer script of 2 nd Unit Test]
152	29 th Nov	Friday	Teaching Day 90	Remedial Class
				[Publication of 2 nd Unit Test Result]
153	30 th Nov	Saturday	Weekly off	
154	1 st Dec	Sunday	Weekly off	
155	2 nd Dec	Monday		[Theory Examination]
156	3 rd Dec	Tuesday		[Theory Examination]
157	4 th Dec	Wednesday		[Theory Examination]
158	5 th Dec	Thursday		[Theory Examination]
159	6 th Dec	Friday		[Theory Examination]

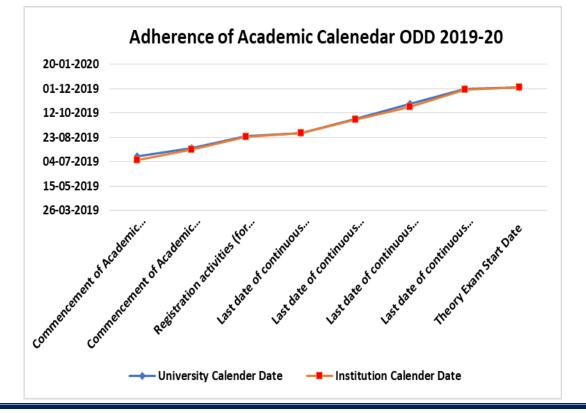
AEC/CSE/NBA - 2022

	1	1		
				Monthly Review Meeting for the month of Nov.2019
160	7 th Dec	Saturday		[Theory Examination] - If required
161	8 th Dec	Sunday	Weekly off	
162	9 th Dec	Monday		[Theory Examination]
163	10 th Dec	Tuesday		[Theory Examination]
164	11 th Dec	Wednesday		[Theory Examination]
165	12 th Dec	Thursday		[Theory Examination]
166	13 th Dec	Friday		[Theory Examination]
167	14 th Dec	Saturday		[Theory Examination]- If required
168	15 th Dec	Sunday	Weekly off	
169	16 th Dec	Monday		[Practical Examination & Viva Voce]
170	17 th Dec	Tuesday		[Practical Examination & Viva Voce]
171	18 th Dec	Wednesday		[Practical Examination & Viva Voce]
				[Practical Examination & Viva Voce]
172	19 th Dec	Thursday		Lesson Plan Submission for next semester
				Publication of time table for Even Sem 2020
173	20 th Dec	Friday		[Practical Examination & Viva Voce]
174	21 st Dec	Saturday	Weekly off	[Practical Examination & Viva Voce]- If required
175	22 nd Dec	Sunday	Weekly off	
176	23 rd Dec	Monday	Activities	[Practical Examination & Viva Voce]- If required
177	24 th Dec	Tuesday	Activities	Alumni Meet
178	25 th Dec	Wednesday	Holiday	Christmas Day
179	26 th Dec	Thursday		Semester Break
180	27 th Dec	Friday		Semester Break
181	28 th Dec	Saturday	Weekly off	Semester Break
182	29 th Dec	Sunday	Weekly off	Semester Break
183	30 th Dec	Monday		Semester Break

			Semester Break
184	31 st Dec	Tuesday	

Adherence to academic calendar

Academic Activities (University)	University Calendar Date	Institution Calendar Date
Commencement of Academic		
Program (Continuing Batch)	15-07-2019	08-07-2019
Commencement of Academic		
Program (New Batch)	01-08-2019	29-07-2019
Registration activities (for ensuing newly admitted students for the session 2019-20) will be completed		
by	25-08-2019	24-08-2019
Last date of continuous evaluation (Phase I)	31-08-2019	31-08-2019
Last date of continuous evaluation (Phase II)	30-09-2019	29-09-2019
Last date of continuous evaluation (Phase III)	31-10-2019	25-10-2019
Last date of continuous evaluation		
(Phase IV)	30-11-2019	29-11-2019
Theory Exam Start Date	04-12-2019	04-12-2019



AEC/CSE/NBA - 2022

2.2.1.B Use of various Instructional Methods and Pedagogical initiatives

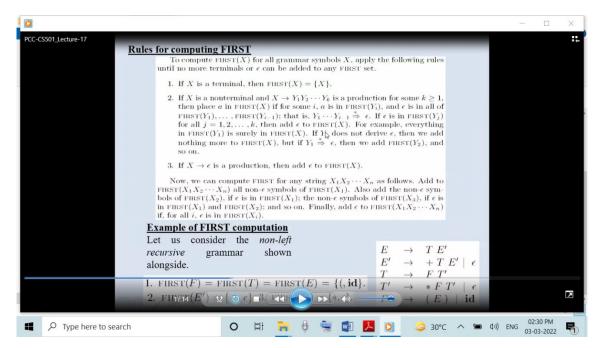
For Students:

AEC Academic Resources (Digital): All the students are provided with user-id and password to access digital resources such as video lectures/PPTs uploaded by faculty members.

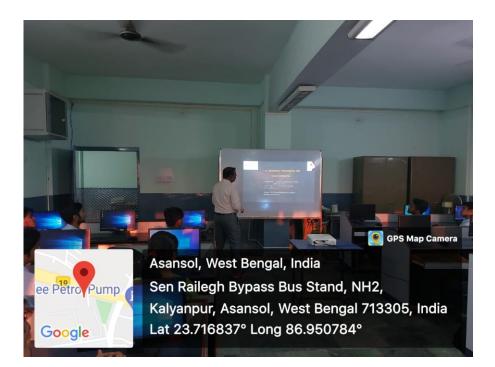
The link of the above digital resources is given below:

http://112.133.209.26:82/Forms/frmLogin.aspx?branch_id=401

A snapshot of a video lecture is displayed below:



Skill Enhancement Training Organized by T&P: During the period of study in the program of Computer Science and Engineering, the students undergo various Skill Enhancement Trainings (SETs). These are conducted for acquiring technical skills beyond curriculum so that they can face interviews with confidence.



Innovative Projects: Some bright students undertake innovative projects under the supervision of faculty members.



Recent innovative project named "**Non-contact switching system**" developed by **Kamran Hassan**, student of CSE Department, 2019-23 batch under the guidance of Dr. Sandip Roy, Assoc. Prof. of CSE Department. The technology was transferred to Victor Engineering Company of Assam for 100,000 (one lakh only). The technology transfer letter is displayed below.

	Kanyapur, Vivekananda Sarani, Asansol, Burdwan, PIN-713305 Phone (0341) 225-3057, 225-2108 Telefax : 0341-225-6334 E-mail : principal.aecwb@gmail.com Website : www.aecwb.edu.in	
	Date:- 20.08.2020	
SUB : TECHNOLOGY '	TRANSFER CERTIFICATE OF NON-CONTACT HING SYSTEM TECHNOLOGY	
TECHNOLOGY TRAN NON-CONTACT SWITC SPECIALLY FOR DC	ERTIFY THAT, WE HAVE FAVOURED SFER AND TECHNICAL KNOW-HOW OF OUR CHING SYSTEM TECHNOLOGY (TOUCH-LESS) MESTIC ELECTRICALS AND FOR VARIOUS ANCES WITH AUTOMATION SYSTEM TO –	
M/S. 7	VICTOR ENGINEERING CO.	
A.T. ROAD, MAKUM JUNCTION, DIST TINSUKIA, ASSAM - 786170,		
WHICH HAS BEEN DEVELOPED BY OUR		
ASANSOL ENGINEEI	RING COLLEGE, ASANSOL, (WEST BENGAL).	
	BEEN ISSUED WITH EFFECT FROM 20-08-2020 DIA & IT IS SOLELY GIVEN TO M/S. VICTOR ENGINEERING CO.	
Mr. Sujit Kishor Chakraborty Mr. Kam	Orn 1-10-14O/161 Fran Hassan Mr. Soumen Sen Project Head, Coordinator Hard ware Club Dr. (Prof)#7 Bhattacharya Principal Principal Principal Principal Principal Principal Principal Principal Principal Principal Principal Principal Principal	

Online Courses and Certifications: Students are motivated to enroll for various online courses offered by NPTEL, Coursera etc. College provides requisite support system for the students participating in these courses to enhance their skills.

NPTEL local chapter started at Asansol Engineering College in 2017. After that initiative, semester wise good number of students have opted for these courses for upgrading themselves. The Institute has secured good ranking from IIT Madras. The rating certificate of the college is displayed below.



COURSERA courses for MOOCS started in Asansol Engineering College from September, 2021. It is mandatory for all B.Tech, Computer Science & Engineering students to complete one course in each semester. It is absolutely free for students.

In-house LMS(Bluowl):

A learning management system (LMS) is a software application that provides a large and indispensable set of features to support online educational activities. Asansol Engineering College has its own LMS "Bluowl", which is used by the departmental faculty members to organize materials and conducting online classes.

For Faculty Members:

For enhancing the subject and technical knowledge of teachers, the following programs are arranged by the department: -

- Domain specific workshops/seminars
- Faculty development Program (FDP)
- Short term training program (STTP)

2.2.1.C Methodologies to support weak and bright students:

The department conducts formal evaluation through internal class tests and assignments. The results are published in the departmental notice board. Result analysis leads to the identification of weak and bright students. Students with less than 60% marks are categorized as weak and the rest are categorized as bright. The process for identification and the actions taken thereafter are shown in Figure 2.2.1.

Actions taken

For the weak students the following actions are taken:

• Peer teaching: The bright students are motivated to clear doubts of the weaker students.

- Mentoring: The mentors motivate the weaker students to do better in the future tests.
- Intimation to parents: The parents of the weaker students are intimated by the Department so that they are aware of their ward's poor performance
- Conducting extra classes: Individual subject teachers also take extra classes to clear the doubts of the weaker students.

For bright students, the following actions are taken:

- Motivate to participate in inter-college technical events.
- Motivate to take up research-based projects in final year.
- Motivate for higher studies.

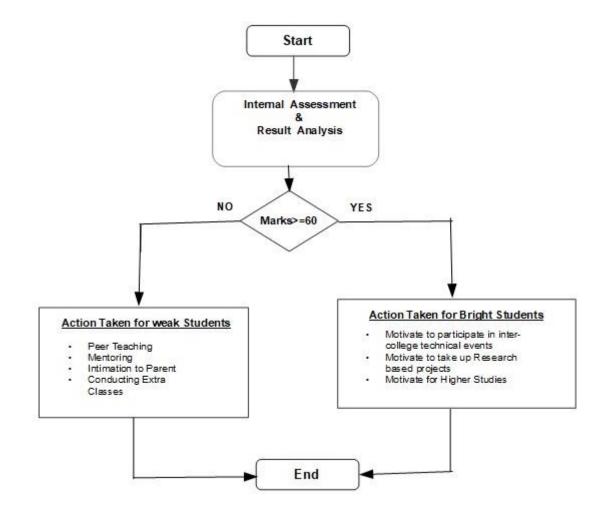


Figure 2.2.1 Process of identification of weak and bright students and actions taken.

2.2.1.D Quality of classroom teaching (Observation in a class)

The quality of classroom teaching is ensured by the following:

Quality of Teaching Delivery:

AEC/CSE/NBA – 2022

The most vital part of the quality teaching and learning is the instructional delivery. The following broad components contribute to the effective instructional delivery: -

Outcome based teaching-learning: The faculty members teaching every course (theory and laboratory) identifies the course outcomes and explain the same to the students. They prepare the lecture plan to achieve course outcomes. The course outcomes are prepared and mapped to the POs and PSOs of the program.

Academic Infrastructure: Institute offers modern, well equipped comfortable class rooms and laboratories. Arrangement is made to put students in smaller groups in the laboratory to make the learning process more effective.

Interactive Lecture Delivery: Students are encouraged to interact during the lecture hours to clarify their doubts. Further, the participation of students in the class is enhanced through pedagogical initiatives like quizzes, brain storming, assignments etc.

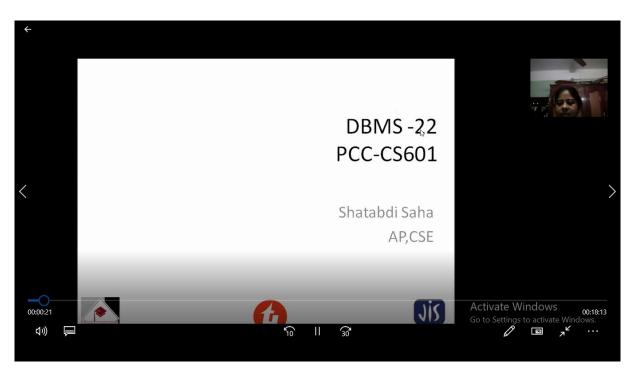


Fig. 2.2.1.1 shows the example of online class during the pandemic.

Fig. 2.2.1.1 online class during the pandemic.

2.2.1. E. Conduction of experiments (Observation in laboratory):

The quality of the laboratory classes are ensured through the following.

Experimental Setups for conducting the experiments: Curriculum stipulates lab courses from 2nd semester to 7th semester and project in 8th semester. Every lab course has its own manual. Lab assignments are given to students. The submitted lab files are checked by the faculty and the observations are recorded and

maintained. A faculty member and a technical staff conducted a practical classes is shown below in Fig.2.2.1.2.



Fig. 2.2.1.2 Faculty and Technical staff in a Laboratory Class.

2.2.1. F Continuous Assessment in laboratory: Each laboratory course has its own outcomes. Laboratory assignments are given to evaluate students on these outcomes. Continuous assessment is done with two laboratory assignments of 20 marks each. The assignments are evaluated on the basis of submission of laboratory records, understanding of the experiment through oral viva voce questions, participation in performing the experiments etc. The rubrics for evaluation is shown below.

1. Active participation in laboratory. (4 marks)

2. Timely completion of assignments. (4 marks)

- 3. Punctuality (4 marks)
- 3. Preparation of laboratory report. (4 marks)
- 4. Viva-voce (4 marks)

2.2.1. G. Student feedback of teaching learning process and actions taken: At the end of the semester, all the students are required to fill online feedback-form for apprising the faculty for both teaching course content in a scale of 1 to 10. The feedback is used for following purposes:

- Faculty uses the feedback to improve or strengthen the content delivery style and the instructional material related to the course.
- Used as an indirect assessment tool for evaluation of attainment of course outcome.

Fig: 2.2.3. shows Screen Shots of the Questions asked in student feedback of Teaching Learning Process

Feedback on Teaching learning process	Is any pedagogical methods used in class? *
avi, chiranjib@gmail.com Switch account	⊖ Yes
	○ No
Required	
	Quality of student projects. *
Email *	O Poor
four email	O Average
	O Good
You are a *	O Very good
	O Excellent
Choose 👻	
① This is a required question	Infrastructure of laboratory, *
	O Poor
Name*	O Average
four answer	Good
	O Very good
Quality of classroom teaching *	O Excellent
Poor	
Average	Are teachers giving attention to weak students? *
Good Good	⊖ ves
Very good	○ No
C Excellent	

Fig: 2.2.3 Screen Shots of the Questions asked in student feedback of Teaching Learning Process

Actions taken after obtaining students feedback:

The following actions are taken by the HOD to improve the teaching learning process after obtaining the students' feedback.

- Counselling of those faculty members by HOD who scored low and received negative comments (if any) in the feedback. This motivates them to improve their skills and abilities.
- Faculties with good feedback are recognized by special awards from the Institute. The Fig. 2.2.4 and Fig. 2.2.5 shows such awards.

Signation of the second s	
JIS Samman 2021	
To Mr. Sabyasadi Mukherjee	
To Mr. Sabyasachi Mukherjee of Asansol Engineering College for pest Video Lectures	
Prof. (Dr.) Abhijit Sengupta Charman - JIS Samman 2021	Sardar Taranjit Singh Masaging Director 18 Urung

Fig.2.2.4 Award for Faculty

		AN TOP
	Jis SAMMAN 2021	
	En caracteristica de la compositica de la compos	
	Proudly Confers	
JI	S Samman 2021	
To_Dr. Sandip	Roy, AP-CSE	
of ASANSOL ENGINES	RING OLLEGE	
for <u>Faculty</u> with Best	Research Gudentials (1 February, 2021	(Institutional) Sardar Taranjit Singh Managas Director JIS Group
Sinter		A CONTRACTOR

Fig.2.2.5 Award for Faculty

2.2.2. Quality of internal semester Question papers, Assignments and Evaluation (20)

2.2.2. A Process for internal semester question paper setting, evaluation and effective process implementation

Course Assessment Process:

The academic performance of the students is a tool for assessment of the teaching and learning process adopted by the program. The performance evaluation may be both informal and formal.

Informal evaluation is done through student interaction, observation and feedback through mentorship etc. However these tools are subjective and may vary person to person.

Formal Evaluation is done through university guidelines. As per the guidelines the course evaluation has two components namely, internal/continuous assessment and semester/terminal assessment with a ratio of 30:70 (for theory) and 40:60 (for laboratories) on a scale of 100. Continuous assessment of sessional papers is done for 100 marks.

The internal/continuous assessment includes

- Internal Class Test (Two Centrally by college and two by concern faculty member)
- Assignments (Four by concern faculty member)
- Quiz
- Attendance of the students

The external evaluation consists of a written examination at the end of the semester.

Quality & Frequency of Internal Evaluations and Format for Question Papers:

The question paper of various formal evaluation methods are formulated as per university guideline and is elaborated as follows:-

Internal Class Test: Two internal class tests are centrally conducted by the institute for all the courses. In addition to that concerned faculty members organize an additional two test/assignment/quiz for students. Continuous Assessment (CA) evaluated based on the class test/ assignment/quiz taken by centrally and individual faculty member.

Course outcomes are followed while setting the internal exam question papers where the following strategy is applied. The internal test consists of 30 Marks of subjective questions and objective question.

Multiple Choice questions ($1 \times 5 = 5 \text{ marks}$)

Short Answer Type Questions ($2 \times 5 = 10 \text{ marks}$)

Long Short Answer Type Questions (1 x 15 = 15 marks)

Sample Class Test Question

Asansol Engineering College SUB: DATABASE MANAGEMENT SYSTEM (CS601) 2018-19

<u>1st Class Test</u>	Time:1hr	F.M – 30
Answer the	following questions	(5x1)=5
	a language that allows:	[CO2/BT-II]
	lefine data b. to define the relationships c. to add new rows d. All	
	lational model ,the number of attributes in a table is termed as dinality b. degree c. domain d. none of these	[CO1/BT-I]
3. In ER m	odel, a multi valued attribute is represented using: pse b. double diamond c. double rectangle d. double ellipse	[CO1/BT-II]
4. A relation	n can be logically connected to another relation by defining a eign Key b. Common field c. primary key d. Hyperlink	[CO2/BT-II]
	al Algebra is a	[CO3/BT-I]
	cedural language b. non-procedural language c. commercial langua	-
	ν two (<i>either 6 & 7 OR 8 & 9</i>) n E-R diagram for a Banking business scenario with the given assu	(2x5)=10
		-
	tiple banks and each bank has many branches. Each branch	
	rs. Customers have various types of accounts. Some Customers	
	t types of loans from these bank branches. One customer can	
	s and Loans.	[CO1/BT-II]
	Generalization and Specialization with example.	[CO2/BT-II]
	rize the advantages of DBMS over File System.	[CO1/BT-II]
-	the concept of aggregation with example. Define candidate key, pr	
foreign l	key.	[CO2/BT-II]
Answer the	following:	(5x3)=15
10. Write th	e equivalent relation algebra and SQL statement for the given que grelational schemas.	
Works (ee (person_name, street, city) person_name, company_name, salary) y (company_name, city)	
a. Give all	employees of TCS a 10% salary raise.	
b. Find the	total salary of the employee's for each company.	
c. Find all	employees who do not work for TCS and earning salary more than	a 25000.
d. Find the work.	names of all employees who live in the same city as the company	for which they
e. Modify	the database so that SAURAV now lives in DELHI.	
	employees who are not working in any company, then delete their from Employee relation.	corresponding
PT lovel v		s Test-1
Di level v	CO wise Mai	rks Distribution
	8T-II 7% 50% 8T-II CO-3	CO-1 23%
	43%	CO-2

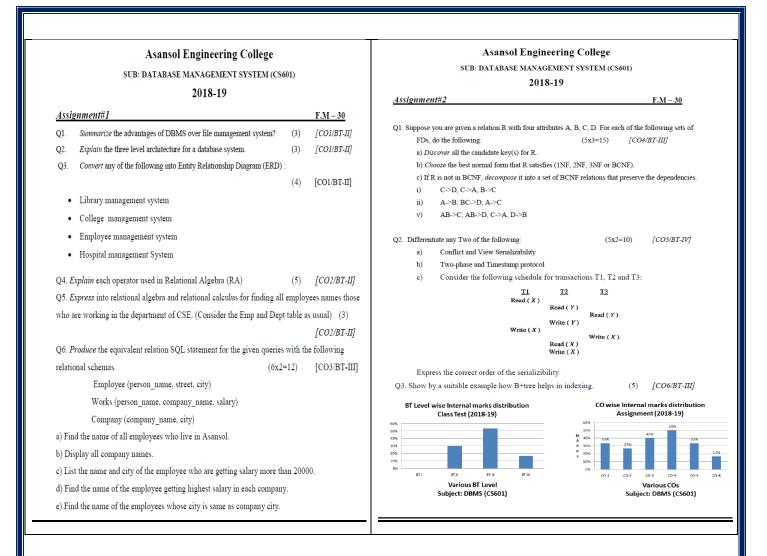
CO-2 23%

Asansol Engineering Col SUB: DATABASE MANAGEMENT S 2018-19			Analyze what type of schedule this is? i) Analyze whether the given schedule S is co	1 1
2 ^{ud} Class Test Time:1hr	F.M –	30	T1 T2R(X)	T3 T4
1. <u>Answer the following questions</u> :	(5x1)=5		W(X) Commit
I. A normal form in which every determinant is a key is:	[CO	4/BT-III]	W(X) Commit	
a. 2NF b. 3NF c. BCNF d. 4NF			W(Y) R(Z) Commit	
II. Which one of the following is a trivial dependency?	[CO	4/BT-III]		R(X) R(Y)
a. $AB \rightarrow A$ b. $A \rightarrow A$ c. Both of these d. None of these				Commit
III. Serializability of concurrent transactions are ensured by	[00	5/BT-IV] BT	Class Test-2	Class Test-2
a. Locking b. Time stamping c. both of these d. none		BT	level wise Marks distribution	CO wise Marks Distribution
a. Docking of Third stamping cootin of mese denoise	of these			CO-6
IV. PJNF is also called	[CO	4/BT-III]	BT-IV 33%	17%
a. 3NF b. BCNF c. 5NF d. 4NF			BT-III	CO-4 50%
V. Every BCNF is in	[00	4/BT-III]	67%	CO-5 33%
a. 1NF b. 2NF c. 3NF d. all of these	[00	4/D1-111j		
2. <u>Answer the following</u> :	(5*)	2)=10		
a. The following functional dependencies holds for the relation		-) wise Internal marks distribution	
$X \rightarrow W, WZ \rightarrow XY, Y \rightarrow WXZ$	ar scheme K (W, K, I, Z)		Class Test (2018-19)	BT Level wise Internal marks distribu Class Test (2018-19)
	[00	4/BT-III] M 50%	53% 50%	
Find the equivalent canonical cover. OR	[00	4/BT-III] A 50%	33%	R 50% 43%
Given a relational schema R = { SSN, ENAME, PNUMBER	DNAME DI OCATION HOI	K 30%	23% 23% 17%	5 30%
		10% -		- N 10% 7%
and the decomposed table $R1 = \{ ENAME, PLOCATION \}$ and $R1 = \{ ENAME, PLOCATION \}$		c	CO-1 CO-2 CO-3 CO-4 CO-5 CO-4	5 % BT-I BT-II BT-II BT-II
PNAME, PLOCATION $\}$ and FD = { SSN \rightarrow ENAME, PNU!			Various COs Subject: DBMS (CS601)	Various BT Level Subject: DBMS (CS601)
SSN, PNUMBER $\} \rightarrow$ HOURS $\}$. Demonstrate whether the gi	ven decomposition R1 and R21		,	
lossless or lossy decomposition?	311 1 11 0 1			
 b. Construct a trigger to perform on EMP table that no updating 				
2 American the fellowing constitution	-	6/BT-III]		
3. <u>Answer the following question:</u>		9) =15		
a) Consider the relation schema R (A, B, C, D, E, F, G, H, I, J				
$A \rightarrow DE, B \rightarrow F, F \rightarrow GH, D \rightarrow I J$	[00	4/BT-III]		
Find all keys of R?				
Is the relation in 2NF? Justify, If no, convert it into 2NF and th				
Give an example of a relation which is in 3NF but not in BCNI				
b)		5/BT-IV]		
i) T1: read (P); T2:	read (Q);			
read (Q);	read (P);			
if $P = 0$ then $Q := Q + 1$;	if $Q = 0$ then $P := P + 1$;			
write (Q);	write (P);			

Sample Assignments

tion

BT-IV



Mechanism of internal assessment

Institute is affiliated to MAKAUT, the rules and regulations for evaluation process are laid down by the affiliating University and are communicated to students through syllabus copies supplied in the beginning of first year of their academic program. At the college level, an Examination Cell, comprising of a senior teacher as in charge and other teaching and non-teaching staff as members, is constituted to handle the issues regarding examination and evaluation process. The schedules of internal assessments are communicated to students and faculty in the beginning of the semester through institute academic calendar.

- Schedule for end semester examinations are communicated during the semester as and when schedule is released by the University.
- The internal assessment evaluation process is communicated to students by the respective faculty and also during orientation program for first year students.
- Students are given general instructions regarding the evaluation methods of University answer scripts. The periodic instructions issued by the university are promptly communicated to the students. Such instructions are read in the classrooms and the copy of the same is displayed on the students' notice board.

- The faculty members are entrusted with the duty of providing awareness among the students regarding this.
- Appropriate schedule and syllabus for internal assessment is communicated to students well in advance (minimum 21 days before the commencement of examination).
- Question papers are set based on Course Outcomes by the course coordination team and are approved after thorough verification by the departmental quality cell.
- Verified question papers are sent to examination cell for conduction of class test.
- Evaluation of answer scripts is based on scheme prescribed by the university and solution by the faculty.
- After evaluation of the Answer Scripts the test results are published (within 7 days).
- The answer scripts are given to students after the completion of evaluation for verification of the marks.

In the case of grievance with evaluation, the following two aspects are performed at the Institute.

Internal Assessment: The institute adheres to its academic calendar for declaration of internal assessment marks and consequent display of answer script to the students. If there is any clarification needed, the student can approach the concerned faculty within one week after display of marks. However, if a grievance cannot be addressed by the course faculty, the student has the option to take it up with the Head of the Department through his/ her Section Coordinator. Head of the Department may order, re-evaluation of the answers script of any other teacher in the presence of student concerned, course teacher and Program Coordinator.

External Assessment: As per University norms.

The faculty members prepare question papers in such a way that all the course outcomes are considered and mapped adequately. Mapping of COs with the question papers helps to evaluate the attainment of COs and hence the POs & PSOs.

Class Assignments:-After the completion of each unit or module, assignment questions are given to the students to be submitted within a stipulated time. Assignment questions are mapped with respective COs. The assignment question papers are formulated in such a way that

- It prepares the students for university and semester examinations.
- It measures the learning outcome of the students on the recent completed topics.
- It reflects the implications of the recently learned topics on the society.
- It analyses the applicability of ongoing topics for solution of real-life problems.

Laboratory Course Evaluation: -As per the University guidelines the distribution of marks for laboratory courses is 40 (internal assessment) and 60 (external assessment) respectively.

• The rubric based continuous evaluation includes

- Test of laboratory skill on continuous basis,
- Ability of data collection and analysis
- Interpretation of data for reaching a conclusion
- Oral written communication skills

Semester Examination: -Semester examinations are conducted by the University. The faculty members of affiliating colleges are deputed by the University for preparing question papers. A competent Professor deputed by the University acts as a moderator for finalization of such semester end question papers. Most of the faculty members participate in this process of preparation of question paper. The question paper generally consists of

Multiple Choice questions ($1 \times 10 = 10 \text{ marks}$)

Short Answer Type Questions ($5 \times 3 = 15 \text{ marks}$)

Long Short Answer Type Questions ($15 \times 3 = 45 \text{ marks}$)

University sample Question paper:

2.2.3 Quality of student projects (25)

As per university curriculum each student has to complete a project during 4th year. Process related to project allotment and monitoring are described here.

2.2.3.A. Identification of projects and allocation methodology to faculty

- Every faculty member identifies 3-4 projects and submits them to the project coordinator providing a short description of the work to be done.
- Students are notified to form groups of 4, select a project topic, collect the allotment sheet from the lab in-charge (technician) and approach the corresponding faculty member.
- The guide then puts his/her signature in the allotment sheet which the students submit back to the technician to complete the allocation process.
- The projects are allocated first-come-first basis.
- Each group is allotted one computer in the project laboratory.
- The project coordinator monitors the entire process.
- Once the allotment is complete, the project coordinator collects these details and displays the list on the notice board.

2.2.3.B Types and relevance of the projects and their contribution towards attainment of PO's and PSOs

The projects offered to the students fall under one of the following two categories:

Category No.	Category Name
1	Research Oriented
2.	Application Oriented

Relevance of the projects and their contribution towards attainment of PO's:-Various POs and PSOs are attained throughout the project tenure as elaborated below. Apart from these commonly addressed POs, project work also leads to attainment of POs 1 to 5 and also PSOs 1 to 3 as shown in Table 2.2.3.2depending on the area and type of work.

Before proceeding with the project, the students are informed by their guides about:-

- Current societal needs
- Current research trends
- Appropriate technology, the knowledge of which may be necessary for sustainability and selfdevelopment

Relevant for PO-6 and 7(The engineer and society; Environment and sustainability)

After explaining the work to be done, the following points related to project methodology are discussed and explained by project guide: -

- Current regulations regarding patent and copy-rights
- Plagiarism and methods to test and avoid it
- History and literature review which will help the students to understand the need of lifelong learning.

Relevant for PO-8and 12(Ethics; Life-long learning)

During the project, the students are encouraged to get completely involved in the assigned work through:-

• Teamwork:-Active participation of every member of the project group.

- Utilization of individuals ability:- Utilize one's communication, technical, documentation skills to contribute effectively for the work assigned to the group.
- Leadership:-Take leadership role whenever possible to initiate, innovate and execute for completion of the Project in time.
- Project management and finance: Learn how to manage a project by noting the activities completed on weekly basis (Table 2.2.3.1) and at the same time learn to manage the allocated fund no matter how small scale they are during the project.

RelevantforPO-9, 10 and 11(Individual and team work; Project management and finance)

After completion of the project, the work done is evaluated. The students display and present their completed work and demonstrate their communication skills through: -

- Written Communication: final report writing
- Verbal Communication: -dissertation defense and model demonstration.

Both Verbal &Written: - participation in project exhibitions and competitions and publication in conferences and journals.

Successful completion of the project work leads to attainment of most of the Program Outcomes (POs) and Program Specific Outcomes (PSOs).

All the students are made aware of certain unethical practices by their supervisors like violation of copyrights, indulgence in plagiarism etc., so that they never indulge themselves into such malpractices neither during their project work nor during report writing. This exercise takes care of PO-8 on ethics.

2.2.3. C. Process for monitoring and evaluation

The projects are monitored and evaluated as per the schedule shown in Table 2.2.3.1.Project Coordinator, who is a member of the Departmental Academic Committee is assigned the responsibility of preparing the project monitoring and evaluation schedule to be followed by project guides.

Week	Activity	
Week 1	Formation of project groups and allocation of guide. Guide briefs students about the work to be done, related theories and models.	
Week 2	Survey of literature related to the work and/or study of related theories.	

Table2.2.3.1B.TechFinalyearprojectmonitoring and evaluation process

Week 3	Writing the project synopsis and getting it verified by the guide. If the guide is satisfied prepare a power point presentation of the work to be done.	
Week 4	If the guide is satisfied with the presentation, start the design phase of the project. Get the design verified by the guide and start converting design to implementation.	
Week 5 -	Project implementation with verification of the outputs and if necessary introduce	
Week 11	necessary changes in implementation.	
Week 12	Make the minor project report and get it verified by the Guide.	
Week 13	If the guide is satisfied, prepare a power point presentation of the work and show it to the Guide.	
Week 14	Submission of the minor project report & presentation in presence of project evaluation committee & viva voce	

2.2.3. D Process to assess individual and team performance:-The project evaluation process includes the university terminal evaluation and the internal continuous evaluation. The university terminal examination is as per the scheme prescribed by the university. The internal evaluation of the project progress is done based on following three rubrics to assess the individual and team performance throughout the duration of project:

RUBRIC-1:-Problem analysis & design to asses

- Team Work.
- Contribution.
- Domain knowledge.

RUBRIC-2:-Implementation and Documentation Rubric to assess

- Team work
- Contribution
- Content and creativity

RUBRIC-3:-Demonstration and Final Presentation to asses

- Team Work
- Content and creativity
- Coherence and organization
- Communication skills and participation

The Course Outcomes of the final year project shown below actually relates to the above rubrics.

	Serial No	Course Outcomes	Marks	
EC/CSE	E/NBA – 2022			

CO1	Analyze the given problem in a team by reviewing existing literature.	10
C02	Design solutions for the given problem with due	30
	consideration to environmental, societal and cultural issues.	
CO3	Apply appropriate tools and techniques for implementation by maintaining professional ethics.	30
CO4	Demonstrate presentation skills by communicating effectively as a team.	20
CO5	Prepare a report by documenting each aspect of the work effectively.	10

2.2.3. E Quality of completed projects/working prototypes: Some of the projects completed by the students of the department is included inTable2.2.3.2.

Academic year	Project Title	Category No.	Relevant to PO
	Customer Relationship Manager for cable TV Dealer		PO1-PO3, PO5-
		2	PO12 and
			PSO1-3
	Medical Image Quality Enhancement using Image De-	1	PO1-PO12,
	noising	1	PSO1-PSO3
2020-	IOT based waste Management System using Aurdino.	1	PO1-PO12,
2021		1	PSO1-PSO3
	Security issues of Cloud based Storage	1	PO1-PO12,
		1	PSO1-PSO3
	Smart Offline examination conduction system		PO1-PO3, PO5-
		2	PO12 and
			PSO1-PSO3
	Video Image Processing for vehicle detection and	1	PO1-PO12,
	counting.	-	PSO1-PSO3
	A new paradigm of machine learning for	1	PO1-PO12,
	bioinformatics.	-	PSO1-PSO3
2019-	Secure Electronic Fund Transfer Over Internet Using		PO1-PO3, PO5-
2020	AES	2	PO12 and
			PSO1-PSO3
	IOT Based Vehicular Activity Monitoring System.		PO1-PO3, PO5-
		2	PO12 and
			PSO1-PSO3
	E-Authentication Using OTP		PO1-PO3, PO5-
		2	PO12 and
			PSO1-PSO3
2018-	Hybrid Heuristic Algorithm to finding the Solution of	1	PO1- PO12,
2019	Real World Engineering Optimization Problems.	-	PSO1-PSO3
	Resource Reservation Policy in Cloud.	2	PO1-PO3, PO5-
		_	PO12 and

PSO1 PSO3		
1501-1505		PSO1-PSO3

Table2.2.3.2.Some of the projects completed by the students of the department

2.2.3.F Papers published/awards received by projects

1. M. Dey, A. Das, A. Banerjee, U. Kamila and S. Chattopadhyay, "Construction of Efficient Wireless Sensor Networks for Energy Minimization using a modified ACO algorithm", in International Journal of Sensors, Wireless Communications and Control, Bentham Science, Vol.11, issue 9, 2021, pages 928-950.

 S. Hazra, S. Ghosh, S. Bala and D. Chakraborty, "An SVM Approach for Pixel Identification of Multi-spectral Remotely Sensed Data", IEEE Proc of 2nd International Conference for Emerging Technology (INCET) 2021, Karnataka, India.

2.2.4. Initiatives related to industry interaction (15)

A. Industry supported laboratories

Industry Supported Laboratory			
SL. NO.	NAME OF LABORATORY	NAME OF IMPORTANT EQUIPMENTS	
1	BOT Laboratory	Intel Core i3 <u>4160@3.60</u> GHz, 8 GB RAM, 500 GB HDD,18.9 Inch Monitor	





2.2.4.B Industry involvement in the program design and partial delivery of any regular courses for students

The table below shows the executive council of the University, MAKAUT involved in the program design. However the Department of CSE always thrives to strengthen industry involvement in either partial delivery of courses or delivering contents beyond curriculum.

THE EXECUTIVE COUNCIL, MAKAUT

Prof. Saikat Maitra, Vice-Chancellor, MAKAUT, WB.	Chairman
Vacant, Pro-Vice Chancellor, MAKAUT, WB	Vice-Chairman
Sri SiladityaBasuray, Special Secretary, University Branch & IT Cell, Govt. of WB-Nominee of Secretary, Higher Education Dept. Govt. of WB.	Member
Sri Bidyut Kumar Nandi, Financial Advisor, HED, Sc& Tech & Biotech, Nominee of Secretary, Finance Dept. Govt. of WB.	Member
Sri Pranabesh Das, Director of Technical Education.	Member
Nominee of Chairman, W.B. State Council of Higher Education.	Member
Prof. Debashis De, Director, School of Computational Science	Member
Prof. Raja Banerjee, Director, School of Biological Science	Member
Dr. Indranil Mukherjee, Director, School of Management Science	Member
Prof. Sriyankar Acharya, Prof. Dept. of CSE, MAKAUT, WB	Member
Dr. Madhumita Das Sarkar ,Asso. Prof.	Member
Dr. Soumen Kumar Pati, Asso. Prof. Dept. of Bioinformatics	Member
Dr. Sankar Prasad Mondal, Asst. Prof. Dept. of Applied Science	Member
Dr. Smarajit Das, Asst. Prof. Dept. of Biotechnology	Member
Prof. K. Chakraborty, Principal Govt. College of Engg. & Ceramic Technology	Member
Prof. Amitava Ray, Principal Jalpaiguri Govt. Engg. College.	Member

Dr. Bibek Chakraborty, Principal, Purulia Government Engineering College	Member
Prof. Pranay Chaudhuri, Principal, Heritage Institute of Technology	Member
Dr. Sutapa Mukherjee, Principal, B. P. Poddar Institute of Management & Technology	Member
Dr. Goutam Mukherjee, Associate Professor, Govt. College of Engineering & Leather Technology	Member
Dr. Sukhendu Sekher Mondal, Assistant Professor, Cooch Behar Govt. Engineering College	Member
Dr. Biswarup Neogi, Asso. Prof, Dept. of CSE, JIS Engineering College	Member
Dr. Satyajit Chakrabarti, Director, Institute of Engineering & Management	Member
Dr. Pranabesh Chakraborty, Director, Bengal School of Technology (Pharmacy)	Member
Dr. Saurabh Dutta, Professor, Dr. B. C. Roy Engineering College (MCA)	Member
Prof. Kusum Sudhakar Reddy, HoD Dept. of Civil Engg., IIT KGP. Chancellors Nominee	Member
Prof. Gairik Das, Head MRM and Business Analytics, IISWBM, Kolkata. Chancellors Nominee	Member
Sri Kallol Dutta, Ex-Chairman & Managing Director, Andrew Yule & Company, Nominee of State Govt.	Member
Sri Asish Kar, Retired Executive, Andrew Yule & Company Ltd. Nominee of State Govt.	Member
Dr. Abhijit Majumder, Assistant Professor, IIEST, Shibpur, Howrah. Nominee of State Government	Member

Department is constantly looking forward to strengthen interaction with industries. This has been done to emphasize on:

- Internship
- Imparting "Contents Beyond Syllabus"
- Student Specific Training
- Faculty Development Programs

Some of the steps taken in this regard include:-

Finishing School Program: It is a unique program developed for the students from first to final year for their soft skill development. It puts emphasis on development of communication skills, team work and technical skills in collaboration with various industry experts.

Industry offered courses: College also provides opportunity to our students to attend various industry offered courses (like Agile and Jile Certification Course, offered by TCS) in the college premises itself. Various Industry collaborated events (workshops, seminars, industrial visits etc.) organized by the department/college during the last three academic years are listed in Table 2.2.4.1.

S. No.	EVENTS	Event Type	Date-Month-Year	Resource Person with designation	No of students / Faculty	Relevance to POs, PSOs
1	Data Science	AIP Workshop	11-Jan-19	Mr. Jayanta Adhikary , Corporate Trainer	Student- 40	P01,P05,P08 P09,P010,P0 12
2	Getting a Headstart Talk by TCS iON, Business Unit Head	Webinar	07-Feb-19	Mr. Krishnan CA ,Corporate Trainer	Teacher 2 Students : 45	PO1,PO8,PO9 ,PO10,PO12
3	Blockchai n Webinar Series TCS Leadership Talks	Webinar	28-Feb-19	Mr. Lakshminarasimhan Srinivasan, Corporate Trainer.	Teacher 2 Students : 55	PO1,PO5,PO8 PO9,PO10,PO 12
4	MATLAB Digest Academic Edition - February 2019	Webinar	26-Feb-19	Mathworks India Pvt.Ltd,Mr. Vinod Thomas Sr. Training Engg.	Teacher 2 Students : 42	PO1,PO5,PO8 PO9,PO10,PO 12
5	Amdocs Webinar Invitation : Clearing the picture of Data Science around AI/ML - 6th March 2019	Webinar	06-Mar-19	Mr.Mohit Kumar,Corporate Trainer	Teacher 2 Students : 133	PO1,PO5,PO8 PO9,PO10,PO 12
6	Gurucool Webinar Series - Understan	Webinar	12&19-mar-2019	Prof.Yashavant Kanetkar	Teacher 2 Students : 47	PO1,PO2,PO8 PO9,PO10,PO 12

Table 2.2.4.1 Industry collaborated events

	ding Pointers In C - 12th Mar2019 (Asansol Engineerin g College)					
7	Amdocs Webinar Invitation : Kafka & Spark streaming for Real Time data processing - 28th March 2019	Webinar	28-Mar-19	Mr.Poorab Joshi,Technology Architect	Teacher 2 Students : 55	PO1,PO5,PO8 PO9,PO10,PO 12
8	Webinar on Facility for "Low Carbon Technolog y Deployme nt - Second Cycle- 2019 _Innovatio n Challenge" by UNIDO and CII	Webinar	3&10-july-2019	Mr. Vinod Reddy,Corporate Trainer	Teacher 2 Students : 87	PO1,PO8,PO9 ,PO10,PO12
9	Develop Cognitive Bots Driven by AI & ML,(IQ Bot)	Automation Anywhere	5-8-Aug-2019	Mr. Nitesh Corporate Trainer	Student: 10, Faculty: 3	PO1,PO5,PO8 PO9,PO10,PO 12
10	Introductio n to Robotic Process Automatio n	Automation Anywhere	5-8-Aug-2019	Mr. Nitesh Corporate Trainer	Student: 10, Faculty: 3	PO1,PO5,PO8 PO9,PO10,PO 12
11	Bentley 2019 Student Design Challenge - India	Webinar	31-aug-2019,14-sep- 2019	Sankalp Sarkar, Senior Programs Manager at Bentley Systems	Teacher 2 Students : 75	PO1,PO8,PO9 ,PO10,PO12
12	Advance training on JAVA and Software	Epam	21&28-Jan-2020, 04,11,18 & 25-Feb- 2020, 03,10,17 & 24- Mar-2020, 7-apr-	1. Mr. Rajesh Gannamani 2. Mrs. SaitejKuralla 3. Raja Sekhar Tadepalli , All	Teacher 2 Students : 8	PO1,PO5,PO8 PO9,PO10,PO 12
AEC/CS	SE/NBA – 2022	2				76

			<u></u>			
	Engineerin g		2020, 16&23-Jun- 2020	Corporate Trainer		
13	Webinar on Teaching in Digital Era	Webinar	25-Apr-20	Veguswamy Ramaswamy global head TCS ION and DR. P.R.Neran, Prof sastra deemed university	Teacher 2 Students : 34	PO8,PO9,PO1 0,PO12
14	IT-ITeS Sector Skills Council NASSCO M Webinar : Learn How to Ace Virtual Interviews, Apr 30, 2020	Webinar	30-Apr-20	Sujith Kumar,Associate vice president	Teacher 2 Students : 41	PO10,PO8,PO 12
15	AI Workspace Webinar CSE, ECE, IT (2021 batch) 27th April 2020 12:00 Noon	Webinar	27-Apr-20	Dr.Amlan Chakraborty, prof. and Dy.AKCSIT,University of Calcutta	Teacher 1, bstudent- 15	PO1,PO5,PO8 PO9,PO10,PO 12
16	Invitation for Webinar on Machine Learning using Regression	Webinar	30-Apr-20	Dr.Amlan Chakraborty, prof. and Dy.AKCSIT,University of Calcutta	Teacher 2 Students : 55	PO1,PO5,PO8 PO9,PO10,PO 12
17	Webinar Link Ingram Micro Webinar CSE, ECE, IT (2021 batch) 30th April 2020 11:30 AM pOst Covid 19 & challenges	Webinar	30-Apr-20	Mr Indrasis Ghosh,Sr Manager Technology	Teacher 2 Students : 43	PO7,PO8,PO1 0,PO12

18	Invitation for DevOps Webinar Transform ation of software Developm ent	Webinar	02-May-20	Devops	Teacher 2 Students : 75	PO1,PO2,PO3 ,PO5,PO8.PO 9,PO10,PO12
19	Webinar Registratio n 2nd May ,2020 Steps to get job in Cloud Computin g	Webinar	02-May-20	Mr. Aravind R,AWS certified Sol. Architect	Teacher 2 Students : 55	PO8.PO9,PO1 0,PO12
20	Webinar on Machine Learning using Regression - 30th April 4 PM	Webinar	30-Apr-20	Dr.Amlan Chakraborty, prof. and Dy.AKCSIT,University of Calcutta	Teacher 2 Students : 65	PO1,PO5,PO9 ,PO10,PO12
21	Webinar on Machine Learning on 4th May , Time-4 pm IST	Webinar	04-May-20	Expert of Amazon Web Service	Teacher 2 Students : 35	PO1,PO5,PO9 ,PO10,PO12
22	Webinar on Virtual Reality	Webinar	08-May-20	Vivek Sharma Founder & CEO Kingster636 Games	Teacher 2 Students : 57	PO9,PO10,PO 12
23	KCCP Webinar for the students - 2021/22/2 3 Passout Batch - B.Tech- CSE, IT, BCA & MCA	Webinar	14-May-20	Kovair Campus Connect Program - KCCP	Teacher 2 Students : 21	PO9,PO10,PO 12
24	Webinar on "BEST FIT FRESHER CANDID ATE POST COVID	Webinar	30-May-20	Mr. Rabindra Chaubal,Head Hr,Hind Rectifiers,Mr. Khalid Raza,Talent Acquisition Lead-EY,	Teacher 2 Students : 45	PO9,PO10,PO 12

	'19"					
25	Webinar on Education for Authentic Performan ce: The Essence of Future - Readiness CSE, IT, ECE, AEIE, EE, ME, CE, BCA & MCA (2021 Passout Batch)	Webinar	06-Jun-20	Mr.PravasDutta,Sr Vice President ,YES Bank LTD,MrPromit Kumar Ghosh,Sr Branch Head,IDBI Life Insurance Co Ltd	Teacher 2 Students : 35	PO9,PO10,PO 12
26	Webinar for CSE, IT, ECE, AEIE, EE, ME, CE, BCA & MCA (2021 Passout Batch) 9th June 2020 11.00 am – 12.30 pm Thinks We wish we new before Graduation	Webinar	09-Jun-20	Praveen Baheti founder and Managing MD of Alien Brains Pvt LTD	Teacher 2 Students : 57	PO9,PO10,PO 12
27	REGISTR ATION FOR A WEBINA R, WILL BE HELD ON 21.06.2020 , 11 AM TOPIC: EVOLUTI ON OF SDET ROLE IN IT INDUSTR Y LAST	Webinar	21-Jun-20	Naveen Kumar Dy of Probits technology	Teacher 2 Students : 57	PO1,PO3,PO5 ,PO9,PO10,P O12

	DATE OF REGISTR ATION: 20.06.2020 , 12 Noon					
28	Webinar for CSE, IT, ECE, AEIE, EE, ME, CE, BBA, BCA & MCA (2021 Passout Batch) 20th June 2020 6:00 pm - "Market Scenario after Covid 19 phase"	Webinar	20-Jun-20	Mr. Sanjay Mishra global partner Executive ,CiSCO,UK;Mr. Arnab Singh System Development Engineer Amazon	Teacher 2 Students : 58	PO9,PO10,PO 12
29	NASSCO M Webinar: Sales and Marketing: Technolog y & Data Integration – The key steps towards ROI driven Marketing Jun 26, 2020 5:30 PM IST	Webinar	26-Jun-20	Mitul Das, cofounder @Urs Digitally	Teacher 2 Students : 59	PO9,PO10,PO 12
30	WEBINA R FOR 2021 PASSOUT BATCH TOPIC: CAREER & SKILLS REQUIRE D TO EXCEL IN THE NEW NORMAL 27TH JUNE 2020,	Webinar	27-Jun-20	Mr. Parameswar Das, Corporate Trainer	Teacher 2 Students : 68	PO9,PO10,PO 12
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	6:00PM					
31	29th Dec'20 @ 11 am - Career Recropedi a - Live webinar - Emerging Technolog y Trends Persistent	Webinar	29-Dec-20	R. Venkateswaran, CIO, Persistent	Teacher 2 Students : 21	PO10,PO8,PO 12
32	A Placement Oriented Webinar on "Get placed in your dream company" 13th Sept. 2020 11:30 AM 2021 & 2022 Batch	Webinar	13-Sep-20	Mr. Kuntal Ghosh, Freelancer	Teacher 2 Students : 45	PO1,PO5,PO8 PO9,PO10,PO 12
33	BYJU'S Profile Building webinar for Placement 2021 Batch	Webinar	12th Sept 2020	Mr. Prasanna (IIMB Alumnus)	Teacher 2 Students : 35	PO1,PO5,PO8 PO9,PO10,PO 12
34	Career Recropedi a by Persistent - Webinar Session 2 'The Changing Workplace Paradigm' by Sameer Bendre	Webinar	07th Aug 2020	Mr. Sameer Bendre Chief Human Resources Officer	Teacher 2 Students : 57	PO7,PO8,PO1 0,PO12
35	BYJU'S CareerLab s Webinar on Profile Building for Higher Education	Webinar	17th July 2020	BYJU'S – CareerLabs Personnel	Teacher 2 Students : 57	PO1,PO2,PO3 ,PO5,PO8.PO 9,PO10,PO12
						01

	& Placement s 2020, 2021 & 2022 passout batch students 17th July 2020, 2:00 PM - 3:00 PM						
36	Webinar on "Introspect ion for setting up goals during worldwide pandemic 18.07.2020 , 06:00 PM 2021 passout batch students	Webinar	18th july 2020	Prashant Sinha(Independent Consultant, Former Director, ERNST & YOUNG), Sayantan Mukhopadhyay(Product Manager, Pinterest, El Carrito, California),Soumyadeep Ghatak(Area Human Resource Head, Reliance Jio)	Teacher 2 Students : 58	PO8.PO9,PO1 0,PO12	
37	WEBINA R BY CAREER LABS 2020 and 2021 passout batch students 10th July 2020 (Friday), 4:00 PM	Webinar	10th july 2020	BYJU'S – CareerLabs Personnel	Teacher 2 Students : 59	PO1,PO5,PO9 ,PO10,PO12	
38	Webinar for CSE, ECE, EE, ME & CE (2021 Passout Batch) 20th June 2020 6:00 pm	Webinar	20th june 2020	Mr. Sanjay Mitra(Global Patnet Executive Cisco), Mr. Arnab singh(System Development Engineer Amazon Development Center), Mr. Khalid Fazzlullah(Delivery Head CloudKaptar Consultancy Service)	Teacher 2 Students : 68	PO1,PO5,PO9 ,PO10,PO12	
39	Webinar on Landscape of Tech Companies CSE, IT, ECE (2021	Webinar	1st June 2020	Mr. Vaibhav Vahishtha (Technologiest Digital Transformation AL ML)	Teacher 2 Students : 55	PO9,PO10,PO 12	
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	Passout Batch) Scheduled on Monday, 1st June 2020 between 5 pm – 6 pm						
40	Webinar update - Additional session on Machine Learning using Regression on 4th May at 7 PM	Webinar	4th May 2020	Dr. Amlan Chakrabarti, Professor & Director, AKCSIT, University of Calcutta	Teacher 2 Students : 75	PO9,PO10,PO 12	
41	Career Recropedi a TechFlix Webinar Series - 'Towards Bridging AI skills gap between Industry and Academia - A Session by Anibha Athalye - Practice Head - Data Practice	webinar	7th may 2021	Anibha Athalye Practice Head – Data Practice	Teacher 2 Students : 35	PO1,PO5,PO8 PO9,PO10,PO 12	
42	LIVE ENTERPR ISE: THE OPERATI NG MODEL FOR THE POST- COVID WORLD	webinar	20th Feb 2021	Nandan Nilekani, Jeff Kavanaugh, Rafee Tarafdar	Teacher 2 Students : 57	PO7,PO8,PO1 0,PO12	
43	Come witness The Live Enterprise Virtual Book Launch!	webinar	20th Feb 2021	Nandan Nilekani Infosys Co-founder & Chairman of the Board; Jeff Kavanaugh Vice President & Global Head of the Infosys Knowledge Institute	Teacher 2 Students : 68	PO1,PO2,PO3 ,PO5,PO8.PO 9,PO10,PO12	
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	Infosys Webinar is on 20th Feb at 5 PM			& Rafee Tarafdar Senior Vice President & Chief Technology Officer of the Strategic Technology Group at Infosys		
44	Fw_ Invitation Exclusive webinar by Infosys on InfyTQ, Infosys Certificati on, and HackWith Infy	webinar	19th March 2021	Rajat Rawat, Senior Associate Lead - Talent Acquisition	Teacher 2 Students : 55	PO8.PO9,PO1 0,PO12
45	NASSCO M Webinar on Data Science: Current Trends and Opportunit ies	webinar	22-Jan-21	Ravi Kothari Chief Data Scientist, Icertis, Raghu Mehra, VP Emerging Areas, SLK Global Solution Data Science - Divya Gupta, FutureSkills Murthy NVS, Lead Strategy, Naresh i Technologies	Teacher 2 Students : 43	PO1,PO5,PO9 ,PO10,PO12
46	Fw_ NASSCO M Webinar_ Cyber Security Landscape in WFH scenario	webinar	25th Feb 2021	Meghan Nandgaonkar, Mannan Godil, Bhargav Pendse, Sanil Nadkarni, Viney Kumar, Mahesh Saptarshi, Shital Diwate Director IT (CIO), Fujitsu Consulting India	Teacher 2 Students : 75	PO9,PO10,PO 12
47	Career Recropedi a Webinar Presents TechFlix Series - on the Topic Salesforce _ the future is here	webinar	26-Feb-21	Shailesh Wadhankar, Associate Vice President – Engineering	Teacher 2 Students : 45	PO9,PO10,PO 12
48	Salesforce The Future is Here!	webinar	26th Feb 2021	Mr. Shailesh Wadhankar AVP Engineering Persistent Systems	Teacher 2 Students : 35	PO9,PO10,PO 12
49	Career Recropedi a presents a session on	webinar	26th March 2021	Animesh Singh Global Delivery Head BFSI	Teacher 2 Students : 57	PO9,PO10,PO 12

	Software led Transform ation in BFSI					
50	How do you Communic ate Effectively in an Interview?	webinar	22nd May 2021	A Persistent Campus Connect Initiative by Guest Speaker Anibha Athalye Practice Head – Data Practice	Teacher 2 Students : 57	PO9,PO10,PO 12

2.2.4.C Impact Analysis of industry institute interaction and actions taken thereof.

- \succ The effectiveness of this practice can be gauged by the great response of the participants of the courses being offered by the college.
- Students picked up what they learnt at the workshops to implement their final year projects.

 \succ Students gained from this exposure to incorporate an entrepreneurial spirit and project based thinking.

2.2.5. Initiatives related to industry internship/summer training (15)

2.2.5.A Industrial training/tour for students

The number of IT companies in and nearby Asansol is very less. So for industrial tours, the students go to nearby organizations like SAIL Burnpur, Hydel plant Maithon to learn how ERP systems are implemented and maintained in such large organizations to develop an understanding for the design and implementation of such ERP systems.



Industry visited:

SAIL, Burnpur

Date	: 20 th April 2018
Transportation	: College Bus
Students	: Total 30 students of 5 th Semester (20 BOYS+10 GIRLS)
Program Coordinator-	Mr. Abhishek Banerjee, Dept of CSE



Industry Visited	: MAITHON, HYDEL PLANT, MYTHON	
Date	: 11 th April, 2019	
Transportation	: College Bus	
Students	: Total 55 students of 6 th Semester (36BOYS+ 19GIRLS)	
Program Coordina	ator- Sandip Roy, Dept of CSE	

2.2.5.B Industrial/Internship/Summer training of more than two weeks and post training assessment

As per the university regulation, for the partial fulfillment of the requirements of the program, the students undergo compulsorily one month vocational training in different industries in and outside the state during the semester breaks.

The College has dedicated Training and Placement (T&P) Offices at two locations, Kolkata and Asansol. The office acts as an effective Industry - Institute interface to provide adequate Industry interface to the students. The Training and Placement Officers (TPO) also visits Companies regularly to know about recruitment possibilities and also the scope of industrial training and internship. The whole process of industrial training may be summarized as follows.

• Initiation of training related negotiations with Industries through formal or informal communication

followed by a formal request cum no objection certificate.

- Options are invited from the students to opt from the list of industries negotiated with. Further, the students who can arrange the industrial training or internship of their own are encouraged and they are provided all the necessary assistance by the T & P team.
- The students are encouraged to take up internship programs during their semester break. Faculty members provide the details such as guidelines, suggestions, scope and contact details of an internship. They also help the students by communicating with the industrial experts, providing the students recommendation letters and other necessary supports. The alumni coordinator constantly interacts with the alumni who are working in the industries and requests them to provide necessary guidelines and support for the students internship.
- During the training period, the Departmental T & P representatives stay in constant touch with the students to assess their progress and sort out any difficulty (if any).
- After completion of the training, the students need to submit a release letter or a completion certificate provided by competent authority to the Departmental T & P representatives.

The list of organizations which conducted **summer training** for the students are shown next. These are shown in the following tables for the year 2019-2020, 2018-1019 and 2017-2018.

SI	Name of Training	Training Dates (To-From)	Name of the Trainers and their Organization	Semester	Number of students participated	PO/PSO
1	PYTHON	18-07-2019 to 20- 07-2019, 22-07- 2019 to 27-07- 2019,29-07-2019	Arnab Chakraborty,Totsol Technologies	6th	25	PO1,PO2,P O3,PO4,PO 5,PO12,PS O1,PSO2,P SO3
2	CYBER SECURITY	18-07-2019 to 20- 07-2019, 22-07- 2019 to 27-07- 2019,29-07-2019	Joydeep Nath,Micropro	6th	23	PO1,PO2,P O3,PO4,PO 5,PO6,PO1 2
3	ΙΟΤ	18-07-2019 to 20- 07-2019, 22-07- 2019 to 27-07- 2019,29-07-2019	Joyjit Guha,Ardent Computech Pvt ltd	6th	28	PO1,PO2,P O3,PO4,PO 5,PO12,PS O1,PSO2,P SO3
4	ADV JAVA	18-07-2019 to 20- 07-2019, 22-07- 2019 to 27-07- 2019,29-07-2019	Saikat Chakraborty, Didactics/ Freelancer	6th	55	PO1,PO2,P O3,PO4,PO 5,PO12,PS O1,PSO2,P SO3

INDUSTRIAL TRAINING 2019-20

INDUSTRIAL TRAINING 2018-19

SI	Name of Training	Training Dates (To- From)	Name of the Trainers and their Organization	Semester	Number of students participated	PO/PSO
1	ЮТ	07-06-2018 TO 09-06- 2018, 11- 06-2018 TO 16-06-2018, 18-06-2018	Joyjit Guha,Ardent Computech pvt ltd	6th	20	PO1,PO2,P O3,PO4,PO 5,PO12,PS O1,PSO2,P SO3
2	CYBER SECURITY	08-06-2018 TO 09-06- 2018, 11- 06-2018 TO 15-06-2018, 18-06-2018 TO 20-06- 2018	Chandan Mukherjee,Totsol Technologies	6th	20	PO1,PO2,P O3,PO4,PO 5,PO6,PO1 2
3	ADV JAVA	07-06-2018 TO 10-06- 2018, 14- 06-2018 TO 16-06-2018, 21-06-2018 TO 23-06- 2018	Ayan Roy Mukherjee, Micropro	6th	62	PO1,PO2,P O3,PO4,PO 5,PO12,PS O1,PSO2,P SO3
4	DATA MINING WITH HADOOP	06-06-2018 TO 09-06- 2018, 11- 06-2018 TO 16-06-2018	Debasish Sarbadhikari, Didactics IT Solutions/ Freelancer	6th	32	PO1,PO2,P O3,PO4,PO 5,PO12,PS O1,PSO2,P SO3

	INDUSTRIAL TRAINING 2017-18					
S I	Name of Training	Training Dates (To- From)	Name of the Trainers and their Organization	Semester	Number of students participated	PO/PSO
1	ADVANCE JAVA	3-07-2017 to 6-07- 2017, 10- 07-2017 to 13-07-2017 & 17-07- 2017 to 18- 07-2017	Ayan Roy Mukherjee, Micropro	6th	40	PO1,PO2,P O3,PO4,PO 5,PO12,PS O1,PSO2,P SO3
2	PYTHON	3-07-2017 to 6-07- 2017, 10- 07-2017 to 13-07-2017 & 17-07-	Debojyoti Majumder, Ardent Computech pvt Itd	6th	27	PO1,PO2,P O3,PO4,PO 5,PO12,PS O1,PSO2,P SO3
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		2017 to 18-				
		07-2017				
		3-07-2017				
		to 6-07-				
		2017, 10-				
3	CYBER SECURITY	07-2017 to	Arnab Chakraborty, Totsol	6th	35	
Ŭ		13-07-2017	Technologies	000		PO1,PO2,P
		& 17-07-				O3,PO4,PO
		2017 to 18-				5,PO12,PO
		07-2017				6
		3-07-2017				
		to 6-07-				
		2017, 10-				
4	.NET	07-2017 to	Debasish Sarbadhikari, Didactics	6th	31	PO1,PO2,P
4		13-07-2017	IT Solutions/Freelancer	oth	51	O3,PO4,PO
		& 17-07-				5,PO12,PS
		2017 to 18-				O1,PSO2,P
		07-2017				SO3

The list of some of the industries where students were selected for **internship** is shown in the following tables for 3 batches 2017-2021, 2016-2020 and 2015-2019.

		2017-2021 batch	
Serial No	Roll	Name of student	Company
1	10800117014	USNISH CHATTORAJ	Ardent
2	10800117015	TANU SINHA	Ardent
3	10800117016	TAMAL MAJUMDAR	Cognizant
4	10800117017	SUYASH BURNWAL	Ardent
5	10800117018	SURAJ SHARMA	TCS
6	10800117020	SUDIP NAG	Ardent
7	10800117025	SOUVIK LAHIRI	Ardent
8	10800117027	SOURAV PAL	Ardent
9	10800117032	SOHINI BANERJEE	Cognizant
10	10800117041	SANSKRITI	Totsol
11	10800117042	SANJUKTA BOSE	Totsol
12	10800117043	SANJEEV SINGH	Totsol
13	10800117044	SANDEEP CHAKRABORTY	Totsol
14	10800117045	SAMAR YADAV	Totsol
15	10800117046	SAKET SINGH	Totsol
16	10800117050	RITIKA MANDHYAN	Nagarro
17	10800117051	RISHAV KHEMKA	Micropro
18	10800117053	RESHAB DUTTA	Cognizant
19	10800117058	RABI SHANKAR CHAKRABORTY	CBNITS
20	10800117062	PRAGYA RATHORE	Cognizant

21	10800117074	MILAN MONDAL	Wipro
22	10800117076	MD SHADMAN	TCS
23	10800117080	MANISH KUMAR	TCS
24	10800117083	KUSHAL KAR	Micropro
25	10800117084	KIRTI	Micropro
26	10800117085	KEDAR NATH CHOUDHARY	Micropro
27	10800117086	JAYESH ARYAN	Micropro
28	10800117087	HIMANSHU TIWARY	Micropro
29	10800117098	BHARATI GUPTA	ACCENTURE
30	10800117107	ANUKUL OJHA	Persistant
31	10800117109	ANKITA GUHA	Wipro
32	10800117111	ANKIT SHARMA	Accolite Digital
33	10800117114	ANAND KUMAR BHARTI	Wipro
34	10800117115	AMIT KUMAR KESHRI	Cognizant
35	10800117117	AMIT DAS	Wipro
36	10800118006	MUSKAN KUMARI	ACCENTURE
37	10800118007	DANISH ALAM	ACCENTURE

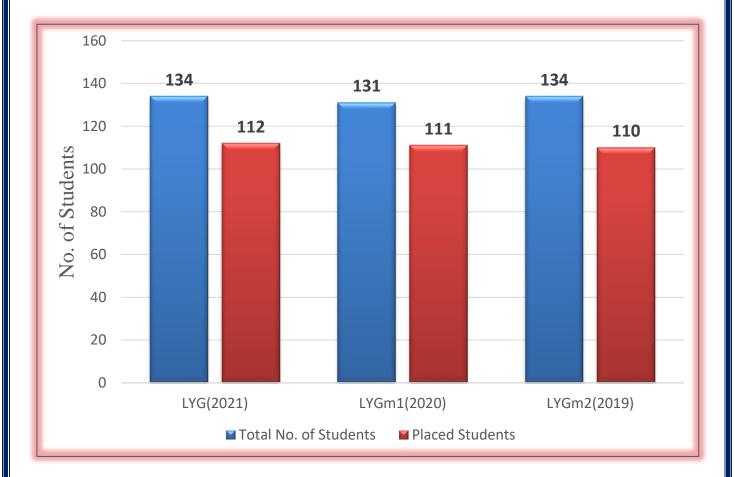
		2016-2020-batch	
SI No.	Roll	Name of student	Company
1	10800116012	VISHAL KEDIA	Ardent
2	10800116015	VIKASH KUMAR	Ardent
3	10800116017	VARTIKA KEDIA	Informatica
4	10800116018	UJJAWAL KUMAR	Xenon stack_SOFT
5	10800116019	TRIPTI VERMA	Ardent
6	10800116022	SWETA GUPTA	Ardent
7	10800116023	SUNNY KUMAR	Xenon stack_SOFT
8	10800116024	SUMIT KUMAR MAJEE	Ardent
9	10800116028	SUDHANSHU RANJAN	Xenon stack_Business
10	10800116033	SOURAV KUMAR PASWAN	Xenon stack_Business
11	10800116043	SHUBHAM KUMAR	Totsol
12	10800116044	SHREYASI MONDAL	Totsol
13	10800116046	SHIVANI KUMARI	Totsol
14	10800116047	SHIVAM	Totsol
15	10800116054	SANU KUMAR	Xenon stack_SOFT
16	10800116062	ROHAN KUMAR SINGH	Keysight-Internship
17	10800116068	RAMARCH KUMAR	Xenon stack_SOFT
18	10800116069	RAJAT SINGH	Nineleaps
19	10800116070	RAJAN KUMAR	Xenon stack_SOFT
20	10800116076	QUREE KUMARI	Nineleaps
21	10800116085	NEHA SINGH	Micropro
22	10800116086	NAINA KUMARI	Micropro
23	10800116087	MONOJIT DEY	Micropro
24	10800116088	MONIDEEPA DEY	Micropro
25	10800116089	MD MINHAJ KHAN	Micropro

26	10800116102	FAROOQ ANSARI	Keysight-Internship
27	10800116109	ARIJIT NANDI	Informatica
28	10800116115	ANKIT AGARWAL	MAQ
29	10800116122	AMEETA SOM	Keysight-Internship
30	10800116126	AKASH BHADANI	Nineleaps
31	10800116132	ABHIRUP CHATTERJEE	Keysight-Internship
32	10800117008	ANKITA TIWARI	eRevMax

		2015-2019 batch	
Sl No	Roll	Name of student	Company
1	10800115006	ABHISHEK MISHRA	Tek systems
2	10800115008	ADARSHA SHAH	Pega
3	10800115017	ANANNA MUKHERJEE	Pega
4	10800115025	BARSHA KUSHWAHA	Wipro
5	10800115026	BAYVAO VERMA	Pega
6	10800115029	BISWAJIT BANERJEE	virtusa
7	10800115044	HONEY KUMARI	Totsol
8	10800115045	JAHANVI NAAZ	Totsol
9	10800115046	KANKANA MUKHERJEE	Totsol
10	10800115047	KAUSHIK KUMAR GUPTA	Totsol
11	10800115048	KHUSHBOO KUMARI	Totsol
12	10800115049	KISHLAY KUMAR RANJAN	Totsol
13	10800115051	KRISHN PRIYA	virtusa
14	10800115059	MD YASIR IRFAN	Virtusa
15	10800115070	NIVEDITA SONAM	Pega
16	10800115081	PRATIBHA KUMARI	Micropro
17	10800115082	PRIYANKA SUPRIYA	CTS
18	10800115084	RAJAN PRASAD	Micropro
19	10800115086	RANI GUPTA	Micropro
20	10800115086	RANI GUPTA	CTS
21	10800115087	RANJEET KUMAR RANJAN	Micropro
22	10800115089	RISHABH KUMAR	CTS
23	10800115092	ROHIT SINGH	Wipro
24	10800115095	RUCHI KUMARI	TCS
25	10800115097	RUPA MUKHERJEE	Pega
26	10800115101	SANJUKTA CHAKRABORTY	Pega
27	10800115102	SANJUKTA SARKAR	Virtusa
28	10800115121	VISHAL NARAYAN SINGH	Virtusa
29	10800116001	TUSHAR BANERJEE	Pega
30	10800116003	SATYAM KR KURMI	Pega
31	10800116004	NISHANT KUMAR SANTORIA	Pega
32	10801615086	SALMAN SABIR	Pega
33	10801615086	SALMAN SABIR	TCS
34	10801615120	TRISHITA DUTTA	Ingram Micro

2.2.5.C Impact analysis of industrial training

The impact of the industrial training is reflected in the number of placements achieved in different academic years shown in figure below and details given in Criteria 4.



2.2.5. C Impact of industrial training

CRITERION 3

COURSE OUTCOMES AND PROGRAM OUTCOMES

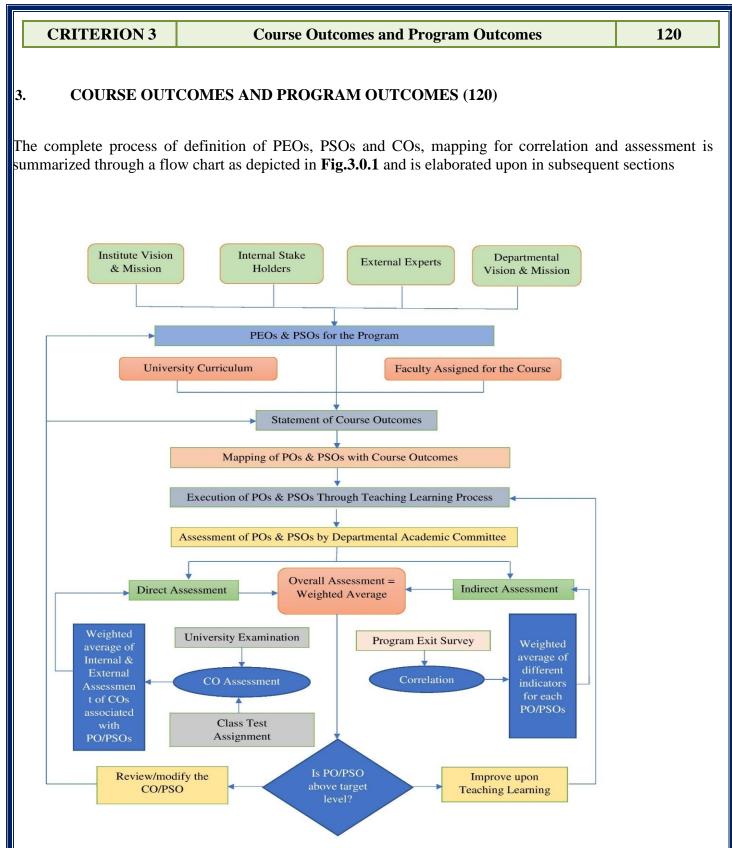


Figure 3.0.1- Definition and Assessment Process

3.1 Establish the correlation between the courses and the Program Outcomes (POs) and Program Specific Outcomes (PSOs) (20)

(Program Outcomes as mentioned in Annexure I and Program Specific Outcomes as defined by the Program)

Program Outcomes (PO)

PO-1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO-2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

 \mathbb{PO} -3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO-4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO-5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO-6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO-7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO-8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO-9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO-10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO-11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO-12. Life-long Learning: Recognize the need for, and have the preparation and ability to engage in

independent and life-long learning in the broadest context of technological change.

PSO-Program Specific Outcomes

PSO-1: Attain the ability to design efficient algorithms for developing hardware and software based systems.

PSO2: Apply standard software engineering approach and be able to use modern tools for solving real life problems.

PSO3: Apply the acquired proficiency to become successful technocrats and entrepreneurs as well as engage in research work in emerging fields of Computer Science and Engineering.

3.1.1. Course Outcomes (COs) (SAR should include course outcomes of one course from each semester of study, however, should be prepared for all courses and made available as evidence, if asked) (05)

Sample Course Outcomes (COs) of one course from each semester from 1st to 8th of the following courses is detailed below: -

Т	CABLE 3.1.1.1 Course Outcomes (COs) for Selected outcomes
	Batch: 2016-2020
Course Code	Course Outcome
	e: Mrs. Ranjita Sinha Course Name: Engineering Physics Course Code: PH- ssful completion of the course students will be able to
PH-101.1	Describe the theory of different type of vibrational motion like SHM, damped vibration and forced vibration and its application in electrical circuit.
PH101.2	Explain the theory and applications of interference, diffraction and polarization of electromagnetic waves.
PH101.3	State the basic principles of LASER and construction of Ruby LASER, He-Ne LASER and Holography.
PH101.4	Interpret the explanation of some phenomena like black body radiation, Compton scattering using the concept of quantum nature of electromagnetic wave and know the wave-particle duality of matter.
PH101.5	Classify the different types of crystal structure.
PH101.6	Discuss the origin and characteristics of x-ray .
	e: Sabyasachi Mukherjee Course Name: Basic Computation and Principles of mming Course Code: CS 201. After successful completion of the course students
CS 201.1	Apply the knowledge of fundamentals of computer system to solve different Engineering problems.
CS 201.2	Design the basic concepts of algorithm, flowchart to various engineering problem.

CS 201.3	Apply the concept of decision making, loops, array, function, pointer,
	structure and file handling to solve different Engineering problems.
CS 201.4	Analyze the efficiency of various searching and sorting algorithms.
CS 201.5	Formulate algorithms and programs for different real life concepts.
	: Mr. Biplab Mondal Course Name: Data Structure and Algorithm Course Code: ccessful completion of the course students will be able to
CS-302.1	Examine different linear and non-linear data structures and recognize their needs for various applications.
CS-302.2	Apply appropriate data structure as applied to specified problem definition.
CS-302.2	Apply different operations like searching, insertion and deletion, traversing mechanism etc., on various data structures.
CS-302.4	Apply the concept of graph, trees and heap to solve problem.
CS-302.5	Analyze best case, average case and worst-case time complexity of algorithms using asymptotic notations.
CS-302.6	Design different no-liner data structures like AVL tree, B tree and Graph related problems.
	: Mr. Pranabes Ganguly Course Name : Computer Architecture Course Code : cessful completion of the course students will be able to
CS-403.1	Ability to Apply the concept of various mapping techniques for a given scenario
CS-403.2	Examining the concept of parallel processing and pipelining
CS-403.3	Examining different hazards and various techniques for handling hazards in pipelined execution.
CS-403.4	Ability to Analyze the collision free execution of non-linear dynamic pipelined processor.
CS-403.5	Ability to Investigate the performance of non-linear dynamic pipelined processor.
CS-403.6	Examining concepts and techniques of ILP, superscalar, super-pipelined and VLIW processor architectures, array and vector processors.
	: Mr. Ujjwal Kumar Kamila Course Name: Object Oriented Programming Course after successful completion of the course students will be able to
CS504D.1	Apply the concepts of object-oriented programming, and differentiate with conventional procedural programming
CS504D.2	Apply the reusability features using Inheritance, Interface and Package.
CS504D.3	Apply the Object-Oriented Programming Concepts to handle strings
CS504D.4	Analyze advantage and disadvantage of exception handling
CS504D.5	Analyze interthread communication using concept of multithreading
CS504D.6	Design interactive application using applet
	: Mr. Uddalok Sen Course Name : Computer Networks Course Code : CS 602. ompletion of the course students will be able to
CS-602.1	Explain Data Communication system and functionalities of the layered network architecture

CS-602.2	Identify the solutions of error and flow control problems
CS-602.2	Implement an IP addressing scheme to meet network requirements in a medium size branch office enterprise
CS-602.4	Interpret the working principal of different routing algorithms used in modern Internet.
CS-602.5	Analyzed the functionalities of different transport layer protocols and Quality of Service.
CS-602.6	Understand different application layer protocols widely used in modern internet, security related challenges faced by modern society.
	e: Mr. Sujoy Kumar Basu Course Name: Software Engineering Course Code: cessful completion of the course students will be able to
CS701.1	Analyze the different software engineering life cycle models and project planning methodologies
CS701.2	Design software using functional and objected oriented approaches.
CS701.3	Apply the concept of coding and documentation
CS701.4	Test the software using different software testing mechanisms
CS701.5	Analyze various concepts of software quality and assurance
	e: Mr. Sabyasachi Mukherjee Course Name : Advance Computer Architecture 801A. After successful completion of the course students will be able to
CS 801A.1	Analyze the fundamental of Computer design and performance.
CS 801A.2	Analyze the concepts of parallel processing architecture like SISD, SIMD, MISD and MIMD
CS 801A.3	
	Apply the concept of pipelining and vector processing.
CS 801A.4	
	Create the efficiency among various network topology
CS 801A.5	
	Design the various memory architecture.

3.1.2 CO-PO Matrices Of Courses Selected In 3.1.1

(Six matrices to be mentioned: one per semester from third to eight semester) (05)

The CO-PO mapping has been done with correlation levels "1", "2", "3" and "-" for no correlation and defined as

- No Correlation

1 Slightly (Low)

2 Moderately (Medium) and

3 Substantially (High).

Hence all six CO-PO-PSO matrices are developed, one per semester from 3rd to 8thsemester.

	Table3.1.2.1: Correlation between CO-PO and CO-PSO														
	THIRD SEMESTER														
Cos	Cos PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PS01 PS02 PS03														PSO3
CS-302.1	3	-	-	-	-	-	-	-	2	2	-	-	-	3	-
CS-302.2	3	-	-	-	-	-	-	-	2	2	-	-	-	3	-
CS-302.3	3	-	-	-	-	-	-	-	2	2	-	-	-	3	2
CS-302.4	3	-	<u> </u>	-	-	-	-	-	2	2	<u> </u>	-	-	3	-

CS-302.5	-	3	-	-	-	-	-	-	2	2	-	-	-	3	2
CS-302.6	-	-	3	-	-	-	-	-	2	2	-	-	3	-	-
CS-302	3	3	3	-	-	-	-	-	2	2	-	-	3	3	2
						FOU	RTH SI	EMEST	ER						
Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS-403.1	3	-	-	-	-	-	-	-	-	-	-	-	2	3	-
CS-403.2	3	-	-	-	-	-	-	-	-	-	-	-	2	3	-
CS-403.3	3	-	-	-	-	-	-	-	-	-	-	-	2	3	-
CS-403.4	-	3	-	-	-	-	-	-	2	2	-	-	2	3	2
CS-403.5	-	-	-	3	-	-	-	-	2	2	-	-	2	3	2
CS-403.6	3	-	-	-	-	-	-	-	-	-	-	-	2	3	-
CS-403	3	3	-	3	-	-	-	-	2	2	-	-	2	3	2
						FIF	TH SE	MESTI	ER						
Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS-504D.1	3		-	-	-	-	-	-	1	1	-	1	-	2	2
CS-504D.2	3	-	-	-	-	-	-	-	1	1	-	-	-	1	-
CS-504D.3	3	-	-	-	-	-	-	-	1	1	-	-	-	1	2
CS-504D.4	-	2	-	-	-	-	-	-	1	1	-	1	-	2	1
CS-504D.5	-	2	-	-	-	-	-	-	1	1	-	1	-	3	2
CS-504D.6	-	-	2	-	-	-	-	-	1	1	-	-	1	2	2
CS-504D	3	2	2	-	-	-	-	-	1	1	-	1	1	2	2
						SIX	TH SE	MESTI	ER						
Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CS602.1	2	-	-	-	-	-	-	-	-	-	-	-	3	-	-
CS602.2	-	3	-	-	-	-	-	-	-	-	-	-	3	2	1
												2			2
CS602.3	-	-	3	-	1	-	-	-	-	-	-	2	3	2	2
CS602.4	- 2	- 3	3	-	1	-	-	-	-	-	-	-	3 3	2 2	2
CS602.4 CS602.5															
CS602.4	2	3	-	-	1	-	-	-	-	-	-	-	3	2	2
CS602.4 CS602.5	2	3	- 2	-	1	- - 2 2		- - 1		-	-	-	3 3	2 2	2 2
CS602.4 CS602.5 CS602.6	2 - -	3 3 2	- 2 -	-	1 - -	- - 2 2	-	- - 1 EMES"			-	- - 2	3 3 3	2 2 2 2	2 2 2 2
CS602.4 CS602.5 CS602.6	2 - -	3 3 2	- 2 -	-	1 - -	- - 2 2		- - 1			-	- - 2	3 3 3	2 2 2	2 2 2
CS602.4 CS602.5 CS602.6 CS-602 Cos CS-701.1	2 - 2 PO1 2	3 3 2 3 9 02 3	- 2 - 3 PO3 -		1 - - 1	- 2 2 SEVE	- - - NTH S	- 1 1 EMES ⁷ PO8 2	- - - - FER		- - - PO11 2	- - 2 2	3 3 3 3	2 2 2 2 9 9 8 02 3	2 2 2 2
CS602.4 CS602.5 CS602.6 CS-602 CS-701.1 CS-701.2	2 - 2 PO1 2 2	3 3 2 3 PO2	- 2 - 3 PO3	- - - - PO4	1 - - 1 PO5	- 2 2 SEVE PO6	- - - NTH S PO7	- 1 1 EMES' PO8 2 2	- - - - - - - - - - - - - - - - - - -	- - - - PO10	- - - PO11 2 2	- 2 2 PO12	3 3 3 9 PSO1	2 2 2 2 9 9 9 5 02 3 3 3	2 2 2 2 PSO3 3 3
CS602.4 CS602.5 CS602.6 CS-602 CS-701.1 CS-701.2 CS-701.3	2 - 2 PO1 2 2 3	3 3 2 3 PO2 3 2 -	- 2 - 3 PO3 - 3 -	- - - - - - - - - - - -	1 1 PO5 -	- 2 2 SEVE PO6 -	- - - NTH S PO7 -	- 1 1 EMES' PO8 2 2 2 2	- - - FER PO9	- - - - - - - -	- - - PO11 2 2 2 2	- 2 2 PO12 -	3 3 3 9 9 5 0 1 2 2 2 2 2	2 2 2 2 PSO2 3 3 3 3	2 2 2 2 PSO3 3 3 3 3
CS602.4 CS602.5 CS602.6 CS-602 CS-701.1 CS-701.2 CS-701.3 CS-701.4	2 - 2 PO1 2 2 3 2	3 3 2 3 9 02 3 2	- 2 - 3 PO3 - 3	- - - - - - PO4 - -	1 - 1 PO5 - -	- 2 2 SEVE PO6 - -	- - NTH S PO7 -	- 1 1 EMES [*] PO8 2 2 2 2 2 2 2 2	- - - FER PO9 1 1	- - - - - PO10 -	- - - PO11 2 2 2 2 2 2	- 2 2 2 PO12 -	3 3 3 9 7 7 7 2 2 2 2 2 2 2 2	2 2 2 2 PSO2 3 3 3 3 3 3 3	2 2 2 2 PSO3 3 3 3 3 3 3
CS602.4 CS602.5 CS602.6 CS-602 CS-701.1 CS-701.2 CS-701.3 CS-701.4 CS-701.5	2 - 2 PO1 2 2 2 3 2 2 2	3 3 2 3 9 PO2 3 2 2 2 3	- 2 - 3 PO3 - 3 - 3 - 3 -	- - - - - PO4 - - -	1 - 1 PO5 - -	- 2 2 SEVE PO6 - - -	- - NTH S PO7 - -	- 1 EMES' PO8 2 2 2 2 2 2 2 2	- - - FER PO9 1 1 1	- - - - - PO10 - - -	- - - PO11 2 2 2 2 2 2 2 2	- 2 2 PO12 - - -	3 3 3 9 7 7 7 2 2 2 2 2 2 2 2 2 2	2 2 2 2 9 8 0 2 9 8 0 2 3 3 3 3 3 3 3 3 3	2 2 2 PSO3 3 3 3 3 3 3 3 3 3
CS602.4 CS602.5 CS602.6 CS-602 CS-701.1 CS-701.2 CS-701.3 CS-701.4	2 - 2 PO1 2 2 3 2	3 3 2 3 9 02 3 2 2 - 2	- 2 - 3 PO3 - 3 - 3	- - - - - - - - - - -	1 1 PO5 -	- 2 2 SEVE PO6 - - - - - - - - -	- - NTH S PO7 - - - - - -	- 1 EMES' 2 2 2 2 2 2 2 2 2 2 2 2	- - - FER PO9 1 1 1 1 1 1 1 1 1 1		- - - PO11 2 2 2 2 2 2	- 2 2 PO12 - - - -	3 3 3 9 7 7 7 2 2 2 2 2 2 2 2	2 2 2 2 PSO2 3 3 3 3 3 3 3	2 2 2 2 PSO3 3 3 3 3 3 3
CS602.4 CS602.5 CS602.6 CS-602 CS-701.1 CS-701.2 CS-701.3 CS-701.4 CS-701.5 CS-701	2 - 2 PO1 2 2 2 3 2 2 2 2 2	3 3 2 3 9 PO2 3 2 2 3 3 3	- 2 - 3 PO3 - 3 - 3 - 3	- - - - - - - - - - -	1 - 1 PO5 - - - - - - - - - -	- 2 2 SEVE PO6 - - - - - - - - - - - EIG	- - - - - - - - - - - - - - -	- 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	- - - PO9 1 1 1 1 1 1 1 1 1 2 R	- - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- 2 2 PO12 - - - - - -	3 3 3 9 5 0 1 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 PSO2 3 3 3 3 3 3 3 3 3 3	2 2 2 PSO3 3 3 3 3 3 3 3 3 3 3
CS602.4 CS602.5 CS602.6 CS-602 CS-701.1 CS-701.2 CS-701.3 CS-701.4 CS-701.5 CS-701	2 - 2 PO1 2 2 2 3 2 2 2	3 3 2 3 PO2 3 2 2 3 2 3 3 2 2 3 2 2 3 2 2 3 2 2 3 2 2 3 2 2 2 3 3 2 2 2 3 3 3 2 2 3	- 2 - 3 PO3 - 3 - 3 - 3 -	- - - - - - - - - - - -	1 1 PO5 	- 2 2 SEVE PO6 - - - - - - - - -	- - NTH S PO7 - - - - - -	- 1 EMES' 2 2 2 2 2 2 2 2 2 2 2 2	- - - FER PO9 1 1 1 1 1 1 1 1 1 1	- - - - - - - - - - -	- - - PO11 2 2 2 2 2 2 2 2	- 2 2 PO12 - - - - - - - PO12	3 3 3 9 7 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 9 8 0 2 7 8 7 8 3 3 3 3 3 3 3 3 3 7 8 9 8 02	2 2 2 PSO3 3 3 3 3 3 3 3 3 3
CS602.4 CS602.5 CS602.6 CS-602 CS-701.1 CS-701.2 CS-701.3 CS-701.4 CS-701.5 CS-701 CS-701 CS-701	2 - 2 PO1 2 2 2 3 2 2 2 2 2	3 3 2 3 9 02 3 2 3 2 2 3 3 9 02 3	- 2 - 3 PO3 - 3 - 3 - 3	- - - - - - - - - - -	1 - 1 PO5 - - - - - - - - - -	- 2 2 SEVE PO6 - - - - - - - - - - - EIG	- - - - - - - - - - - - - - -	- 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	- - - PO9 1 1 1 1 1 1 1 1 1 2 R	- - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- 2 2 PO12 - - - - - -	3 3 3 9 5 0 1 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 PSO2 3 3 3 3 3 3 3 3 3 3	2 2 2 PSO3 3 3 3 3 3 3 3 3 3 3
CS602.4 CS602.5 CS602.6 CS-602 CS-701.1 CS-701.2 CS-701.3 CS-701.4 CS-701.5 CS-701.5 CS-701 CS-701 CS-701 CS-701 CS-701 CS-701	2 - 2 PO1 2 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3 3 2 3 PO2 3 2 2 3 2 3 3 2 2 3 2 2 3 2 2 3 2 2 3 2 2 3 2 2 2 3 3 2 2 2 3 3 3 2 2 3	- 2 - 3 PO3 - 3 - 3 - 3 PO3		1 - 1 PO5 - - - - - - - - - - - - - - - - - - -	- 2 2 SEVE PO6 - - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- 1 1 EMES' PO8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	- - - FER PO9 1 1 1 1 1 1 1 1 1 1 1 2 R PO9		- - - - - - - - - - - - - - - - - - -	- 2 2 PO12 - - - - - - - PO12	3 3 3 9 7 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 9 8 0 2 7 8 7 8 3 3 3 3 3 3 3 3 3 7 8 9 8 02	2 2 2 PSO3 3 3 3 3 3 3 3 3 3 9 5 03
CS602.4 CS602.5 CS602.6 CS-602 CS-701.1 CS-701.2 CS-701.3 CS-701.4 CS-701.5 CS-701 CS-701 CS-701	2 - 2 PO1 2 2 2 3 2 2 2 2 2 2 PO1 -	3 3 2 3 9 02 3 2 3 2 2 3 3 9 02 3	- 2 - 3 PO3 - 3 - 3 - 3 PO3 -		1 - - - - - - - - - - - - - - - - - - -	- 2 2 SEVE PO6 - - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- 1 1 EMES' PO8 2 2 2 2 2 2 2 2 2 2 2 2 2	- - - FER PO9 1 1 1 1 1 1 1 1 1 1 1 2 R PO9 -		- - - - - - - - - - -	- 2 2 2 PO12 - - - - - - - - - - - - - - - - - - -	3 3 3 9 5 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 9 SO2 3 3 3 3 3 3 3 3 3 3 9 SO2 1	2 2 2 PSO3 3 3 3 3 3 3 3 3 3 3 3 3 7 3 9 5 03 1
CS602.4 CS602.5 CS602.6 CS-602 CS-701.1 CS-701.2 CS-701.3 CS-701.4 CS-701.5 CS-701.5 CS-701 CS-701 CS-701 CS-701 CS-701 CS-701	2 - 2 PO1 2 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3 3 2 3 9 02 3 2 3 2 2 3 3 2 2 3 3 2 2 3 3 3 3 3	- 2 - 3 PO3 - 3 - 3 - 3 PO3 - - - -	- - - PO4 - - - - - - - - - - - - - - - - - - -	1 - - - - - - - - - - - - - - - - - - -	- 2 2 SEVE PO6 - - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- 1 1 EMES' PO8 2 2 2 2 2 2 2 2 2 2 2 2 2	- - - FER PO9 1 1 1 1 1 1 1 1 1 2 R PO9 - 1		- - - - - - - - - - -	- 2 2 2 PO12 - - - - - - - - - - - - - - - - - - -	3 3 3 9 9 5 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 9 5 0 2 7 7 5 0 2 3 3 3 3 3 3 3 3 3 3 3 3 3 7 3 7 7 7 7	2 2 2 PSO3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

CS-801A.4	-	-	3	-	-	-	-	-	1	1	-	1	1	2	1
CS-801A.5	-	-	3	-	-	-	-	-	1	1	-	1	1	3	1
CS-801A	3	3	3	-	-	-	-	-	1	1	-	1	1	2	1

3.1.3 Program level Course-PO matrix of all courses INCLUDING first year courses (10)

A correlation has been developed between course outcome of all courses (from 1st Semester to 8th Semester) with Program Outcome (POs) and Program Specific Outcome (PSOs) is shown in Table 3.1.3.1. The average value of CO-PO and CO-PSO mapping has been rounded up to two decimal places.

			Table	3.1.3.1	СО-РО (and CO-	PSO ma	pping o	f All Cou	urses of B	atch (201	6-20)			
COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
ES101	3	2	-	-	-	-	-	-	1	2	-	3	-	-	-
ES191	2	2	-	-	-	-	-	2	2	1	-	2	3	3	1
HU101	-	-	-	-			2	2	3	3	-	3	-	-	-
HU181	-	-	-	-	-	-	-	-	3	3	-	3	-	-	-
M101	3	2	-	-	-	-	-	-	-	1	-	3	2	-	-
ME101	3	2	-	-	-	-	-	-	-	-	-	2	-	-	-
ME192	2	2	-	-		_	-	-	3	1	-	2	-	-	-
PH101	3	2	-	-	-	-	-	-	-	2	-	2	-	-	-
PH191	3	2	-	-	-	-	-	-	3	2	-	2	-	-	-
XC181	-	-	-	-	-	3	3	3	3	3	-	3	-	-	2
CH201	3	2	-	-	-	3	-	-	-	2	-	2	-	-	-
CH291	3	2	-	-	-	-	2	-	2	2	-	3	-	-	-
CS201	3	3	3	-	-	-	-	-	1	1	-	1	2	2	1
CS291	3	3	-	-	-	-	-	-	1	1	-	1	2	1	2
ES201	2	3	-	-	-	-	-	-	2	2	-	2	-	-	-
ES291	2	2	-	-	-	-	-	-	2	1	-	2	-	-	-
M201	3	2	-	-	-	-	-	-	-	1	-	3	2	-	-
ME201	3	2	-	-	-	-	-	-	-	-	-	2	-	-	-
ME291	3	3	-	-	3	-	-	-	3	2	-	2	-	-	-
CH-301	3	3	2	2	1	-	-	-	-	1	-	2	-	-	-
CS-301	3	2	3	2	1	1	1	1	2	1	2	3	2	1	1
CS-302	3	3	3	-	-	-	-	-	2	2	-	-	3	3	2
CS-303	2	3	3	2	-	-	-	-	1	1	-	1	2	2	1
CS-391	3	3	3	1	1	2	2	2	2	3	2	2	3	3	1
CS-392	3	3	-	-	-	-	-	-	2	3	-	1	1	1	1
CS-393	2	2	2	-	-	-	-	-	1	1	-	1	2	2	1
HU-301	-	-	2	-	-	3	3	3	2	2	-	3	-	-	-
PH-301	3	2	-	-	-	-	-	-	-	2	-	2	-	-	-
PH-391	3	2	-	-	-	-	-	-	-	2	-	2	-	-	-
CS-401	3	3	2	2	-	-	-	-	-	2	-	2	3	3	2
CS-402	3	3	3	-	-	-	-	2	1	-	-	1	3	2	2
CS-403	3	3	-	3	-	-	-	-	2	2	-	-	2	3	2

CS-491	3	2	2	2	2	3	-	_	2	_	2	2	3	2	1
CS-492	2	2	3	-	-	-	-	1	-	-	1	2	2	3	3
CS-493	2	-	2	_	3	_	_	-	2	2	-	-	2	2	2
HU-481	-	_	-	_	-	_	_	_	3	3	_	3	-	-	-
M(CS)-	-		-		-	-	-	-		5	-	5	-	-	
491	2	2	2	2	3	-	-	-	-	2	-	2	2	2	1
M-401	2	3	3	1	2	2	-	-	-	2	1	2	2	3	2
MCS-401	3	3	3	1	1	-	-	-	1	1	-	2	2	1	1
CS-501	3	3	3	-	-	-	-	2	1	-	-	1	2	3	3
CS-502	3	3	3	1	2	2	1	2	2	2	1	2	3	2	2
CS-503	3	3	3	1	1	-	-	-	1	1	-	2	2	1	1
CS-504D	3	2	2	-	-	-	-	-	1	1	-	1	1	2	2
CS-591	2	2	3	-	-	-	-	2	1	-	1	1	3	2	2
CS-592	3	2	2	2	3	-	-	-	2	1	1	2	2	1	1
CS-593	3	3	2	2	3	-	-	-	-	2	-	2	3	2	2
CS-594D	2	3	2	-	1	-	-	-	1	1	1	2	2	3	2
HU-501	-	-	2	3	-	3	-	-	2	-	-	3	-	-	-
CS-601	3	3	-	-	1	-	-	-	1	1	-	-	1	3	2
CS-602	2	3	3	-	1	2	-	1	-	-	-	2	3	2	2
CS-603	3	2	-	-	-	-	-	-	2	1	-	1	3	2	2
CS-604C	2	2	-	2	-	-	-	-	-	-	-	1	1	2	1
CS-605A	3	3	3	1	1	-	-	-	1	1	-	2	2	1	1
CS-681	-	-	-	-	-	-	-	3	3	3	2	-	-	-	2
CS-691	2	3	-	-	-	-	-	-	2	2	-	1.5	2	3	2
CS-692	3	3	3	-	-	-	-	-	3	2	-	2	3	2	3
CS-693	3	-	-	2	2	-	-	-	3	2	-	1	2	3	1
HU-601	1	1	2	1	2	2	2	2	3	3	3	3	2	2	3
CS-701	2	3	3	-	-	-	-	2	1	-	2	-	2	3	3
CS-702	3	-	3	-	-	-	-	-	-	-	-	-	3	3	3
CS-703C	2	2	2	2	3	2	2	-	1	-	2	2	2	1	1
CS-704A	3	-	-	-	-	2	-	-	2	2	-	-	-	3	2
CS-705A	3	3	3	-	2	-	-	-	-	1	-	1	1	2	2
CS-791	2	2	3	-	-	-	-	1	2	-	2	2	2	3	3
CS-792	3	2	3	-	3	2	2	3	3	3	3	3	2	3	3
CS-793C	2	2	3	-	-	-	-	1	2	-	-	2	2	2	3
CS-794	2	3	3	3	3	3	3	2	3	1	3	3	3	3	2
CS-795A	2	-	-	-	1	3	-	-	2	1	-	1	2	2	2
HU-781	-	-	-	-	-	-	-	-	3	3	-	3	-	-	-
CS-801A	3	3	3	-	-	-	-	-	1	1	-	1	1	2	1
CS-802E	3	2	-	-	2	-	-	-	1	1	-	-	1	2	2
CS-891	2	2	3	-	1	-	-	-	-	-	-	1	3	2	3
CS-892	2	3	3	3	3	3	3	2	3	1	3	3	3	3	2
CS-893	2	3	3	-	-	-	-	-	-	3	-	3	2	2	3
HU-801A	-	-	-	-	-	-	-	-	3	3	-	3	-	-	-
2016- 2020 CO-PO- PSO	2.61	2.47	2.63	1.88	1.89	2.35	2.19	1.90	1.96	1.79	1.90	2.00	2.16	2.18	1.88

3.2 Attainment of Course Outcomes

(50)

3.2.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcome is based (10)

A. Course Outcome Assessment Process

The CO assessment tools used to measure the attainment levels may be in terms of student's performance in internal assessments such as tutorials, assignments, laboratory tests, project evaluation, project presentations, oral examinations, etc. and student's performance in University examination.

All the courses prescribed by the University for the Program under consideration may be divided into three broad categories viz. Theory Courses, Laboratory Courses and Project/Sessional Courses for the evaluation. The overall percentage distribution of marks for direct assessment methods is shown in *Table 3.2.1.1*.

	Table 3.2.1.1: Co	urse Outcome (CO) Att	ainment Evaluation Proc	ess							
Course Type	Assessment Type	Evaluation Through	Target Level	Distribution of Marks							
Direct Assessment											
Theory	Internal	Class Test	Students above 60% marks	30							
		Assignment	Students above 60% marks								
	External	University Exam. Score	Students above 60% marks	70							
Laboratory	Internal	Viva-voce	Students above 80% marks	40							
		Lab. Report	Students above 80% marks								
	External	University Exam. Score	Students above 80% marks	60							
Project/ Sessional	Internal	Rubrics	Students above 80% marks	100							
			Students above 80% marks								

B. Data Acquisition Process for CO Assessment

The assessment process for the courses are not just limited to measurement as indicated in the table above and may include some non-measurable parameters like value judgment. The data required for the assessment of attainment level of each CO is indicated *Table 3.2.1.1*. The data acquisition frequency and process is presented in *Table 3.2.1.2*.

Table 3.2.1.2: Data acquisition process for CO Assessment

Assessment Tool	Data Collection Frequency							
Class Test	Twice Every Semester (Till Session 2019 Even)							
Class Test	Four times in a Semester (From Session 2019-Odd)							
Assignment	Twice Every Semester(Till Session 2019 Even)							
Assignment	Four times in a Semester (From Session 2019-Odd)							
Viva-voce	Twice Every Semester							
Laboratory Report	Continuous							
University Examination	Semester wise							

C. Data Acquisition Guidelines

For effective evaluation of the Course Outcomes, department has created a robust system of data collections and analysis through a structure. The whole program is administered through a Program coordinator assisted by four-year wise coordinators under the guidance of head of the department. Various responsibilities of the coordinators, faculty members, technical assistants and students is as follows

B. Tech Program Coordinator

- Summarization of all CO attainments for assessment of POs and PSOs.
- Collection of data related to placements and higher studies etc.
- Attainment level Evaluation of POs & PSOs through direct & indirect methods.
- Recommendation of the corrective measures if any.

Year wise Coordinator

- Collection and summarization of data from departmental and non-department faculty members for the course for the assigned year of the program.
- Monitoring of continuous progress and student attendance.
- Enforcement of academic discipline.

Faculty and Technical Assistants

- Familiarization with Course objectives and course outcomes (along with their relevance of different POs and PSOs) before commencement of the class.
- Preparation of Lecture plan, question papers and evaluation of answer scripts.
- Summarization of data from direct assessment method relevant for each CO.

3.2.2 Record the attainment of Course Outcomes of all courses with respect to set attainment levels (40)

The attainment level of each course outcome is measured through percentage students getting marks above target level is shown in Table 3.2.2.1.

Table 3.2.2.1: Attainment level of Cours	e Outcome through various assessment tools
Attainment Level (AL)	Criteria
1	60% of students scoring above Target level
2	70% of students scoring above Target level
3	80% of students scoring above Target level

The sample CO attainment assessment process of CS-504D is shown below. The detailed evaluation for attainment of the CO through Internal assessment and University examination is shown below.

		SUBJECT: OBJE	CT ORIENI	ED PROGE	AMING			
	PAI	PER CODE: CS-504D SESSION	N: 2018 ODD	SEME	STER:5TH	YEAR: 3H	RD	
		A1: 60% OF STUDENTS	SCORING I	MORE THA	N 60% MA	RKS		
		A2: 70% OF STUDENTS	SCORING I	MORE THA	N 60% MA	RKS		
		A3: 80% OF STUDENTS			N 60% MA	RKS		
			RNAL ASSE					
		TABLE	1: CLASS T	EST DATA ASS TEST 1	(30)	C	LASS TEST 2(3	80)
SL NO	ROLL NO	STUDENT NAME	CO1	CO2	CO3	CO4	CO5	CO6
CO	NTRIBUTION OF EAC	TH CO IN QUESTION PAPER	7	12	11	12	10	8
1	10800116010	YASH PRAKASH	6	11	11	12	10	8
2	10800116011	YADIR KALAM	5	7	8	10	7	5
3	10800116012	VISHAL KEDIA	5	10	9	11	9	8
4	10800116013	VISHAL GUPTA	7	10	9	12	10	8
5	10800116014	VIKASH KUMAR	7	10	9	12	10	8
6	10800116015	VIKASH KUMAR	5	8	9	11	7	6
7	10800116016	VED PRAKASH	4	9	9	9	7	6
8	10800116017	VARTIKA KEDIA	7	9	8	11	8	7
9	10800116018	UJJAWAL KUMAR	4	6	6	7	5	4
10	10800116019	TRIPTI VERMA	5	10	9	11	9	6
11	10800116020	SYED NUR A FERDOUS	6	11	11	12	10	8
12	10800116021	SWETA KUMARI	7	9	8	11	7	6
13	10800116022	SWETA GUPTA	6	9	9	11	8	7
14	10800116023	SUNNY KUMAR	4	8	6	8	6	4
15	10800116024	SUMIT KUMAR MAJEE	5	11	10	11	9	8
16	10800116025	SUKHWINDER SINGH	6	11	9	12	10	8
17	10800116026	SUDIP DAS	6	11	9	12	9	7
18	10800116027	SUDHANYA GANDHI	6	11	11	12	10	8
19	10800116028	SUDHANSHU RANJAN	5	7	8	7	7	6
20	10800116029	SUBHO CHOWDHURY	6	9	9	11	9	6
21	10800116030	SUBHAM KUMAR MISHRA	4	8	8	8	8	6
22	10800116031	SUBHAM DEY	5	7	8	8	7	5

23	10800116032	SUBHADIP BHAKTA	4	6	6	7	7	6
24	10800116033	SOURAV KUMAR PASWAN	5	8	7	7	7	6
25	10800116034	SOURAV KESHRI	3	8	7	8	6	6
26	10800116035	SOURAV ACHERJEE	6	10	10	12	10	8
20	10800116036	SOUMEN GORAIN	5	7	6	9	6	5
28	10800116037	SOMNATH DAWN	7	11	10	12	10	8
28	10800116038	SNEHA KUMARI			9			
	10800116039	SIMRAN SINHA	4	9		8	8	6
30	10800116040	SIMRAN	4	8	6	7	6	5
31			6	7	7	7	7	6
32	10800116041	SHUBHAM KUMAR GUPTA SHUBHAM KUMAR	4	7	7	9	6	5
33	10800116042	AGARWAL	4	7	7	7	7	6
34	10800116043	SHUBHAM KUMAR	4	6	6	6	6	4
35	10800116044	SHREYASI MONDAL	5	9	8	10	7	7
36	10800116046	SHIVANI KUMARI	6	8	8	8	8	6
37	10800116047	SHIVAM	5	10	9	10	7	7
38	10800116048	SAYANTAN CHATTERJEE	5	9	8	9	8	7
39	10800116049	SAYAN CHAKRABORTY	6	10	8	9	8	7
40	10800116050	SAYAN BANIK	5	10	9	11	9	6
41	10800116051	SAYAM SUBHRA DAS	4	6	6	7	5	4
42	10800116052	SAURAV KUMAR JHA	5	7	6	7	6	5
43	10800116053	SATYA SACHIN MAHATO	4	8	8	10	7	5
44	10800116054	SANU KUMAR	6	10	8	10	9	7
44	10800116055	SANDIP PAUL				10	10	8
45	10800116056	SAIF ALI	6 5	11 7	11	8		4
	10800116057	SAHID RAJA			6		6	
47	10800116058	RUPAM KUMARI	7	10	9	12	9	7
48	10800116059	ROUNAK BISWAS	6	10	8	11	9	8
49	10800116060	ROSHAN KUMAR GUPTA	6	10	8	9	8	7
50		ROSHAN KUMAR GOPTA	4	8	8	9	8	5
51	10800116061		6	9	9	12	8	6
52	10800116062	ROHAN KUMAR SINGH	6	10	10	11	9	8
53	10800116063	RITESH SINGH	6	7	7	8	6	6
54	10800116064	RITESH PRASAD	6	9	9	10	7	7
55	10800116065	RASHMI KUMARI	5	10	9	12	8	6
56	10800116066	RANDHIR KUMAR	5	8	7	9	7	6
57	10800116067	RANDHIR KUMAR	6	10	8	11	8	7
58	10800116068	RAMARCH KUMAR	6	7	7	8	7	5
59	10800116069	RAJAT SINGH	5	7	8	8	7	5
60	10800116070	RAJAN KUMAR	5	7	8	9	8	7
61	10800116071	RAJ KISHAN	4	9	9	10	8	6
62	10800116072	RAHUL ROY	5	10	9	10	9	7
63	10800116073	RAHUL RAI	4	6	6	9	5	4
64	10800116074	RAHUL KUMAR CHATURBEDI	5	7	6	8	7	5
65	10800116075	RAHUL KUMAR	6	11	11	12	10	8
66	10800116076	QUREE KUMARI	6	11	9	12	10	8
67	10800116077	PRERNA SHARMA	4	9	9	9	7	6
68	10800116078	PRASUN SARKAR	6	7	7	8	6	6
69	10800116079	PRABHAT KUMAR	6	8	8	9	7	6
70	10800116080	POULAMI BHATTACHARJEE	6	8		8	7	5
70	10800116081	PIYALI BOSE	6	8	8	12	8	6
71	10800116082	NILESH KUMAR	6		<u>8</u> 9			8
12			0	11	7	12	10	0

73	10800116083	NILANJAN SAMADDAR	5	8	7	10	7	5
74	10800116084	NIKHIL KUMAR	3	8	7	9	5	4
75	10800116085	NEHA SINGH	4	8	8	9	8	5
76	10800116086	NAINA KUMARI	5	7	8	10	7	5
77	10800116087	MONOJIT DEY	7	11	10	12	10	8
78	10800116088	MONIDEEPA DEY	4	8	8	8	7	5
79	10800116089	MD MINHAJ KHAN	7	9	8	11	7	6
80	10800116090	MD FARAZ AHMAD	4	6	6	5	6	5
81	10800116091	MANISH KUMAR MEHTA	4	7	7	9	6	5
82	10800116092	MANAS KUMAR	6	9	9	10	7	7
	10800116093	KUSH KUMAR						
83	10800116094	KUNAL GAURAV	6	8	8	11	8	7
84	10800116094	KUMARI SANGEETA	5	8	7	9	7	6
85	10800116095		6	11	9	12	10	8
86		KUMARI MEGHA	6	8	8	12	8	6
87	10800116097	KOMAL KUMARI	7	9	8	11	8	7
88	10800116098	KISHAN KUSWAHA	4	8	8	9	8	5
89	10800116099	KIRTI	5	7	8	9	6	5
90	10800116100	KAUSHAL TIWARI	7	11	10	12	10	8
91	10800116101	GUDDU KUMAR	6	11	11	12	10	8
92	10800116102	FAROOQ ANSARI	7	10	9	11	9	6
93	10800116103	DIPESH KUMAR	6	9	9	11	9	6
94	10800116104	DEBDULAL	6	10	8	12	9	7
95	10800116105	CHANDAN KUMAR SINGH	5	6	5	7	7	6
96	10800116106	ARUN KUMAR PATEL	5	6	5	6	6	4
97	10800116107	ARNAB DAS	7	11	10	12	10	8
98	10800116108	ARKADEEP BAGAL	5	9	8	9	8	7
99	10800116109	ARIJIT NANDI	6	10	8	12	8	6
100	10800116111	ANUPAM GHOSH	7	10	9	12	10	8
101	10800116112	ANUJ KUMAR KESHRI	5	11	10	11	9	8
102	10800116113	ANMOL JALAN	6	11	9	12	10	8
103	10800116115	ANKIT AGARWAL	7	10	9	11	9	6
104	10800116116	ANKAN SHARMA	5	9	8	9	7	6
105	10800116117	ANJALI KUMARI	7	10	9	12	10	8
106	10800116118	ANIRBAN MANDAL	5	8	9	11	9	6
107	10800116119	ANIRBAN BANERJEE	6	10	10	11	8	7
108	10800116120	AMRITA SHREE	6	11	9	12	10	8
109	10800116122	AMEETA SOM	6	11	11	12	10	8
110	10800116123	AKASH SINGH	5	11	10	12	10	8
111	10800116124	AKASH SHAW	6	11	11	12	10	8
112	10800116125	AKASH CHOUDHARY	5	10	9	10	8	6
113	10800116126	AKASH BHADANI	5	8	7	9	8	5
114	10800116127	AKASH	6	11	9	12	9	7
115	10800116129	ABHISHEK KUMAR	5	9	8	10	9	7
116	10800116130	ABHISHEK DAS	5	8	9	10	8	6
117	10800116131	ABHISEK SAH	6	11	9	12	10	8
117	10800116132	ABHIRUP CHATTERJEE	5	11	10	12	9	7
119	10800116133	ABHINESH SINGH	7	9	8	12	8	6
119	10800116134	ABHIJIT KUMAR	7	10	<u> </u>	12	10	8
120	10800116135	ABHIJIT KUMAR	5	6	5	6	5	5
121	10800117001	Sujit Roy	7	0 11	10	12	10	8
	10800117003	Samrat Mitra	1					
123	10000117005		6	9	9	11	7	6
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121 1090011 7004 Raju Shanji 6 10 10 12 10 8 125 1090011 7005 Name Yalav 7 11 10 12 10 8 121 1090011 7005 Name Kamer Yalav 7 11 10 12 10 8 123 1090011 7006 Ankin Tivair 2 6 6 6 5 3 123 1090011 7006 Ankin Pascal 4 8 8 9 7 6 130 1090011 7006 Ankin Pascal 4 8 8 8 7 5 140 100011 7006 Ankin Pascal 4 8 8 8 7 5 1101 1090011 701 Amas Shah 4 8 8 7 5 11000011 700 FALT FALE FALSCANK 77.60 87.02 ROM 7 3 10011 701 Amas Shah 10 10 10 <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>										
	124	10800117004	Rajiv Ghanty	6	10	10	12	10	8	
12b 1080017005 Nisels Kumar Yadav 7 11 10 12 10 8 127 1080017007 Chandan Gloch 4 8 8 9 6 5 128 1080017009 Ankin Tisori 2 6 6 6 5 3 120 1080017010 Ankan Ghosh 6 11 9 12 10 8 131 1080017010 Ankan Ghosh 6 11 9 12 10 8 131 1080017010 Arast Subar 7.86 87.02 88.55 95.42 92.37 THEL2 ASSIGNMENT 10 12 8 11 10 3 STUDENT NAME 500 CO3 CO4 CO5 CO6 CONTRUPTION OFACIC ON ASSIGNMENT 10 12 8 11 10 3 1 1080016010 VASH RAAM 8 10 6 11 9 4 <td< td=""><td>125</td><td>10800117005</td><td>Rahul Singh</td><td>4</td><td>8</td><td>6</td><td>8</td><td>6</td><td>4</td></td<>	125	10800117005	Rahul Singh	4	8	6	8	6	4	
127 10890117007 Chandan Ghush 4 8 8 9 6 5 128 10800117008 Aukia Tixan 2 6 6 6 5 3 120 10800117009 Aukina Gkosh 4 8 8 9 7 6 130 10800117010 Aukina Gkosh 6 11 9 12 100 8 131 10800117011 Amar Sinha 4 8 8 9 7 5 TAILE 2 ASSIGNMENT TARCET OF 60% 76.6 77.66 77.86 87.62 87.62 87.62 87.62 87.61 7 10 7 3 3 108001601 YSBR PAKASH 10 12 8 11 10 3 1 3 1080016012 YEBAL KEDIA 10 12 8 11 10 3 1 10800116014 YADIR SALAM 8 10 6 11 6 11 6		10800117006								
		10800117007	Chandan Ghosh	1						
LDs 10800117009 Aukit Pranad 1 2 5 5 0 2 1 130 10800117010 Aukana Ghodh 6 11 9 12 110 8 131 10800117010 Auras Sinba 4 8 8 7 5 *0 STUDENTS ABOVE TARGET OF 60% 78.63 77.86 87.02 88.55 9.5.42 92.37 TABLE 2 ASSIGNMENT TO CO2 CO3 CO4 CO5 CO6 CONTRIBUTION OF PACH CO IN ASSIGNMENT 10 12 8 11 10 3 2 10800116011 YABR KALAM 8 10 6 11 7 3 3 10800116014 VIKHAL EDIA 10 10 12 8 11 10 3 4 10800116014 VIKHAL EDIA 10 12 8 11 10 3 6 10800146014 VIKASH KUMAR 7 11 6								1		
120 10800117010 Ankana Ghosh 6 11 9 12 10 8 131 10800117011 Amar Sinha 4 8 8 8 7 5 *6 OF STUDENTS ABOVE TARGET OF 60% 78,63 77,86 87,02 88,55 95,42 92,37 SL ROLL NO STUDENT NAME CONTRIBUTION OF EACH CO IN ASSIGNMENT 10 12 8 15 10 5 1 10800116010 YASH PRAKASHI 10 12 8 11 10 3 10800116011 YABIR KALAM 8 10 6 11 7 3 10800116012 VISHAL KUPIA 10 12 8 11 10 3 6 10800116014 VIKASH KUMAR 7 11 6 10 8 3 7 10800116014 VIKASH KUMAR 5 9 4 9 6 3 10800116014 VIKASH KUMAR 5 9							-			
103 10800117011 Amar Sinha 2 10 2 10 2 10 10 2 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11				1						
100 100 <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td>				1						
Instruction Instruct of the second seco	131			4	8	8	8	7	5	
St. NO STUDENT NAME ASSIGNMENT ASSIGNMENT ASSIGNMENT CONTRIBUTION OF EACH CO IN ASSIGNMENT 10 12 8 15 10 5 1 1080011601 YASH PRAKASH 10 12 8 11 10 3 2 10800116012 YASH PRAKASH 10 10 12 8 11 10 3 3 10800116012 VISHAL KEDIA 10 12 8 11 10 3 6 10800116014 VIRASH KUMAR 1 11 6 10 8 3 7 10800116015 VIRASH KUMAR 7 11 6 10 8 3 10 10800116017 VARIKA KEDIA 9 11 7 11 7 3 9 10800116015 VIRASH KUMAR 5 9 4 9 6 3 10 10800116024 SUMAVA KUMAR 5 9 4 9 6 <td></td> <td colspan="2">% OF STUDENTS ABOVE TARGET OF 60%</td> <td>78.63</td> <td>77.86</td> <td>87.02</td> <td>88.55</td> <td>95.42</td> <td>92.37</td>		% OF STUDENTS ABOVE TARGET OF 60%		78.63	77.86	87.02	88.55	95.42	92.37	
NO ROLL NO STUDENT NAME COI CO2 CO3 CO4 CO5 CO6 CONTRIBUTION OF EACIL CO IN ASSIGNMENT 10 12 8 11 10 3 1 10800116010 VASH PRAKASH 10 12 8 11 10 3 2 10800116012 VISHAL KEDIA 10 10 7 11 9 4 4 10800116013 VISHAL KEDIA 10 12 8 11 10 3 6 10800116013 VIKASH KUMAR 10 12 8 11 6 4 8 10800116016 VIKASH KUMAR 7 11 6 10 8 3 10 10800116017 VARTIKA KEDIA 9 11 7 11 7 3 10 10800116017 VARTIKA KEDIA 9 11 7 3 11 10800116017 VARTIKA KEDIA 9 11 7 3 11			TABLE	2 ASSIGNMENT DATA						
NO CO1 CO2 CO3 CO4 CO5 CO6 CONTRIBUTION OF EACH CO IN ASSIGNMENT 10 12 8 15 10 5 1 10800116011 YASH PRAKASH 10 12 8 11 10 3 2 10800116012 VISHAL KEDIA 10 10 7 11 9 4 4 10800116013 VISHAL KEDIA 10 12 8 11 10 3 6 10800116015 VIKASH KUMAR 10 12 8 11 10 8 3 7 10800116015 VIKASH KUMAR 7 11 6 10 8 3 10 10800116017 VARTIKA KEDIA 9 11 7 11 7 11 7 3 10 10800116010 TRIPT VERMA 6 12 6 10 8 3 11 1080011602 SUUR A FEEDOUS 10 12	SL	DOLL NO	STUDENT NAME	AS	ASSIGNMENT 1			ASSIGNMENT	2	
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2 19800116011 YADIR KALAM 8 10 6 11 7 3 3 10800116012 VISHAL KEDIA 10 10 7 11 9 4 4 10800116013 VISHAL GUPTA 10 12 8 11 10 3 6 10800116014 VIKASH KUMAR 10 12 8 11 10 3 7 10800116016 VED PRAKASH 8 10 6 11 6 4 8 10800116017 VARTKA KEDIA 9 11 7 11 7 3 9 10800116017 VARTKA KEDIA 9 11 7 11 7 3 10 1080011602 SWETA KUMAR 5 9 4 9 6 3 11 1080011602 SWETA KUMAR 7 9 5 8 7 3 11 1080011602 SUMIT KUMAR MAIEE 10 10 <td>(</td> <td>CONTRIBUTION OF EA</td> <td>ACH CO IN ASSIGNMENT</td> <td>10</td> <td>12</td> <td>8</td> <td>15</td> <td>10</td> <td>5</td>	(CONTRIBUTION OF EA	ACH CO IN ASSIGNMENT	10	12	8	15	10	5	
2 10 0 10 0 11 9 4 3 10800116012 VISHAL KEDIA 10 112 8 112 8 4 5 10800116013 VISHAL GUTTA 10 12 8 11 10 3 6 10800116015 VIKASH KUMAR 10 12 8 11 6 4 6 10800116015 VIKASH KUMAR 7 11 6 10 8 3 7 10800116017 VARTIKA KEDIA 9 11 7 11 7 3 9 16800116018 UJAWAL KUMAR 5 9 4 9 6 3 10 1000016018 WILWAR KARA 6 12 6 10 8 3 11 1080011602 SWETA KUMAR 8 10 6 10 7 12 8 4 13 10800116023 SUNNY KUMAR 7 9	1	10800116010	YASH PRAKASH	10	12	8	11	10	3	
4 10800116013 VISHAL GUPTA 10 12 8 12 8 4 5 10800116014 VIKASH KUMAR 10 12 8 11 10 3 6 10800116015 VIKASH KUMAR 7 11 6 10 8 3 7 10800116016 VED PRAKASH 8 10 6 11 6 4 8 10800116017 VARTIKA KEDIA 9 11 7 11 7 3 9 10800116019 TRITT VERMA 6 12 6 10 8 3 11 1080011602 SWETA KUMARI 8 10 6 10 7 4 13 10800116023 SUNNY KUMAR 7 9 5 8 7 3 14 10800116025 SUKHWINDER SINGH 10 12 8 12 8 4 10 10625 SUHANSH KUMAR MISHRA 7	2	10800116011	YADIR KALAM	8	10	6	11	7	3	
5 10800116014 VIKASH KUMAR 10 12 8 11 10 3 6 10800116015 VIKASH KUMAR 7 11 6 10 8 3 7 10800116016 VED PRAKASH 8 10 6 11 7 3 9 10800116017 VARTIKA KEDIA 9 11 7 11 7 11 7 3 9 10800116020 SYED NIR A FERDOUS 10 12 8 15 10 5 11 10800116021 SWETA KUMAR 6 12 6 10 7 4 13 10800116023 SUNTY KUMAR 7 9 5 8 7 3 16 10800116024 SUMTI KUMAR MAJEE 10 10 7 12 8 4 17 10800116025 SUHIWINDER SINGH 10 12 8 15 7 5 10 10800116028 <	3	10800116012	VISHAL KEDIA	10	10	7	11	9	4	
	4	10800116013	VISHAL GUPTA	Î	12	8	12	8	4	
7 10800116016 VED PRAKASH 8 10 6 11 6 4 8 10800116017 VARTKA KEDIA 9 11 7 11 7 3 9 10800116018 UJJAWAL KUMAR 5 9 4 9 6 3 10 10800116020 SYED NUR A FERDOUS 10 12 8 15 10 5 12 10800116021 SWETA KUMAR 8 10 6 10 7 4 13 10800116023 SUNNY KUMAR 7 9 5 8 7 3 15 10800116024 SUMIT KUMAR MAJEE 10 10 7 12 9 3 16 10800116025 SUDHANYA GANDHI 10 12 8 15 7 5 19 10800116024 SUDHANYA GANDH 10 12 8 17 12 8 4 10 10 7 12 <td>5</td> <td>10800116014</td> <td>VIKASH KUMAR</td> <td>10</td> <td>12</td> <td>8</td> <td>11</td> <td>10</td> <td>3</td>	5	10800116014	VIKASH KUMAR	10	12	8	11	10	3	
8 10800116017 VARTIKA KEDIA 9 11 7 11 7 3 9 10800116018 UJJAWAL KUMAR 5 9 4 9 6 3 10 10800116019 TRIPTI VERMA 6 12 6 10 8 3 11 10800116021 SWETA KUMARI 8 10 6 10 7 4 13 10800116022 SWETA KUMAR 7 9 5 8 7 3 15 10800116024 SUMTK VIMAR 7 9 5 8 7 3 16 10800116025 SUMHKUMAR MARE 10 10 7 12 8 4 17 10800116026 SUDHANSH RAMAR MARE 10 10 7 12 8 4 17 10800116027 SUDHANSH RANIAN 6 10 5 9 6 3 20 10800116030 SUBHAD MENIANIA 7	6	10800116015	VIKASH KUMAR	7	11	6	10	8	3	
9 10800116018 UJIAWAL KUMAR 5 9 4 9 6 3 10 10800116019 TRIPTI VERMA 6 12 6 10 8 3 11 10800116020 SYED NUR A FERDOUS 10 12 8 15 10 5 12 10800116021 SWETA KUMARI 8 10 6 10 7 4 13 10800116023 SUNNY KUMAR 7 9 5 8 7 3 16 10800116024 SUMIT KUMAR MAJEE 10 10 7 12 8 4 17 10800116025 SUMIT KUMAR MAJEE 10 10 7 12 8 4 18 10800116027 SUDHAN'A GANDHI 10 12 8 15 7 5 10 10800116028 SUDHAN KUMAR MISHRA 7 11 6 111 7 3 21 10800116031 SUBHAN CHOWDHURY	7	10800116016	VED PRAKASH	8	10	6	11	6	4	
10 10800116019 TRIPTI VERMA 6 12 6 10 8 3 11 10800116020 SYED NUR A FERDOUS 10 12 8 15 10 5 12 10800116021 SWETA KUMARI 8 10 6 10 7 4 13 10800116023 SUNY KUMAR 7 9 5 8 7 3 15 10800116023 SUNY KUMAR 7 9 5 8 7 3 16 10800116025 SUKHWINDER SINCH 10 12 8 12 8 4 17 10800116026 SUDIP DAS 10 10 7 12 8 4 18 10800116028 SUDHANYA GANDHI 10 12 8 13 10800116029 SUBHAN KUMAR MISHRA 7 11 6 11 7 3 21 10800116030 SUBHAM KUMAR MISHRA 7 8 6 8 <t< td=""><td>8</td><td>10800116017</td><td>VARTIKA KEDIA</td><td>9</td><td>11</td><td>7</td><td>11</td><td>7</td><td>3</td></t<>	8	10800116017	VARTIKA KEDIA	9	11	7	11	7	3	
10 10800116020 SYED NUR A FERDOUS 10 12 8 15 10 5 12 10800116021 SWETA KUMARI 8 10 6 10 7 4 13 10800116021 SWETA KUMARI 8 10 6 10 7 4 14 10800116022 SWETA GUPTA 10 10 7 12 8 4 14 10800116024 SUMIY KUMAR 7 9 5 8 7 3 16 10800116025 SUKHWINDER SINGH 10 12 8 12 8 4 17 10800116026 SUDHANSHU RANIAN 6 10 5 9 6 3 10 10800116029 SUBHANSHU RANIAN 6 10 5 9 6 3 20 10800116030 SUBHAN KUMAR NISHRA 7 11 6 111 7 3 31 10800116033 SOURAV KUMAR PASWAN	9	10800116018	UJJAWAL KUMAR	5	9	4	9	6	3	
12 10800116021 SWETA KUMARI 10 11 11 11 11 10 10 10 7 11 <td>10</td> <td>10800116019</td> <td>TRIPTI VERMA</td> <td>6</td> <td>12</td> <td>6</td> <td>10</td> <td>8</td> <td>3</td>	10	10800116019	TRIPTI VERMA	6	12	6	10	8	3	
13 10800116022 SWETA GUPTA 10 10 17 12 8 4 14 10800116023 SUNNY KUMAR 7 9 5 8 7 3 15 10800116024 SUMIT KUMAR MAJEE 10 10 7 12 9 3 16 10800116025 SUKHWINDER SINGH 10 12 8 12 8 4 17 10800116025 SUDHANYA GANDHI 10 12 8 15 7 5 19 10800116027 SUDHANYA GANDHI 10 12 8 15 7 5 19 10800116028 SUDHANSHU RANJAN 6 10 5 9 6 3 20 10800116030 SUBHAM KUMAR MISHRA 7 11 6 11 7 3 21 10800116031 SUBHAM PASWAN 8 10 6 8 7 3 22 10800116033 SOURAV KUMAR PASWAN </td <td>11</td> <td>10800116020</td> <td>SYED NUR A FERDOUS</td> <td>10</td> <td>12</td> <td>8</td> <td>15</td> <td>10</td> <td>5</td>	11	10800116020	SYED NUR A FERDOUS	10	12	8	15	10	5	
10 10 10 10 10 10 10 10 10 11 14 10800116023 SUNNY KUMAR 7 9 5 8 7 3 15 10800116024 SUMIT KUMAR MAJEE 10 10 7 12 9 3 16 10800116025 SUKHWINDER SINGH 10 10 7 12 8 4 17 10800116027 SUDHANSH GANDHI 10 12 8 15 7 5 19 10800116028 SUDHANSH GANDHI 10 12 6 11 10 3 21 10800116030 SUBHAN KUMAR MISHRA 7 11 6 11 7 3 22 10800116031 SUBHADIP BHAKTA 7 8 6 8 8 2 24 10800116035 SOURAV KUMAR PASWAN 8 10 6 11 7 3 25 10800116035 SOURAV KESH	12	10800116021	SWETA KUMARI	8	10	6	10	7	4	
15 10800116024 SUMIT KUMAR MAJEE 10 10 7 12 9 3 16 10800116025 SUKHWINDER SINGH 10 12 8 12 8 4 17 10800116026 SUDIP DAS 10 10 7 12 8 4 18 10800116027 SUDHANYA GANDHI 10 12 8 15 7 5 19 10800116028 SUDHANSHU RANJAN 6 10 5 9 6 3 20 10800116029 SUBHAO CHOWDHURY 6 12 6 11 10 3 21 10800116031 SUBHAM KUMAR MISHRA 7 11 6 8 7 3 22 10800116033 SOURAV KUMAR PASWAN 8 10 6 11 7 3 25 10800116033 SOURAV KUMAR PASWAN 8 10 6 11 7 3 27 10800116035 SOUMAV	13	10800116022	SWETA GUPTA	10	10	7	12	8	4	
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17 10800116026 SUDIP DAS 10 10 7 12 8 4 18 10800116027 SUDHANYA GANDHI 10 12 8 15 7 5 19 10800116028 SUDHANSHU RANJAN 6 10 5 9 6 3 20 10800116029 SUBHO CHOWDHURY 6 12 6 11 10 3 21 10800116030 SUBHAM KUMAR MISHRA 7 11 6 11 7 3 22 10800116031 SUBHADIP BHAKTA 7 8 6 8 8 2 24 10800116033 SOURAV KUMAR PASWAN 8 10 6 11 7 3 25 10800116034 SOURAV KESHRI 7 8 6 8 8 2 26 10800116035 SOURAV ACHERJEE 9 10 8 11 10 3 27 10800116038 SNEHA KUMARI	15	10800116024	SUMIT KUMAR MAJEE	10	10	7	12	9	3	
18 10800116027 SUDHANYA GANDHI 10 12 8 15 7 5 19 10800116028 SUDHANSHU RANJAN 6 10 5 9 6 3 20 10800116029 SUBHO CHOWDHURY 6 12 6 11 10 3 21 10800116030 SUBHAM KUMAR MISHRA 7 11 6 11 7 3 22 10800116031 SUBHAM DEY 5 10 6 8 7 3 23 10800116033 SOURAV KUMAR PASWAN 8 10 6 11 7 3 25 10800116034 SOURAV KUMAR PASWAN 8 10 6 11 7 3 25 10800116035 SOURAV ACHERJEE 9 10 8 11 10 3 27 10800116035 SOURAN GORAIN 7 9 5 9 6 3 28 10800116037 SOMNATH DAWN <td>16</td> <td>10800116025</td> <td>SUKHWINDER SINGH</td> <td>10</td> <td>12</td> <td>8</td> <td>12</td> <td>8</td> <td>4</td>	16	10800116025	SUKHWINDER SINGH	10	12	8	12	8	4	
19 10800116028 SUDHANSHURANJAN 6 10 5 9 6 3 20 10800116029 SUBHO CHOWDHURY 6 12 6 11 10 3 21 10800116030 SUBHAM KUMAR MISHRA 7 11 6 11 7 3 22 10800116031 SUBHAM DEY 5 10 6 8 7 3 23 10800116032 SUBHADIP BHAKTA 7 8 6 8 8 2 24 10800116033 SOURAV KUMAR PASWAN 8 10 6 11 7 3 25 10800116034 SOURAV KESHRI 7 8 6 8 8 2 26 10800116035 SOURAV ACHERJEE 9 10 8 11 10 3 27 10800116036 SOUMAN TH DAWN 10 12 8 15 10 5 29 10800116037 SOMATH DAWN	17	10800116026	SUDIP DAS	10	10	7	12	8	4	
D D	18	10800116027	SUDHANYA GANDHI	10	12	8	15	7	5	
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1 1	20	10800116029	SUBHO CHOWDHURY	6	12	6	11	10	3	
23 10800116032 SUBHADIP BHAKTA 7 8 6 8 2 24 10800116033 SOURAV KUMAR PASWAN 8 10 6 11 7 3 25 10800116034 SOURAV KESHRI 7 8 6 8 8 2 26 10800116035 SOURAV ACHERJEE 9 10 8 11 10 3 27 10800116036 SOUMEN GORAIN 7 9 5 9 6 3 28 10800116037 SOMNATH DAWN 10 12 8 15 10 5 29 10800116038 SNEHA KUMARI 8 9 7 11 6 4 30 10800116040 SIMRAN 6 10 5 8 8 2 31 10800116041 SHUBHAM KUMAR GUPTA 5 10 6 8 7 3 32 10800116042 SHUBHAM KUMAR AGARWAL 7 <td< td=""><td>21</td><td>10800116030</td><td>SUBHAM KUMAR MISHRA</td><td>7</td><td>11</td><td>6</td><td>11</td><td>7</td><td>3</td></td<>	21	10800116030	SUBHAM KUMAR MISHRA	7	11	6	11	7	3	
24 10800116033 SOURAV KUMAR PASWAN 8 10 6 11 7 3 25 10800116034 SOURAV KESHRI 7 8 6 8 8 2 26 10800116035 SOURAV ACHERJEE 9 10 8 11 10 3 27 10800116036 SOUMEN GORAIN 7 9 5 9 6 3 28 10800116037 SOMNATH DAWN 10 12 8 15 10 5 29 10800116038 SNEHA KUMARI 8 9 7 11 6 4 30 10800116049 SIMRAN SINHA 6 10 5 8 8 2 31 10800116040 SIMRAN 6 9 6 10 8 3 32 10800116041 SHUBHAM KUMAR GUPTA 5 10 6 8 7 3 33 10800116042 SHUBHAM KUMAR 5	22	10800116031	SUBHAM DEY	5	10	6	8	7	3	
25 10800116034 SOURAV KESHRI 7 8 6 8 8 2 26 10800116035 SOURAV ACHERJEE 9 10 8 11 10 3 27 10800116036 SOUMAN ACHERJEE 9 10 8 11 10 3 28 10800116037 SOMNATH DAWN 10 12 8 15 10 5 29 10800116038 SNEHA KUMARI 8 9 7 11 6 4 30 10800116039 SIMRAN SINHA 6 10 5 8 8 2 31 10800116040 SIMRAN 6 9 6 10 8 3 32 10800116041 SHUBHAM KUMAR GUPTA 5 10 6 8 7 3 33 10800116042 SHUBHAM KUMAR 7 8 6 8 7 3 34 10800116043 SHUBHAM KUMAR 5	23	10800116032	SUBHADIP BHAKTA	7	8	6	8	8	2	
26 10800116035 SOURAV ACHERJEE 9 10 8 11 10 3 27 10800116036 SOUMEN GORAIN 7 9 5 9 6 3 28 10800116037 SOMNATH DAWN 10 12 8 15 10 5 29 10800116038 SNEHA KUMARI 8 9 7 11 6 4 30 10800116039 SIMRAN SINHA 6 10 5 8 8 2 31 10800116040 SIMRAN SINHA 6 10 5 8 8 2 31 10800116040 SIMRAN 6 9 6 10 8 3 32 10800116041 SHUBHAM KUMAR GUPTA 5 10 6 8 7 3 33 10800116042 SHUBHAM KUMAR AGARWAL 7 8 6 8 7 3 34 10800116043 SHUBHAM KUMAR 5	24	10800116033	SOURAV KUMAR PASWAN	8	10	6	11	7	3	
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32 5 10 5 10 5 10 5 10 5 10 5 10 5 10 5 10 5 10 5 10 5 10 5 10 5 10 5 10 <th10< th=""> <th10< th=""> <th< td=""><td>31</td><td>10800116040</td><td>SIMRAN</td><td>6</td><td>9</td><td>6</td><td>10</td><td>8</td><td>3</td></th<></th10<></th10<>	31	10800116040	SIMRAN	6	9	6	10	8	3	
33 10800116042 AGARWAL 7 8 6 8 7 3 34 10800116043 SHUBHAM KUMAR 5 8 5 9 6 3 35 10800116044 SHREYASI MONDAL 8 9 7 11 6 4 36 10800116046 SHIVANI KUMARI 7 11 6 11 6 4 37 10800116047 SHIVAM 8 9 7 11 6 4 38 10800116048 SAYANTAN CHATTERJEE 7 11 6 11 6 4 39 10800116049 SAYAN CHAKRABORTY 7 10 7 11 7 3	32	10800116041		5	10	6	8	7	3	
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36 10800116046 SHIVANI KUMARI 7 11 6 11 6 4 37 10800116047 SHIVAM 8 9 7 11 6 4 38 10800116048 SAYANTAN CHATTERJEE 7 11 6 11 6 4 39 10800116049 SAYAN CHAKRABORTY 7 10 7 11 7 3	34	10800116043	SHUBHAM KUMAR	5	8	5	9	6	3	
30 7 11 6 1 37 10800116047 SHIVAM 8 9 7 11 6 4 38 10800116048 SAYANTAN CHATTERJEE 7 11 6 11 6 4 39 10800116049 SAYAN CHAKRABORTY 7 10 7 11 7 3	35	10800116044	SHREYASI MONDAL	8	9	7	11	6	4	
37 37 38 10800116048 SAYANTAN CHATTERJEE 7 11 6 11 6 4 39 10800116049 SAYAN CHAKRABORTY 7 10 7 11 7 3	36	10800116046	SHIVANI KUMARI	7	11	6	11	6	4	
30 7 11 0 11 0 1 39 10800116049 SAYAN CHAKRABORTY 7 10 7 11 7 3	37	10800116047	SHIVAM	8	9	7	11	6	4	
	38	10800116048	SAYANTAN CHATTERJEE	7	11	6	11	6	4	
	39	10800116049	SAYAN CHAKRABORTY	7	10	7	11	7	3	
40 10800116050 SAYAN BANIK 7 10 7 12 9 3	40	10800116050	SAYAN BANIK	7	10	7	12	9	3	

41	10800116051	SAYAM SUBHRA DAS	6	10	5	8	7	3
42	10800116052	SAURAV KUMAR JHA	5	10	6	9	6	3
43	10800116053	SATYA SACHIN MAHATO	7	10	6	11	7	3
44	10800116054	SANU KUMAR	7	10	7	11	7	3
	10800116055	SANDIP PAUL			8		8	
45	10800116055	SAIF ALI	10	12		15		4
46		SAHD RAJA	6	10	5	8	7	3
47	10800116057		10	9	8	12	8	4
48	10800116058	RUPAM KUMARI	9	10	8	11	9	4
49	10800116059	ROUNAK BISWAS	7	11	6	11	6	4
50	10800116060	ROSHAN KUMAR GUPTA	8	9	7	10	7	4
51	10800116061	ROHIT KUMAR MAJEE	10	9	8	12	8	4
52	10800116062	ROHAN KUMAR SINGH	9	10	8	12	9	3
53	10800116063	RITESH SINGH	7	11	6	10	7	4
54	10800116064	RITESH PRASAD	8	9	7	11	7	3
55	10800116065	RASHMI KUMARI	8	9	7	11	6	4
56	10800116066	RANDHIR KUMAR	5	10	6	11	7	3
57	10800116067	RANDHIR KUMAR	7	11	6	12	8	4
58	10800116068	RAMARCH KUMAR	6	12	6	11	6	4
59	10800116069	RAJAT SINGH	6	10	5	8	7	3
60	10800116070	RAJAN KUMAR	6	12	6	10	7	4
61	10800116071	RAJ KISHAN	7	11	6	10	8	3
62	10800116072	RAHUL ROY	8	12	7	11	7	3
63	10800116073	RAHUL RAI	6	10	5	8	7	3
05	1020011/074	RAHUL KUMAR	0	10			,	
64	10800116074	CHATURBEDI	5	11	5	9	6	3
65	10800116075	RAHUL KUMAR	10	12	8	15	10	5
66	10800116076	QUREE KUMARI	10	12	8	15	7	5
67	10800116077	PRERNA SHARMA	8	9	7	10	8	3
68	10800116078	PRASUN SARKAR	5	10	6	11	6	4
69	10800116079	PRABHAT KUMAR	7	10	7	10	8	3
70	10800116080	POULAMI BHATTACHARJEE	7	9	5	10	8	3
71	10800116081	PIYALI BOSE	7	10	7	11	7	3
72	10800116082	NILESH KUMAR	10	12	8	15	8	4
73	10800116083	NILANJAN SAMADDAR	8	9	7	11	7	3
74	10800116084	NIKHIL KUMAR	7	8	6	9	6	3
75	10800116085	NEHA SINGH	8	9	7	10	7	4
76	10800116086	NAINA KUMARI	5	11	5	10	7	4
70	10800116087	MONOJIT DEY	10	11	8	15	10	5
78	10800116088	MONIDEEPA DEY	7	9	5	10	8	3
78	10800116089	MD MINHAJ KHAN	7	11	6	10	7	3
80	10800116090	MD FARAZ AHMAD	5		5	9	7	2
	10800116090	MANISH KUMAR MEHTA		11 °				
81	10800116091	MANISH KUMAR MEHTA	7	8	6	10	8	3
82			7	11	6	10	7	4
83	10800116093	KUSH KUMAR	8	9	7	10	8	3
84	10800116094	KUNAL GAURAV	7	9	5	11	6	4
85	10800116095	KUMARI SANGEETA	10	9	8	11	10	3
86	10800116096	KUMARI MEGHA	7	11	6	11	7	3
87	10800116097	KOMAL KUMARI	7	10	7	12	8	4
88	10800116098	KISHAN KUSWAHA	6	9	6	10	7	4
89	10800116099	KIRTI	6	10	5	10	7	4
90	10800116100	KAUSHAL TIWARI	10	12	8	12	8	4
91	10800116101	GUDDU KUMAR	10	12	8	11	10	3
92	10800116102	FAROOQ ANSARI	8	11	8	11	9	4
93	10800116103	DIPESH KUMAR	10	10	7	11	7	3
94	10800116104	DEBDULAL	8	12	7	11	10	3
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95 10800116105 CHANDAN KUMAR SINGH 7 9 5 8 8 96 10800116107 ARUN KUMAR PATEL 6 7 5 7 6 97 10800116107 ARNAD DAS 10 12 8 15 7 98 10800116107 ARNAD DAS 10 12 8 11 6 1 100 10800116112 ANUPAM GHOSH 10 12 8 11 10 101 10800116112 ANUPAM GHOSH 10 12 8 11 6 104 10800116115 ANKIA SHARMA 7 11 6 11 6 104 10800116116 ANKAN SHARMA 7 11 6 11 6 105 10800116118 ANKAN SHARMA 7 11 6 11 6 106 10800116119 ANKAN SHARMA 7 11 6 11 7 106 1080011612	
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102 103 104 105 11 11 105 102 10800116113 ANKIT AGARWAL 10 9 8 12 8 104 10800116115 ANKIT AGARWAL 10 9 8 12 8 104 10800116116 ANKAN SHARMA 7 11 6 11 6 105 10800116118 ANIKAL KUMARI 10 12 8 15 7 106 10800116120 AMRITA SHREE 7 12 8 12 8 109 10800116120 AMRITA SHREE 7 12 8 15 7 110 10800116123 AKASH SINGH 10 12 8 11 10 111 10800116124 AKASH SINGH 10 12 8 11 7 114 10800116127 AKASH 100 12 8 12 8 115 10800116130 ABHISHEK KUMAR 8	5
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121 10 10 10 10 10 10 10 10 10 11 10 10 11 10 10 11 10 10 11 <t< td=""><td>5</td></t<>	5
122 10 12 10 10 10 123 10800117003 Samrat Mitra 7 10 7 10 7 124 10800117004 Rajiv Ghanty 10 12 8 12 9 125 10800117005 Rahul Singh 7 9 5 8 7 126 10800117006 Nitesh Kumar Yadav 10 12 8 15 10 127 10800117007 Chandan Ghosh 8 9 7 10 8 128 10800117008 Ankita Tiwari 4 10 4 8 5 129 10800117009 Ankit Prasad 7 11 6 11 7 130 10800117010 Ankana Ghosh 10 12 8 11 9 131 1080011701 Amar Sinha 7 11 6 11 7 TABLE 3. CO ATTAINMENT CALCULATION INTERNAL ASSESSMENT	3
120 10 10 10 10 10 10 12 10 12 9 10 124 10800117004 Rajiv Ghanty 10 12 8 12 9 10 12 10 12 9 10 12 10 12 9 10 12 10 12 9 10 12 10 10 12 10 10 12 10 10 12 10 10 12 10 10 12 10 10 12 10 10 12 10 10 12 10 10 12 10 10 12 10 10 12 10 10 12 10 10 12 10 10 12 10 10 12 10 11 10 11 10 11 10 11 1	5
125 10800117005 Rahul Singh 7 9 5 8 7 126 10800117006 Nitesh Kumar Yadav 10 12 8 15 10 127 10800117007 Chandan Ghosh 8 9 7 10 8 128 10800117008 Ankita Tiwari 4 10 4 8 5 129 10800117009 Ankit Prasad 7 11 6 11 7 130 10800117010 Ankana Ghosh 10 12 8 11 9 131 10800117010 Ankana Ghosh 7 11 6 11 7 ***********************************	4
126 10800117006 Nitesh Kumar Yadav 10 12 8 15 10 127 10800117007 Chandan Ghosh 8 9 7 100 8 128 10800117008 Ankita Tiwari 4 10 4 8 5 129 10800117009 Ankit Prasad 7 11 6 11 7 130 10800117010 Ankana Ghosh 10 12 8 11 9 131 10800117011 Amar Sinha 7 11 6 11 7 * OF STUDENTS ABOVE TARGET OF 60% 91.60 99.24 98.47 88.55 99.24	3
127 10800117007 Chandan Ghosh 8 9 7 10 8 128 10800117008 Ankita Tiwari 4 10 4 8 5 129 10800117009 Ankita Tiwari 4 10 4 8 5 130 10800117009 Ankita Prasad 7 11 6 11 7 130 10800117010 Ankana Ghosh 10 12 8 11 9 9 131 10800117011 Amar Sinha 7 11 6 11 7 ***********************************	3
128 10800117008 Ankita Tiwari 4 10 4 8 5 129 10800117009 Ankit Prasad 7 11 6 11 7 130 10800117010 Ankana Ghosh 10 12 8 11 9 131 10800117011 Amar Sinha 7 11 6 11 7 */>* OF STUDENTS ABOVE TARGET OF 60% 91.60 99.24 98.47 88.55 99.24	5
120 100 1	3
130 10800117010 Ankana Ghosh 10 12 8 11 9 131 10800117011 Amar Sinha 7 11 6 11 7 *⁄* OF STUDENTS ABOVE TARGET OF 60% 91.60 99.24 98.47 88.55 99.24	2
131 10800117011 Amar Sinha 7 11 6 11 7 * OF STUDENTS ABOVE TARGET OF 60% 91.60 99.24 98.47 88.55 99.24 TABLE 3. CO ATTAINMENT CALCULATION INTERNAL ASSESSMENT	3
% OF STUDENTS ABOVE TARGET OF 60% 91.60 99.24 98.47 88.55 99.24 TABLE 3. CO ATTAINMENT CALCULATION INTERNAL ASSESSMENT	4
TABLE 3. CO ATTAINMENT CALCULATION INTERNAL ASSESSMENT	3
	94.66
Internal Assessment Contribution CO1 CO2 CO3 CO4 CO5	
	CO6
% above target in class test (CT From Table 1) 78.63 77.86 87.02 88.55 95.42	92.37
% above target in assignment (AT From Table 2) 91.60 99.24 98.47 88.55 99.24	94.66
Weighted Avg (CT*0.6 + AT*0.4) 83.81679 86.41221 91.60305 88.54962 96.94656 96.94656	93.28244
Attainment level for each CO (AL) 3 3 3 3	3

	EXTERNAL ASSESSMENT DATA FOR CS-504D										
	TAI	BLE 4: DATA OF UNI	VERSITY SEM	IESTER EXAMIN	ATION						
SL NO	STUDENT NAME	ROLL NO	GRADE	AVERAGE MARKS	INTERNAL MARKS	EXTERNAL MARKS					
1	10800116010	YASH PRAKASH	A(32.0)	75	28	47					
2	10800116011	YADIR KALAM	B(28.0)	65	22	43					
3	10800116012	VISHAL KEDIA	E(36.0)	85	25	60					
4	10800116013	VISHAL GUPTA	E(36.0)	85	27	58					

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7 10800116016 VED PRAKASH B(28.0) 65 23 42 8 10800116017 VARTIKA KEDIA E(36.0) 85 25 60 9 10800116018 UJJAWAL C(24.0) 55 18 37 10 10800116019 TRIPTI VERMA A(32.0) 75 24 51 11 10800116020 SYED NUR A A(32.0) 75 28 47 12 10800116021 SWETA KUMARI A(32.0) 75 24 51 13 10800116021 SWETA KUMARI A(32.0) 75 24 51 14 10800116023 SUMIT KUMAR B(28.0) 65 20 45 15 10800116024 MAIEE O(40.0) 95 26 69 16 10800116025 SUKHWINDER A(32.0) 75 27 48 17 10800116026 SUDP DAS A(32.0) 75 26 49 18 10800116027
7 10800116016 VED PRAKASH B(28.0) 65 23 42 8 10800116017 VARTIKA KEDIA E(36.0) 85 25 60 9 10800116018 UJJAWAL C(24.0) 55 18 37 10 10800116019 TRIPTI VERMA A(32.0) 75 24 51 11 10800116020 SYED NUR A A(32.0) 75 28 47 12 10800116021 SWETA KUMARI A(32.0) 75 24 51 13 10800116021 SWETA KUMARI A(32.0) 75 24 51 14 10800116023 SUMIT KUMAR B(28.0) 65 20 45 15 10800116024 MAIEE O(40.0) 95 26 69 16 10800116025 SUKHWINDER A(32.0) 75 27 48 17 10800116026 SUDP DAS A(32.0) 75 26 49 18 10800116027
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9 10800116018 KUMAR C(24.0) 55 18 37 10 10800116019 TRIPTI VERMA A(32.0) 75 24 51 11 10800116020 SYED NUR A FERDOUS A(32.0) 75 28 47 12 10800116021 SWETA KUMARI A(32.0) 75 24 51 13 10800116022 SWETA GUPTA E(36.0) 85 25 60 14 10800116023 SUNNY KUMAR B(28.0) 65 20 45 15 10800116024 SUMIT KUMAR MAJEE O(40.0) 95 26 69 16 10800116025 SUKHWINDER SINGH A(32.0) 75 27 48 17 10800116026 SUDIP DAS A(32.0) 75 28 47 18 10800116027 SUDHANYA GANDHI A(32.0) 75 28 47 19 10800116028 SUDHANSHU RANJAN C(24.0) 55 21 34 2
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28 10800116037 SOMNATH DAWN E(36.0) 85 28 57
29 10800116038 SNEHA KUMARI B(28.0) 65 23 42
30 10800116039 SIMRAN SINHA C(24.0) 55 20 35
31 10800116040 SIMRAN C(24.0) 55 21 34
SHIBHAM
32 10800116041 SHOBINAN KUMAR GUPTA C(24.0) 55 20 35
SHUBHAM
10800116042 KUMAR B(28.0) 65
33 AGARWAL 20 45 10000116042 SHUBHAM 6/24.0) 55 55
34 10800116043 SHUBHAM KUMAR C(24.0) 55 18 37
35 10800116044 SHKE FAST MONDAL B(28.0) 65 23 42
36 10800116046 SHIVANI KUMARI B(28.0) 65 23 42
37 10800116047 SHIVAM B(28.0) 65 24 41
SAYANTAN
38 10800116048 SATABULA A(32.0) 75 23 52
10800116049 SAYAN A(32.0) 75
39 CHAKRABORTY 24 51
40 10800116050 SAYAN BANIK A(32.0) 75 24 51
10800116051 SAYAM SUBHRA C(24.0) 55 10 26
41 DAS 19 30
10800116052 SAURAV KUMAR C(24.0) 55 20 25
42 JHA 20 35
43 10800116053 SATYA SACHIN D(20.0) 45 22 23
43 10800116053 MAHATO D(20.0) 45 22 23

46	10800116056	SAIF ALI	D(20.0)	45	20	25
47	10800116057	SAHID RAJA	A(32.0)	75	26	49
48	10800116058	RUPAM KUMARI	E(36.0)	85	25	60
49	10800116059	ROUNAK BISWAS	A(32.0)	75	24	51
50	10800116060	ROSHAN KUMAR GUPTA	D(20.0)	45	22	23
51	10800116061	ROHIT KUMAR MAJEE	A(32.0)	75	25	50
52	10800116062	ROHAN KUMAR SINGH	E(36.0)	85	26	59
53	10800116063	RITESH SINGH	C(24.0)	55	20	33
54	10800116064	RITESH PRASAD	A(32.0)	75	24	51
55	10800116065	RASHMI KUMARI	A(32.0)	75	24	51
	10800116065	RANDHIR	B(28.0)	65		
56		KUMAR RANDHIR			21	44
57	10800116067	KUMAR	A(32.0)	75	24	51
58	10800116068	RAMARCH KUMAR	B(28.0)	65	22	43
59	10800116069	RAJAT SINGH	B(28.0)	65	21	44
60	10800116070	RAJAN KUMAR	D(20.0)	45	22	23
61	10800116071	RAJ KISHAN	B(28.0)	65	23	42
62	10800116072	RAHUL ROY	A(32.0)	75	25	50
63	10800116073	RAHUL RAI	F(8.0)	39	19	20
64	10800116074	RAHUL KUMAR CHATURBEDI	D(20.0)	45	20	25
65	10800116075	RAHUL KUMAR	A(32.0)	75	28	47
66	10800116076	QUREE KUMARI	A(32.0)	75	27	48
00	10800116077	PRERNA	B(28.0)	65	21	
67	10800110077	SHARMA	B(20.0)	05	23	42
68	10800116078	PRASUN SARKAR	F(8.0)	39	21	18
69	10800116079	PRABHAT KUMAR	B(28.0)	65	23	42
70	10800116080	POULAMI BHATTACHARJEE	B(28.0)	65	21	44
71	10800116081	PIYALI BOSE	B(28.0)	65	23	42
72	10800116082	NILESH KUMAR	A(32.0)	75	27	48
73	10800116083	NILANJAN SAMADDAR	F(8.0)	39	22	17
74	10800116084	NIKHIL KUMAR	B(28.0)	65	20	45
74	10800116085	NEHA SINGH	C(24.0)	55	20	33
75	10800116086	NAINA KUMARI	B(28.0)	65	22	44
70	10800116087	MONOJIT DEY	A(32.0)	75	21	44 47
77	10800116088	MONIDEEPA DEY	C(24.0)	55	28	34
	10800116089	MD MINHAJ	B(28.0)	65		
79	10800116090	KHAN MD FARAZ	C(24.0)	55	24	41
80	10800116091	AHMAD MANISH KUMAR	B(28.0)	65	19	36
81	10800116091	MEHTA MANAS KUMAR		65 75	20	45
82			A(32.0)		24	51
83	10800116093	KUSH KUMAR	B(28.0)	65	23	42
84	10800116094	KUNAL GAURAV KUMARI	B(28.0)	65	21	44
85	10800116095	SANGEETA	A(32.0)	75	26	49
86	10800116096	KUMARI MEGHA	A(32.0)	75	23	52
87	10800116097	KOMAL KUMARI	A(32.0)	75	24	51
88	10800116098	KISHAN KUSWAHA	D(20.0)	45	21	24
89	10800116099	KIRTI	B(28.0)	65	21	44

90	10800116100	KAUSHAL TIWARI	A(32.0)	75	28	47
91	10800116101	GUDDU KUMAR	A(32.0)	75	28	47
92	10800116102	FAROOQ ANSARI	E(36.0)	85	26	59
93	10800116103	DIPESH KUMAR	A(32.0)	75	25	50
94	10800116104	DEBDULAL	E(36.0)	85	25	60
95	10800116105	CHANDAN KUMAR SINGH	C(24.0)	55	19	36
96	10800116106	ARUN KUMAR PATEL	C(24.0)	55	18	37
97	10800116107	ARNAB DAS	A(32.0)	75	28	47
98	10800116108	ARKADEEP BAGAL	B(28.0)	65	23	42
99	10800116109	ARIJIT NANDI	A(32.0)	75	24	51
100	10800116111	ANUPAM GHOSH	A(32.0)	75	27	48
101	10800116112	ANUJ KUMAR KESHRI	A(32.0)	75	26	49
102	10800116113	ANMOL JALAN	E(36.0)	85	26	59
103	10800116115	ANKIT AGARWAL	E(36.0)	85	26	59
104	10800116116	ANKAN SHARMA	B(28.0)	65	23	42
105	10800116117	ANJALI KUMARI	A(32.0)	75	27	48
106	10800116118	ANIRBAN MANDAL	A(32.0)	75	23	52
107	10800116119	ANIRBAN BANERJEE	A(32.0)	75	26	49
108	10800116120	AMRITA SHREE	E(36.0)	85	26	59
109	10800116122	AMEETA SOM	E(36.0)	85	28	57
110	10800116123	AKASH SINGH	E(36.0)	85	27	58
111	10800116124	AKASH SHAW	E(36.0)	85	28	57
112	10800116125	AKASH CHOUDHARY	A(32.0)	75	24	51
113	10800116126	AKASH BHADANI	B(28.0)	65	22	43
114	10800116127	AKASH	E(36.0)	85	27	58
115	10800116129	ABHISHEK KUMAR	A(32.0)	75	23	52
116	10800116130	ABHISHEK DAS	A(32.0)	75	23	52
117	10800116131	ABHISEK SAH	A(32.0)	75	27	48
118	10800116132	ABHIRUP CHATTERJEE	E(36.0)	85	27	58
119	10800116133	ABHINESH SINGH	A(32.0)	75	25	50
120	10800116134	ABHIJIT KUMAR	E(36.0)	85	27	58
121	10800116135	ABHIJIT KUMAR	C(24.0)	55	19	36
122	10800117001	Sujit Roy	A(32.0)	75	28	47
123	10800117003	Samrat Mitra	A(32.0)	75	24	51
124	10800117004	Rajiv Ghanty	A(32.0)	75	27	48
125	10800117005	Rahul Singh	B(28.0)	65	20	45
126	10800117006	Nitesh Kumar Yadav	A(32.0)	75	28	47
127	10800117007	Chandan Ghosh	D(20.0)	45	22	23
128	10800117008	Ankita Tiwari	C(24.0)	55	17	38
129	10800117009	Ankit Prasad	C(24.0)	55	22	33
130	10800117010	Ankana Ghosh	A(32.0)	75	27	48
131	10800117011	Amar Sinha	D(20.0)	45	22	23
	PERCENTAGE (OF STUDENTS ABOV	E 60% MARI	KS		74
	Α	TTAINMENT LEVEL				2
	TAI	BLE 5.OVERALL CO	ATTAINMEN	T LEVEL CA	LCULATION	
T N T	FERNAL ATTAINMENT	CO1	CO2	CO3	CO4 CO	5 CO6

INTERNAL ATTAINMENT CONTRIBUTION	CO1	CO2	CO3	CO4	CO5	

	Attainment of each CO in University Exam	2	2	2	2	2	2	2
	Attainment of each CO in Internal Assessment	3	3	3	3	3	;	3
	Weighted Avg (Ext*0.7 + Int*0.3)	2.3	2.3	2.3	2.3	2.	3	2.3
Cou	urse Attainment for one cours	e of each set	mester (3rd	to 8th Sen	nester) is sh	own in tab	le 3.2.2.2	
	Table 3.2.2.2: Course Outc	ome Attainme	ent for one co	urse of each	semester (da	uta from Resu	ult Analysis)	
	Course Outcomes -	\rightarrow	C01	CO2	CO3	CO4	CO5	CO6
	% above target level in class tes	st	86.61	72.44	83.46	92.91	73.23	90.55
	% above target level in assignm	ent	87.40	96.06	96.06	87.40	91.34	84.25
CS-302	Weighted Avg (CT*0.6 + AT*0	0.4)	86.92913	81.88976	88.50394	90.70866	80.47244	88.0315
S.	Attainment level for each CO		3	3	3	3	3	3
	Attainment Level for each CO t	hrough						
	University Examination (Y)	· · · · · · · (77)	1	1	1	1	1	1
	Overall Attainment Level for (0.3*X+0.7*Y)	$each(\mathbf{Z}) =$	1.6	1.6	1.6	1.6	1.6	1.6
	Course Outcomes -	\rightarrow	C01	CO2	CO3	CO4	CO5	CO6
CS-403	% above target level in class test		95.12	86.99	86.99	95.12	94.31	91.87
	% above target level in assignm	% above target level in assignment		100.00	98.37	91.06	100.00	85.37
	Weighted Avg (CT*0.6 + AT*0.4)		94.79675	92.19512	91.54472	93.49593	96.58537	89.26829
	Attainment level for each CO		3	3	3	3	3	3
	Attainment Level for each CO t University Examination (Y)	hrough	2	2	2	2	2	2
	Overall Attainment Level for	each $(\mathbf{Z}) =$	2	2	2	2	2	2
	(0.3*X+0.7*Y)		2.3	2.3	2.3	2.3	2.3	2.3
	Course Outcomes -		CO1	CO2	CO3	CO4	CO5	CO6
	% above target level in class test		78.63	77.86	87.02	88.55	95.42	92.37
9	% above target level in assignment		91.60	99.24	98.47	88.55	99.24	94.66
-504D	Weighted Avg ($CT*0.6 + AT*0.4$)		83.81679	86.41221	91.60305	88.54962	96.94656	93.28244 3
CS	Attainment level for each CO (AL) Attainment Level for each CO through		3	3	3	3	3	
	University Examination (Y)		2	2	2	2	2	2
	Overall Attainment Level for	each $(\mathbf{Z}) =$						2.3
	(0.3*X+0.7*Y) Course Outcomes	```	2.3 CO1	2.3 CO2	2.3 CO3	2.3 CO4	2.3 CO5	CO6
	% above target level in class tes		90.40	96.80	94.40	96.80	100.00	100.00
	% above target level in assignm		90.40	100.00	100.00	90.80	99.20	85.60
5	Weighted Avg ($CT*0.6 + AT*0$		93.6	98.08	96.64	97.76	99.68	94.24
CS-602	Attainment level for each CO		3	3	3	3	3	3
C C	Attainment Level for each CO t		5	5	5	3	5	5
	University Examination (Y)		2	2	2	2	2	2
	Overall Attainment Level for (0.3*X+0.7*Y)	each $(\mathbf{Z}) =$	2.3	2.3	2.3	2.3	2.3	2.3
	Course Outcomes -	\rightarrow	CO1	CO2	CO3	CO4	CO5	2.5
	% above target level in class tes		87.20	95.20	84.00	85.60	97.60	
	% above target level in assignm		100.00	100.00	99.20	100.00	98.40	
701	Weighted Avg (CT*0.6 + AT*0	0.4)	92.32	97.12	90.08	91.36	97.92	
CS-701	Attainment level for each CO		3	3	3	3	3	
	Attainment level for each CO (AL) Attainment Level for each CO through		3	2	2	2	2	
	University Examination (Y)			3	3	3	3	
	University Examination (Y) Overall Attainment Level for	each $(\mathbf{Z}) =$	5					
	Overall Attainment Level for (0.3*X+0.7*Y)		3	3	3	3	3	
CS -	Overall Attainment Level for			3 CO2	3 CO3	3 CO4	3 CO5	

	1					
% above target level in class test	100.00	100.00	100.00	100.00	100.00	
% above target level in assignment	100.00	100.00	100.00	100.00	100.00	
Weighted Avg (CT*0.6 + AT*0.4)	100	100	100	100	100	
Attainment level for each CO (AL)	3	3	3	3	3	
Attainment Level for each CO through University Examination (Y)	3	3	3	3	3	
Overall Attainment Level for each (Z) = (0.3*X+0.7*Y)	3	3	3	3	3	
	% above target level in assignment Weighted Avg (CT*0.6 + AT*0.4) Attainment level for each CO (AL) Attainment Level for each CO through University Examination (Y) Overall Attainment Level for each (Z) =	% above target level in assignment100.00Weighted Avg (CT*0.6 + AT*0.4)100Attainment level for each CO (AL)3Attainment Level for each CO through University Examination (Y)3Overall Attainment Level for each (Z) =3	% above target level in assignment100.00100.00Weighted Avg (CT*0.6 + AT*0.4)100100Attainment level for each CO (AL)33Attainment Level for each CO through University Examination (Y)33Overall Attainment Level for each (Z) =33	% above target level in assignment 100.00 100.00 100.00 Weighted Avg (CT*0.6 + AT*0.4) 100 100 100 Attainment level for each CO (AL) 3 3 3 Attainment Level for each CO through University Examination (Y) 3 3 3 Overall Attainment Level for each (Z) = 3 3 3	% above target level in assignment 100.00 100.00 100.00 Weighted Avg (CT*0.6 + AT*0.4) 100 100 100 100 Attainment level for each CO (AL) 3 3 3 3 Attainment Level for each CO through University Examination (Y) 3 3 3 3 Overall Attainment Level for each (Z) = 3 3 3 3	% above target level in assignment 100.00 100.00 100.00 100.00 Weighted Avg (CT*0.6 + AT*0.4) 100 100 100 100 100 Attainment level for each CO (AL) 3 3 3 3 3 Attainment Level for each CO through University Examination (Y) 3 3 3 3 3 Overall Attainment Level for each (Z) = 3 3 3 3 3 3

Attainment of the Course Outcome of all Courses including first Semester is shown in Table 3.2.2.3

А	ttainment of Co	urse Outcome	of all 1st Sen	nester Courses	\$	
Course Code	C01	CO2	CO3	CO4	CO5	COe
ES101	1	1	1	1	1	1
ES191	3	3	3	3	3	3
HU101	3	2.7	3	3	3	3
HU181	3	3	3	3	3	-
M101	1.6	1.6	1.6	1.6	1.6	1.6
ME101	2.3	2.3	2.3	2.3	2.3	-
ME192	0.6	0.6	1.4	1.8	1.8	-
PH101	1.6	1.3	1.3	1.6	1.6	1.3
PH191	2	2	1.6	2.4	2.4	2
XC181	3	3	3	3	3	3
At	ttainment of Cou	irse Outcome	of all 2nd Ser	nester Courses	s	I
Course Code	CO1	CO2	CO3	CO4	CO5	CO6
CH201	2.3	2.3	2.3	2.3	2.3	2.3
CH291	2.4	2.4	2.1	2.7	2.7	2.4
CS201	2.3	2.3	2.3	2.3	2	-
CS291	1.2	2	1.6	2	-	-
ES201	1.3	1	1	1.6	1	1.3
ES291	2.6	3	2.6	2.6	2.6	2.6
M201	1.6	1.3	1.3	1.6	1.6	1.3
ME201	3	3	2.7	3	2.7	-
ME291	1.6	1.6	2.4	2.4	1.6	-

Course Code	C01	CO2	CO3	CO4	CO5	CO6			
CH-301	1.6	1.3	1.3	1.6	1.6	1.6			
CS-301	1.7	2	1.7	1.7	-	-			
CS-302	1.6	1.6	1.6	1.6	1.6	1.6			
CS-303	0.9	0.9	0.9	0.9	0.3	-			
CS-391	3	3	3	3	-	-			
CS-392	2	2	2	2	-	-			
CS-393	3	2.6	2.2	3	-	-			
HU-301	3	3	3	3	3	3			
PH-301	2.3	2.3	2	2.3	2.3	2.3			
PH-391	2.6	2.6	2.2	3	2.6	2.2			
Attainment of Course Outcome of all 4 th Semester Courses									
Course Code	CO1	CO2	CO3	CO4	CO5	CO6			
CS-401	2.3	2.3	2.3	2.3	2.3	2			
CS-402	1.6	1.6	1.6	1.6	1.3	-			
CS-403	2.3	2.3	2.3	2.3	2.3	2.3			
CS-491	2	2	2	2.4	-	-			
CS-492	3	2.6	2.2	2.6	-	-			
CS-493	2.6	2.6	3	3	-	-			
HU-481	3	3	3	3	3	-			
M(CS)-491	2.7	3	2.7	3	3	3			
M-401	1.6	1.6	1.6	1.6	1.6	1.6			
MCS-401	3	3	3	3	3	3			
A	ttainment of Co	urse Outcome	e of all 5 th Sen	nester Courses	;				
Course Code	C01	CO2	CO3	CO4	CO5	CO6			
CS-501	3	3	3	3	3	-			
CS-502	1.3	1.3	1.6	1.6	-	-			
CS-503	2.3	2.3	2.3	2.3	2.3	2.3			
CS-504D	2.3	2.3	2.3	2.3	2.3	2.3			
CS-591	2	1.2	1.2	2	-	-			
CS-592	2.6	3	2.6	2.6	-	-			

CS-593	3	3	3	3	1	1			
CS-594D	2.2	2.2	1.8	2.6	2.2	-			
HU-501	2.3	2.3	2.3	2.3	2.3	2.3			
Α	ttainment of Co	urse Outcome	of all 6 th Sem	nester Courses	;				
Course Code	C01	CO2	CO3	CO4	CO5	CO6			
CS-601	3	3	3	3	3	3			
CS-602	2.3	2.3	2.3	2.3	2.3	2.3			
CS-603	2.3	2.3	2.3	2.3	2	-			
CS-604C	3	3	3	3	3	-			
CS-605A	2.3	2.3	2.3	2.3	2.3	2.3			
CS-681	1	3	2	1	-	-			
CS-691	3	3	3	3	-	-			
CS-692	3	2.6	2.2	3	-	-			
CS-693	3	2.2	2.2	3	-	-			
HU-601	2.3	2.3	2.3	2.3	2.3	2.3			
Attainment of Course Outcome of all 7 th Semester Courses									
Course Code	C01	CO2	CO3	CO4	CO5	CO6			
CS-701	3	3	3	3	3	-			
CS-702	3	3	3	3	3	-			
CS-703C	3	3	3	3	3	3			
CS-704A	2.3	2.3	2.3	2.3	2.3	2.3			
CS-705A	2.3	2.3	2.3	2.3	2.3	2.3			
CS-791	1.6	1.6	1.6	1.6	-	-			
CS-792	2	3	2	3	3				
CS-793C	2.2	3	3	3	-	-			
CS-794	3	3	3	3	3	-			
CS-795A	1.8	3	2.6	2.6	-	-			
HU-781	3	3	3	3	3	-			
	Attainment o	f Course Outo	come of all 8 th	Semester	I	1			
	C01	CO2	CO3	CO4	CO5	COG			
Course Code									

ĺ	CS-802E	3	3	3	3	3	-
	CS-891	2.6	2.6	2.2	3	2.6	-
	CS-892	3	3	3	3	3	-
	CS-893	2	0	2	1	3	-
	HU-801A	3	3	3	3	3	3

3.3 Attainment of Program Outcomes and Program Specific Outcomes (50)

3.3.1 Describe assessment tools and processes used for measuring the attainment of each of the Program Outcomes and Program Specific Outcomes (10)

Various tools used to ascertain the said **Program Outcomes (POs) and Program Specific Outcomes (PSOs)** may be classified into to broad categories as direct and indirect assessment tools. Various data collection methodology, collection cycle etc. are elaborated in the Table 3.3.1.1 below:

	Table 3.3.1	U	utcome (POs) and Pro tainment Evaluation P	gram Specific Outcome Process	
	Course Type	Assessment Type	Evaluation Through	Target Level	Distributio n of Marks
			Direct Assessme	ent	
	Theory	Internal	Class Test	Students above 60% marks	30
			Assignment	Students above 60% marks	
Direct		External	University Exam. Score	Students above 60% marks	70
	Laboratory	Internal	Viva-voce	Students above 80% marks	40
			Lab. Report	Students above 80% marks	
		External	University Exam. Score	Students above 80% marks	60
	Project/ Sessional	Internal	Rubrics	Students above 80% marks	100
				Students above 80% marks	

Process for Indirect Assessment of Attainment of POs and PSOs

The assessment methods used for indirect attainment of POs are:

Program Exit Survey: The survey is undertaken by the 8th semester students annually.

Process for Assessment

The attainment level of POs through Program exit Survey is obtained by taking the average of the attainment level rated by the student in the form as:

Student Assessment	Attainment Level	Student Assessment	Attainment Level
Poor	0	Good	2
Satisfactory	1	Excellent	3

Attainment of **PO**-*i* through Program exit Survey is calculated as all the scores given by the survey participants against the said PO.

Snapshot of Program Exit Survey is shown below

1		Assessment of Abilities, Skills and Attributes Acquired at Asansol Engine	ering	Colleg	ge	
			Le	el of p	repard	ation
ASANSOL ENGINEERING COLLEGE Vivekananda Sarani, Kanyapur, Asansol, West Bengal 713305 Affiliation: Maulana Abul Kalam Azad University of Technology, West Bengal	Rate a	each of the following skills, abilities or attributes in terms of how well Asansol Engineering ge has prepared you. (Please Tick the appropriate block)	Excellent (3)	(2)	Satisfactory (1)	(0)
(Formerly Known as West Bengal University of Technology) Approved by AICTE	51.	Skills, abilities and attributes	Excelle	Good (2)	Satisfa	Poor (
PROGRAM EXIT SURVEY FORM	1	Knowledge of mathematics, physics and engineering	1	1		
(To be filled up by Final Year Student Enrolled in any Program at Asansol Engineering College)	2	Ability of Problem Analysis	1			
Dear Students,	3.	Complex Engineering Problem Investigation	1			1
At Asansol Engineering College we are dedicated to the continuous improvement of undergraduate engineering programs. The	4.	Design of process, system or component to meet desired industrial needs				
Information that you provide through this survey will be very helpful in this process. We appreciate your contribution and support in filling out this survey.	5.	Usage of state of the art techniques and tools in engineering practice	5			
	6.	Recognizes the societal and environment impact of his/her work	1			
Regards Sd/-	7.	Awareness of health, safety, legal and other contemporary issues	1		-	
Principal	8.	Professional and ethical responsibilities	1			
Name- & Vertika Kedia Year of Graduation- 2010 Gender-M/F	9.	Team work & Leadership abilities	1			
Univ. Roll No 10500 116017 Program. CLE	10	3. Skill sets needed to work in multidisciplinary domain	1	1		
x / • • • • • • • • • • • • • • • • • •	11	1. Communicate Skills	10			
Please Tick the appropriate block	17	2. Project management and Finance			-	
Vintend to work in the government sector	1	3. Ability to design efficient algorithms	V	/		-
I intend to go for higher studies. I lintend to start my own business.		4. Ability to apply standard software engineering approach and modern tools for software development	10	1		
I intend to do other things (pleasespecify):	1	15. Ability to apply acquired proficiency to become successful technocrats and engage in research	1			
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1 Hammalins and Management		ž			
4. Department// Depresenter Lidgerin.		1			
8. Quality of neurrorities and support for learning given by ischnical associates		1			
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E States & Engineering Laboration					
2 Computing Tackitian		1			
4 Ubrane					
		1.			
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The overall Attainment process of POs and PSOs are shown in Table 3.3.1.2

Tabi	le 3.3.1.2 Overall Attainmen	nt Process of each POs and PSOs	
Type of Assessment	Assessment Tool	Assessment Criteria	Data Collection frequency
Direct (80%)	Internal and External Assessment	Average of attainment of COs with PO/PSO.	Once every semester
Indirect (20%)	Program Exit Survey	Program Exit Survey	Annually

Attainment process of POs and PSOs of course Object Oriented Programming, course code CS-504D of Batch: 2016-2020 is shown below.

								· F	or course (
						Correle	ation betwee	n CO and P	0 for CS-504	4D						
Course	COs	P01	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
	CS-504D.1	3	-	-	-	-	-	-	-	1	1	-	1	-	2	2
	CS-504D.2	3	-	-	-	-	-	-	-	1	1	-	-	-	1	-
04D	CS-504D.3	3	-	-	-	-	-	-	-	1	1	-	-	-	1	2
S-50	CS-504D.4	-	2	-	-	-	-	-	-	1	1	-	1	-	2	1
Ŭ	CS-504D.5	-	2	-	-	-	-	-	-	1	1	-	1	-	3	2
	CS-504D.6	-	-	2	-	-	-	-	-	1	1	-	-	1	2	2
	CS-504D.1	3	2	2	-	-	-	-	-	1	1	-	1	1	2	2

Attainment process of course CS504D

Course Outcomes →	CS-504D.1	CS-504D.2	CS-504D.3	CS-504D.4	CS-504D.5	CS-504D.6
% of students above 60% marks of question contribution for each CO in Class Test (P)	78.63	77.86	87.02	88.55	95.42	92.37
% of students above 60% marks of question contribution for each CO in Assignment (\mathbf{Q})	91.60	99.24	98.47	88.55	99.24	94.66
% Attainment of each CO through Internal Assessment (R)=(0.6* P +0.4* Q)	83.81679	86.41221	91.60305	88.54962	96.94656	93.28244
Attainment Level for each CO through Internal Assessment (X)	3	3	3	3	3	3
Attainment Level for each CO through University Examination (Y)	2	2	2	2	2	2
Overall Attainment Level for each Z = (0.7*X+0.3*Y)	2.3	2.3	2.3	2.3	2.3	2.3

Attainment of the PO1 for CS - 504D. 1 is $2.3 = \frac{3(Weight of COCS - 504D.1 for PO - 1) + 22}{3(mertfrom attainment level)}$

R.			-		-					30	aax imum o	ittainment	level)				
	Course	Attainment of Cos							Pos								
	Cos	\land	PO1	PO2	PO3	<u>P04</u>	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
	CS-504D.1	2.3	2.30	_	-	-	-	-	-	-	0.77	0.77	-	0.77	-	1.53	1.53
040	CS-504D.2	2.3	2.30	-	-	-	-	-	-	-	0.77	0.77	-	-	-	0.77	-
S-504D	CS-504D.3	2.3	2.30	-	-	-	-	-	-	-	0.77	0.77	-	-	-	0.77	1.53
0	CS-504D.4	2.3	-	1.53	-	-	-	-	-	-	0.77	0.77	-	0.77	-	1.53	0.77
	CS-504D.5	2.3	-	1.53	-	-	-	-	-	-	0.77	0.77	-	0.77	-	2.30	1.53
	CS-504D.6	2.3	-	-	1.53	-	-	-	-	-	0.77	0.77	_	-	0.77	1.53	1.53
	CS-504D Attainment			1.53	1.53	-	-	-	-	-	0.77	0.77	-	0.77	0.77	1.41	1.38

3.3.2 Result results of evaluation of each PO and PSO

PO and PSO attainment through direct assessment for all the courses (i.e. theory, laboratory and project/sessional) for Batch 2016-2020 has been calculated and is summarized in Table 3.3.2.1

			Table	3321	PO-PSO	Assessi	nent hv	Direct A	ttainmen	nt for all i	the Cour	ses			
COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
ES101	0.89	0.78	_	_	-	-	-	-	0.5	0.78	-	0.89	_	_	_
ES191	2.0	2.0	-	-	-	-	_	2.0	2.0	1.0	-	2.0	3.0	3.0	1.0
HU101	-	-	-	-	-	-	1.97	1.97	2.95	2.95	-	2.95	-	-	-
HU181	-	-	-	-	-	-	-	-	3	3	-	3	-	-	-
M101	1.60	1.07	-	-	-	-	-	-	-	0.53	-	1.60	1.07	-	-
ME101	2.30	1.53	-	-	-	-	-	-	-	-	-	1.53	-	-	-
ME192	0.99	0.87	-	-	-	-	-	-	1.20	0.41	-	0.83	-	-	-
PH101	1.45	0.97	-	-	-	-	-	-	-	0.97	-	0.97	-	-	-
PH191	2.07	1.38	-	-	-	-	-	-	2.07	1.38	-	1.38	-	-	-
XC181	-	-	-	-	-	3	3	3	3	3	-	3	-	-	2
CH201	2.3	1.53	-	-	-	2.3	-	-	-	1.53	-	1.53	-	-	-
CH291	2.45	1.63	-	-	-	-	1.63	-	1.63	1.63	-	2.45	-	-	-
CS201	2.30	2.15	2.30	-	-	-	-	-	0.74	0.74	-	0.75	1.49	1.21	0.73
CS291	2.00	1.60	-	-	-	-	-	-	0.57	0.57	-	0.57	1.13	0.62	1.03
ES201	0.91	0.97	-	-	-	-	-	-	0.54	0.57	-	0.8	-	-	-
ES291	2.07	1.92	-	-	-	-	-	-	1.78	0.9	-	1.32	-	-	-
M201	1.38	0.97	-	-	-	-	-	-	-	0.48	-	0.97	0.97	-	-
ME201	2.88	1.92	-	-	-	-	-	-	-	-	-	1.92	-	-	-
ME291	1.71	1.71	-	-	1.60	-	-	-	1.92	1.28	-	1.17	-	-	-
CH-301	1.5	1.5	1	1	0.5	-	-	-	-	0.5	-	1	-	-	-
CS-301	1.15	0.85	0.98	0.85	0.38	0.38	0.38	0.13	0.68	0.38	0.85	0.93	0.55	0.38	0.38
CS-302	1.6	1.6	1.6	-	-	-	-	-	1.1	1.1	-	-	1.6	1.6	1.1
CS-303	0.53	0.90	0.60	0.40	-	-	-	-	0.26	0.26	-	0.26	0.64	0.36	0.33
CS-391	3	2.75	2.75	1	1	1.75	2	2	2	2.75	2	2	3	2.75	1
CS-392	2.00	2.00	-	-	-	-	-	-	1.33	2.00	-	0.67	0.67	0.67	0.67
CS-393	1.73	1.73	1.87	-	-	-	-	-	0.90	0.90	-	0.90	1.80	1.62	0.96
HU-301	-	-	2.00	-	-	3.00	3.00	3.00	2.00	2.00	-	3.00	-	-	-
PH-301	2.08	1.38	-	-	-	-	-	-	-	1.38	-	1.38	-	-	-
PH-391	2.53	1.69	-	-	-	-	-	-	-	1.69	-	S	-	-	-
CS-401	2.3	2.3	1.53	1.15	-	-	-	-	-	1.66	-	1.53	2.3	2.3	1.53
CS-402	1.54	1.50	1.50	-	-	-	-	1.03	0.51	-	-	0.51	1.33	1.24	1.24
CS-403	2.30	2.30	-	2.30	-	-	-	-	1.53	1.53	-	-	1.53	2.30	1.53
CS-491	2.10	1.40	1.40	1.40	1.40	2.10	-	-	1.40	-	1.40	1.40	2.10	1.40	0.70
CS-492	1.98	1.64	2.47	-	-	-	-	0.87	-	-	0.87	1.73	1.70	2.60	2.35
CS-493	2.07	-	2.00	-	2.30	-	-	0.00	1.87	1.87	-	-	1.87	1.87	1.87
HU-481	-	-	-	-	-	-	-	-	3	3	-	3	-	-	-
M(CS)-491	1.93	1.93	1.93	1.93	2.9	-	-	-	-	1.93	-	1.93	1.93	0.97	0.97
M-401	1.07	1.6	1.6	0.53	1.07	1.07	-	-	-	1.07	0.53	1.07	1.07	1.6	1.07
MCS-401	3	3	3	1	1	-	-	-	1	1	-	2	2	1	1
CS-501	2.60	2.50	3.00	-	-	-	-	2.00	1.00	-	-	1.00	2.40	2.60	2.60
CS-502	1.45	1.32	1.21	0.68	1.10	0.86	0.59	0.75	0.90	1.10	0.62	0.75	1.31	0.97	0.73

CS-503	2.30	2.30	2.30	1.23	0.77	-	-	-	0.77	0.77	-	1.53	1.53	0.77	0.77
CS-504D	2.30	1.53	1.53	-	-	-	-	-	0.77	0.77	-	0.77	0.77	1.41	1.38
CS-591	1.23	1.20	1.20	-	-	-	-	1.07	0.53	-	0.53	0.53	1.27	1.23	1.23
CS-592	2.10	1.41	1.41	1.41	2.10	-	-	-	1.40	0.70	0.70	1.40	1.33	0.67	0.70
CS-593	2.73	2.73	1.82	1.82	2.73	-	-	-	-	1.82	-	1.82	2.42	1.82	1.82
CS-594D	1.47	2.20	1.47	-	0.73	-	-	-	0.73	0.73	0.73	1.47	1.47	2.20	1.47
HU-501	-	-	1.53	2.3	-	2.3	-	-	1.53	-	-	2.3	-	-	-
CS-601	3.00	3.00	-	-	1.00	-	-	-	1.33	1.00	-	-	1.00	3.00	2.00
CS-602	1.53	2.11	1.92	-	0.77	1.53	-	0.77	-	-	-	1.53	2.30	1.53	1.38
CS-603	2.30	1.70	-	-	-	-	-	-	1.67	0.75	-	0.75	1.95	1.34	1.24
CS-604C	2.00	2.00	-	2.00	-	-	-	-	-	-	-	1.40	1.00	1.50	1.40
CS-605A	2.3	2.3	2.3	1.23	0.77	-	-	-	0.77	0.77	-	1.53	1.53	0.77	0.77
CS-681	-	-	-	-	-	-	-	3.00	1.00	2.00	0.67	-	-	-	1.17
CS-691	2.00	3.00	-	-	-	-	-	-	2.00	2.00	-	1.50	2.00	3.00	2.00
CS-692	2.40	3.00	3.00	-	-	-	-	-	2.45	1.80	-	1.80	2.70	1.48	2.20
CS-693	2.47	-	-	2.00	1.30	-	-	-	2.60	1.73	-	0.87	1.64	2.10	0.87
HU-601	0.8	1.0	1.5	0.8	1.4	1.5	1.5	1.5	2.0	2.3	2.3	2.3	1.5	1.5	2.3
CS-701	2.20	2.50	3.00	-	-	-	-	2.00	1.00	-	2.00	-	2.00	3.00	3.00
CS-702	3	-	3	-	-	-	-	-	-	-	-	-	3	3	3
CS-703C	1.8	1.7	2.2	2.0	2.5	1.5	2.0	-	1.0	-	1.3	1.6	2.0	1.0	1.0
CS-704A	2.17	-	-	-	-	1.53	-	-	1.53	1.53	-	-	-	2.30	1.53
CS-705A	2.11	2.30	2.30	-	1.53	-	-	-	-	0.77	-	0.77	0.77	1.41	1.38
CS-791	1.20	1.24	1.60	-	-	-	-	0.53	1.07	-	1.07	1.07	1.07	1.60	1.60
CS-792	2.00	2.00	3.00	-	2.00	2.00	2.00	3.00	3.00	3.00	3.00	3.00	1.87	2.40	2.60
CS-793C	2.05	2.00	3.00	-	-	-	-	0.93	1.87	-	-	1.87	1.87	1.87	2.80
CS-794	2.00	3.00	3.00	3.00	3.00	3.00	3.00	2.00	3.00	1.00	3.00	3.00	3.00	3.00	2.00
CS-795A	1.67	-	-	-	0.60	1.90	-	-	1.60	0.87	-	0.60	1.20	1.30	1.45
HU-781	-	-	-	-	-	-	-	-	3	3	-	3	-	-	-
CS-801A	3.00	3.00	3.00	-	-	-	-	-	1.00	1.00	-	1.00	1.00	1.60	1.00
CS-802E	2.75	2.00	-	-	2.00	-	-	-	1.00	1.00	-	-	1.00	1.80	1.75
CS-891	1.73	1.73	2.60	-	0.87	-	-	-	-	-	-	0.87	2.60	1.73	2.60
CS-892	2.00	3.00	3.00	3.00	3.00	3.00	3.00	2.00	3.00	1.00	3.00	3.00	3.00	3.00	2.00
CS-893	1.33	1.17	2.00	-	-	-	-	-	-	1.00	-	3.00	1.11	1.11	1.80
HU-801A	-	-	-	-	-	-	-	-	3	3	-	3	-	-	-
2016-2020 (Batch) Direct Attainment	1.97	1.84	2.06	1.50	1.49	1.93	2.01	1.60	1.56	1.39	1.45	1.57	1.67	1.71	1.48

Direct Attainment of POs & PSOs has been obtained for the Batch (s) 2014-2018, 2015-2019 and 2016-2020 is shown in Table 3.3.2.2

		Ta	ble 3.3.	2.2 Ave	rage P(D/PSO A	Assessm	ent by l	Direct A	ttainme	nt of all t	he cour	ses		
Detal						F	POs							PSOS	
Batch	PO1	PO2	PO3	PO 12	PSO 1	PSO2	PSO3								
2016- 2020	1.97	1.84	2.06	1.50	1.49	1.93	2.01	1.60	1.56	1.39	1.45	1.57	1.67	1.71	1.48
2015- 2019	1.96	1.84	1.94	1.48	1.62	2.03	1.85	1.59	1.63	1.42	1.37	1.58	1.66	1.60	1.42
2014- 2018	1.90	1.80	1.89	1.42	1.53	1.79	1.68	1.50	1.61	1.35	1.35	1.54	1.66	1.64	1.39

Indirect Attainment of POs & PSOs has been obtained for the Batch (s) 2014-2018, 2015-2019 and 2016-2020 is shown in Table 3.3.2.2

		Tal	ble 3.3.2	2.3 Aver	rage PO	P/PSO A	ssessm	ent by I	ndirect	Attainme	ent of all	the cou	ırses		
Dotoh						F	POs							PSOS	
Batch	PO1	PO2	PO3	PO 12	PSO1	PSO2	PSO3								
2016- 2020	2.90	2.90	2.60	2.80	2.90	2.70	2.80	2.60	2.70	2.90	2.70	2.70	2.70	2.80	2.70
2015- 2019	2.60	2.70	2.60	2.70	2.30	2.60	2.60	2.70	2.60	2.60	2.70	2.70	2.60	2.70	2.70
2014- 2018	2.50	2.50	2.60	2.70	2.50	2.60	2.60	2.50	2.60	2.70	2.70	2.70	2.40	2.50	2.70

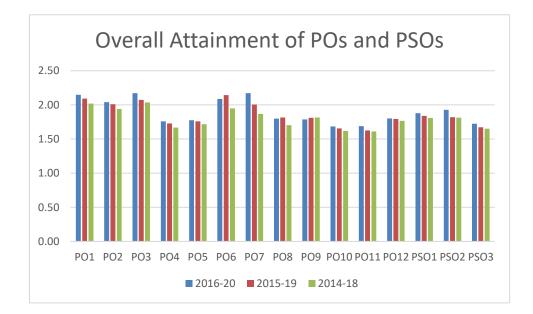
Overall attainment of POs and PSOs

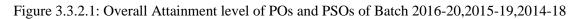
With a weightage of 80% and 20% overall attainment for PO and PSO through direct and indirect method of assessments are presented below.

Overall Attainment of POs & PSOs has been obtained for the academic year (s) 2014-2018, 2015-2019 and 2016-2020.

	Table 3.3.2.4: PO/PSO Overall Assessment for Batch 2016-20, 2015-19,2014-18															
А	ttainment						J	POs							PSOs	
	through	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
0	Direct Assessment	1.97	1.84	2.06	1.50	1.49	1.93	2.01	1.60	1.56	1.39	1.45	1.57	1.67	1.71	1.48
2016-20	Indirect Assessment	2.9	2.9	2.6	2.8	2.9	2.7	2.8	2.6	2.7	2.9	2.7	2.7	2.7	2.8	2.7
7	Weighted Average	2.15	2.04	2.17	1.76	1.77	2.09	2.17	1.80	1.79	1.68	1.69	1.80	1.88	1.93	1.72
6	Direct Assessment	1.96	1.84	1.94	1.48	1.62	2.03	1.85	1.59	1.63	1.42	1.37	1.58	1.66	1.60	1.42
2015-19	Indirect Assessment	2.6	2.7	2.6	2.7	2.3	2.6	2.6	2.7	2.6	2.6	2.7	2.7	2.6	2.7	2.7
7	Weighted Average	2.09	2.01	2.07	1.73	1.76	2.14	2.01	1.82	1.81	1.65	1.62	1.79	1.84	1.82	1.67
~	Direct Assessment	1.90	1.80	1.89	1.42	1.53	1.79	1.68	1.50	1.61	1.35	1.35	1.54	1.66	1.64	1.39
2014-18	Indirect Assessment	2.5	2.5	2.6	2.7	2.5	2.6	2.6	2.5	2.6	2.7	2.7	2.7	2.4	2.5	2.7
2	Weighted Average	2.02	1.94	2.03	1.67	1.72	1.95	1.87	1.70	1.81	1.62	1.61	1.77	1.81	1.81	1.65

Overall Attainment level of POs & PSOs is shown in Figure 3.3.2.1





CRITERION 4

STUDENTS' PERFORMANCE

4. STUDENTS' PERFORMANCE (150)

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2021- 2022(CAY)	2020-2021(CAYm1)	2019-2020(CAYm2)
Sanctioned intake of the program(N)	180	180	120
Totalnumberofstudentsadmittedinfirstyearminusnumberofstudentsmigr atedtoother programs/ institutions plus No. of students migrated to this program (N1)	189	183	127
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	NA	15	12
Separate division students, If applicable (N3)	0	0	0
Total number of students admitted in the program (N1+N2+N3)	189	198	139

Table B.4a

Year of entry	Total No of students admitted in the program (N1 + N2 + N3)	Number of students who have successfully graduated without backlogs in any semester/ year of study (Without Backlog means no compartment or failures in any semester/ year of study)				
		I year	II year	III year	IV year	
2021-2022(CAY)	189+NA+0					
2020-2021(CAYm1)	183+15+0	183				
2019-2020(CAYm2)	127+12+0	111	126			
2018-2019 (CAYm3)	127+12+0	107	110	110		
2017-2018(CAYm4, LYG)	126+11+0	115	118	112	112	
2016-2015(CAYm5, LYGm1)	125+11+0	112	111	111	111	
2015-2016(CAYm6, LYGm2)	127+09+0	104	110	109	109	

Table B.4b

Year of entry	Total No of students admitted in the	Number of students who have successfully graduated in stipulated period of study) [Total of with Backlog + without Backlog]				
	program(N1+N2+N3)	I year	II year	III year	IV year	
2021-2022(CAY)	189+NA+0					
2020-2021(CAYm1)	183+15+0	183				
2019-2020(CAYm2)	127+12+0	124	139			
2018-2019 (CAYm3)	127+12+0	120	133	133		
2017-2018(CAYm4, LYG)	126+11+0	125	135	134	132	
2016-2015(CAYm5, LYGm1)	125+11+0	123	131	131	131	
2015-2016(CAYm6, LYGm2)	127+09+0	125	135	134	134	

Table B.4c

CAY – Current Academic Year CAYm1- Current Academic Year minus1= Current Assessment Year CAYm2 - Current Academic Year minus2=Current Assessment Year minus 1 LYG – Last Year Graduate minus 1 LYGm1 – Last Year Graduate minus 1 LYGm2 – Last Year Graduate minus 2

4.1 Enrolment Ratio(20)

	N(FromTable4.1)	N1(FromTable4.1)	Enrollment Ratio [(N1/N)*100]
2021-2022(CAY)	180	189	105
2020-2021(CAYm1)	180	183	102
2019-2020(CAYm2)	120	127	106
		Table B.4.1	

Average[(ER1 + ER2+ ER3) / 3]:104.33

Assessment:20.00

4.2 Success Rate in the stipulated period of the program(40)

4.2.1 Success rate without backlogs in any semester / year of study(25)

SI= (Number of students who have graduated from the program without backlog)/ (Number of students admitted in the first year of that batch and actually admitted in 2nd year via lateral entry and separate division, if applicable)

Average SI = Mean of Success Index (SI) for past three batches

Success rate without backlogs in any year of study = $25 \times \text{Average SI}$

Item	Last Year of Graduate, LYG (CAYm4) (2017- 18)	Last Year of Graduate minus 1, LYGm1 (CAYm5) (2016-17)	Last Year of Graduate minus 2, LYGm2 (CAYm6) (2015-16)
X Number of students admitted in the corresponding First year + admitted in 2ndyear via lateral entry and separated division, if applicable	137	136	136
Y Number of students who have graduated without backlogs in the stipulated period	112	111	109
Success Index [$SI = Y / X$]	0.82	0.81	0.80

Table B.4.2.1

Average SI [(SI1 +SI2 + SI3) / 3]:0.81

Assessment[25 *Average SI]:20.25

4.2.2 Success rate in stipulated period(15)

SI= (Number of students who graduated from the program in the stipulated period of course duration)/ (Number of students admitted in the first year of that batch and actual admitted in 2nd year via lateral entry and separate division, if applicable)

Average SI = mean of Success Index (SI) for past three batches

Success rate = $15 \times \text{Average SI}$

Item	Last Year of Graduate, LYG (CAYm4) (2017- 18)	Last Year of Graduate minus 1, LYGm1 (CAYm5) (2016-17)	Last Year of Graduate minus 2, LYGm2 (CAYm6) (2015-16)
X Number of students admitted in the corresponding First year + admitted in 2ndyear via lateral entry and separated division, if applicable	137	136	136
Y Number of students who have graduated in the stipulated period	132	131	134
Success Index [$SI = Y / X$]	0.96	0.96	0.98

Table B.4.2.2

Average SI [(SI1 +SI2 + SI3) /3]: 0.97

Assessment[15 *Average SI]:14.55

Note:If100% students clear without anyback log then also total marks scored will be 40 as both 4.2.1&

4.2.2 will be applicable simultaneously.

4.3 Academic Performance in Third Year(15)

Academic Performance = 1.5 * Average API (Academic Performance Index)

API = ((Mean of 3rd Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks of all successful students in Third Year/10)) x (number of successful students/number of students appeared in the examination)

Successful students are those who are permitted to proceed to the final year

Academic Performance	CAYm1(CAYm2 (CAYm3
	Admission	Admission	(Admission
	Yr=2018)	Yr=2017)	Yr=2016)
Mean of CGPA or mean percentage of all successful students(X)	9.55	8.66	7.68
Total number of successful students(Y)	133	134	131
Total number of students appeared in the examination(Z)	133	134	131
API [X*(Y/Z)]:	9.55	8.66	7.68

Table B.4.3

Average API [(AP1 +AP2 + AP3)/3]:8.63 Assessment[1.5*Average API]: 12.94

4.4 Academic Performance in Second Year(15)

Academic Performance Level = 1.5 * Average API (Academic Performance Index)

API = ((Mean of 2nd Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks of all successful students in Second Year/10)) x (number of successful students/number of students appeared in the examination)

Successful students are those who are permitted to proceed to the Third year.

Academic Performance	CAYm1 (Admission Yr=2019)	CAYm2(Admissi on Yr=2018)	CAYm3 (Admission Yr=2017)
Mean of CGPA or mean percentage of all successful students(X)	9.51	8.77	7.56
Total number of successful students(Y)	139	133	135
Total number of students appeared in the examination(Z)	139	133	135
API [X * (Y/Z)]	9.51	8.77	7.56

Table B.4.4

Average API [(AP1 +AP2 + AP3)/3]: 8.61

Assessment[1.5*Average API]:12.92

4.5 Placement, Higher Studies and Entrepreneurship(40)

Item	LYG(202 1)	LYGm1(2020)	LYGm2(2019)
Total No of Final Year Students(N)	134	131	134
No of students placed in the companies or government sector(X)	112	111	110
No of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level tests, GRE, GMAT etc.) (Y)	6	6	7
No of students turned entrepreneur in engineering/technology (Z)	2	0	0
x + y + z =	120	117	117
Placement Index [$(X+Y+Z)/N$] :	0.89	0.89	0.87

Table B.4.5

Average Placement [(P1 + P2 + P3)/3]: 0.88

Assessment [40 * Average Placement]: 35.2

4.5a. Provide the placement data in the below mentioned format with the name of the program and the assessment year:

Computer Science and Engineering: Assessment Year 2021								
S No	Name of the student placed	Enrollment no.	Name of the Employer	Appointment letter reference no. with date				
1	UTKARSH KUMAR	10800117013	Cognizant	Id-15003278,27/08/2021				
2	USNISHCHATTORAJ	10800117014	Atos	Reference no not available in offer letter,30/08/2021				
3	TANU SINHA	10800117015	TCS Ninja Through Digital	TCSL/CT20192684913/KOL,29/10/2020				
4	TAMAL MAJUMDAR	10800117016	Cognizant	Id-14797754,27/04/2021				
5	SUYASHBURNWAL	10800117017	Cognizant	Id-15003566,28/04/2021				
6	SURAJ SHARMA	10800117018	TCS Digital	TCSL/CT20192961367/KOL,17/12/2020				
7	SUDIPTA MAJI	10800117019	ITC Infotech	Reference no not available in offer letter,01/092021				
8	SUDIP NAG	10800117020	Cognizant	Id-15003292,17/08/2021				
9	SUDEEP KUMAR	10800117021	TCS Digital	TCSL/CT20203303305/KOL,17/04/2021				
10	SUBHAM RAJ SHARMA	10800117022	Cognizant	Id-15003233,19/08/2021				
11	SUBHADEEPCHAKRABORTY	10800117023	TCS Digital	TCSL/DT20184511843/KOL,29/10/2020				
12	SRISHTI KUMARI	10800117024	cloudKaptan	Reference no not available in offer letter,24/01/2021				
13	SOUVIK LAHIRI	10800117025	Cognizant	Id-15003358,23/03/2021				
14	SOURAV SAGAR	10800117026	cloudKaptan	CKE0000102,08/09/2021				
15	SOURAV PAL	10800117027	Cognizant	Id-15003218,23/08/2021				
16	SONAM BHARDWAJ	10800117030	IBM	Reference no not available in offer letter,04/11/2021				
17	SONALIKA CHATTOPADHYAY	10800117031	Cognizant	Id-15003252,28/04/2021				
18	SOHINI BANERJEE	10800117032	Cognizant	Id-15003482,22/03/2021				
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19	SNEHA CHAKRABORTY	10800117033	accenture	C9762985,15/07/2021
20	SIMRAN KUMARI	10800117034	SopraSteria	Id-702109,24/08/2021
21	SHUBHAM KUMAR	10800117035	Cognizant	Id-15003295,23/03/2021
22	SHIVAMKUMARJHA	10800117036	LTI-ICC	LTI/HR/CAPUS/EN6/2021,31/05/2021
23	SHARON DEEP BARA	10800117037	TCS DIGITAL	TCSL/CT20192682681/KOL,29/10/2020
24	SAYAN ROY CHOUDHURY	10800117038	Cognizant	Id-15003254,28/08/2021
25	SAURAV RANJAN	10800117039	TCS Digital	TCSL/DT20207206988/KOL,17/04/2021
25		10800117035		Reference no not available in offer
26	SAURABH KUMAR	10800117040	PWC	letter,11/08/2021
				Reference no not available in offer
27	SANSKRITI	10800117041	DXC Tech	
20	SANJUKTABOSE	10800117042	accenture	letter,27/06/2021
28				C9861797,06/08/2021
29	SANDEEP CHAKRABORTY	10800117044	Cognizant	Id-15003378,25/08/2021
30	SAMAR YADAV	10800117045	Capgemini	4898958/926897,09/08/2021
31	SAKET SINGH	10800117046	Microland	Reference no not available in offer
				letter,08/09/2021
32	ROHIT SRIVASTAVA	10800117047	TCS Ninja	TCSL/CT20203456172/AHMEDABAD,25/01/2021
33	ROHIT RAJ	10800117048	Knoldus	Reference no not available in offer
		1000011/010	Software	letter,18/07/2021
34	ROHIT KUMAR SHARMA	10800117049	CBNITS	Reference no not available in offer
54		10000117049	CDINITS	letter,01/07/2021
35	RITIKA MANDHYAN	10800117050	accenture	C9646016,17/06/2021
36	RISHAV KHEMKA	10800117051	TCS DIGITAL	TCSL/CT20192688232/KOL,17/12/2020
37	RICHIK MAJUMDER	10800117052	Persistant	Persistant/campus/972679/3.0,03/05/2021
38	RESHAB DUTTA	10800117053	Cognizant	Id-14753133,23/03/2021
39	RAJAT KUMAR PATEL	10800117054	Infosys	HRD/3T/1002393255/21-22,08/09/2021
40	RAJARSHI DEY	10000117055		Reference no not available in offer
40		10800117055	upgrad	letter,05/08/2021
41	RAHUL YADAV	10800117056	SopraSteria	Id-701453,15/07/2021
42		10000117057	Nessau	Reference no not available in offer
42	RAFAT PARVEEN	10800117057	Nagaroo	letter,01/02/2021
40	RABI SHANKAR	10000117050	000.070	Reference no not available in offer
43	CHAKRABORTY	10800117058	CBNITS	letter,12/12/2020
44	PRIYA SINGH	10800117059	accenture	C9923463,25/08/2021
	PREM KUMAR			
45	CHOUDHARY	10800117060	Cognizant	Id-15003266,23/03/2021
46	PRANAV PRIYADARSHI	10800117061	TCS Ninja	TCSL/CT20203302469/KOL,17/12/2020
47	PRAGYA RATHORE	10800117062	Cognizant	Id-15003451,22/03/2021
48	PALLAVI	10800117064	TCS Ninja	TCSL/DT20206647159, 17/12/2020
			-	Reference no not available in offer
49	NITESH KUMAR SARATHI	10800117065	ZS Associates	letter,28/06/2021
	NISHANT KUMAR	<u> </u>		Reference no not available in offer
50	SRIVASTAVA	10800117066	Amdocs	letter,25/01/2021
51	NISHAN AGARWAL	10800117067	TCS Ninja	TCSL/DT20195233244/KOL,17/12/2020
51		1000011/00/		Reference no not available in offer
52	NILANJAN GUHA	10800117069	Nagarro	letter,10/03/2021
				Reference no not available in offer
53	MUSKAN	10800117070	Amdocs	
				letter,25/01/2021
54	MUSHKAN RAO	10800117071	DXC Tech	Reference no not available in offer
				letter,25/11/2020

55	MRINAL MISHRA	10800117072	Sagarsoft (India)	Reference no not available in offer		
55		1000011/0/2	Limited	letter,28/08/2021		
56	MOUMITA DEY	10800117073	TCS Ninja	TCSL/CT20192681261/KOL,17/12/2020		
			WIPRO Elite	Reference no not available in offer		
57	MILAN MONDAL	10800117074	National	letter,04/06/2021		
			Talent Hunt			
58	MD SHADMAN	10800117076	TCS DIGITAL	TCSL/DT20184511616/KOL,29/10/2020		
59	MAYUK BAIRAGYA	10800117078	Instabase	Reference no not available in offer letter,03/05/2021		
60	MANSI KUMARI	10800117079	TCS	TCSL/CT20182580551/CHENNAI,07/12/2021		
61	MANISH KUMAR	10800117080	TCS DIGITAL	TCSL/CT20192683653/KOL,29/10/2020		
62	MALINI MALLICK	10800117081	TCS Ninja	TCSL/CT20192622749/KOL,17/12/2020		
63	MAHPARA	10800117082	SopraSteria	Id-701566,15/07/2021		
64	KUSHAL KAR	10800117083	TCS Ninja	TCSL/DT20195232838/KOL,17/12/2020		
65	KIRTI	10800117084	TCS Ninja	TCSL/DT20195233794/KOL,17/12/2020		
66	KEDAR NATH CHOUDHARY	10800117085	upgrad	Reference no not available in offer letter,27/07/2021		
67	JAYESH ARYAN	10800117086	Hanu	Reference no not available in offer		
07		10800117080	software	letter,23/12/2020		
68	HIMANSHU TIWARY	10800117087	Cognizant	Id-15003434,22/03/2021		
69	DHEEMAN DAS	10800117091	Accenture	C7484616,28/06/2021		
70	CHANDAN KUMAR	10800117093	TCS	TCSL/CT20192693402/MUMBAI,11/08/2021		
71	BISWAJYOTI BISWAS	10800117094	upgrad	Reference no not available in offer letter,02/09/2021		
72	BISHNU NATH	10800117095	TCS DIGITAL	TCSL/DT20195232836/KOL,29/10/2020		
73	BIPIN KUMAR	10800117096	Nagaroo	Reference no not available in offer letter,01/02/2021		
74	BHARATI GUPTA	10800117098	Accenture	C96665010,21/06/2021		
75	ASHWINI KUMAR	10800117099	TCS Ninja	TCSL/CT20192682831/KOL		
76	ASHRAF ALI ANSARI	10800117101	Cognizant	Id-14803986,27/04/2021		
77	ASHESH KUMAR	10800117103	TCS Ninja	TCSL/CT20192683977/KOL		
78	ARIJIT BABU	10800117104	TCS	TCSL/DT20195251178/Delhi, 3/11/2021		
79	ARIJEETPARAMANIK	10800117105	MindTree	Reference no not available in offer		
		40000447400	TOCALL	letter,14/12/2021		
80	ANURADHA BANERJEE	10800117106	TCS Ninja	TCSL/CT20192682577/KOL,17/12/2020		
81	ANUKUL OJHA	10800117107	TCS DIGITAL	TCSL/DT20184511506/KOL,29/10/2020		
82	ANKUSH BURNWAL	10800117108	Subex	Reference no not available in offer letter,23/07/2021		
83	ANKITA GUHA	10800117109	WIPRO Elite National	Reference no not available in offer		
			Talent Hunt	letter,08/06/2021		
84	ANKIT SRIVASTAVA	10800117110	TCS DIGITAL	TCSL/CT20203223927/KOL,17/04/2021		
85	ANKIT SHARMA	10800117111	Accolite	Reference no not available in offer letter,05/07/2021		
86	ANKIT KUMAR PANDEY	10800117112	Nagarro	Reference no not available in offer letter,26/10/2021		
87	ANKIT KUMAR	10800117113	TCS Ninja	TCSL/DT202067720218/KOL,17/12/2020		
			WIPRO Elite			
88	ANAND KUMAR BHARTI	10800117114	National Talent Hunt	Reference no not available in offer letter,08/06/2021		
				<u> </u>		
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89	AMIT KUMAR KESHRI	10800117115	Cognizant	Id-15003300,27/04/2021
90	AMIT DAS	10800117117	WIPRO Elite National Talent Hunt	Reference no not available in offer letter,04/06/2021
91	AMAN SHARMA	10800117118	TCS DIGITAL	TCSL/CT20203313204/KOL,29/10/2020
92	ALOK KUMAR	10800117120	TCS Ninja	TCSL/DT20195275898/KOL,17/12/2020
93	ALAPAN CHATTERJEE	10800117121	Accenture	C9984616,26/06/2021
94	AKASH KUMAR GOND	10800117122	ACCENTURE	C9895990,13/08/2021
95	AISWARYA GHOSH	10800117125	Amdocs	Reference no not available in offer letter,25/01/2021
96	AFSANAAAZMI	10800117126	Amdocs	Reference no not available in offer letter,25/01/2021
97	ADITI ARYA	10800117127	Evosys Global	ESPL/HRD/LOA/0120201001,03/03/2021
98	ADARSH VERMA	10800117128	TCS Ninja	TCSL/CT20192684001/KOL,17/12/2020
99	ABIR BANERJEE	10800117129	CloudKaptan	Reference no not available in offer letter,24/01/2021
100	ABHISHEK KUMAR	10800117130	ITC	APPT/I3L/CAMPUS/095/2021-22,22/08/2021
101	ABHINEET GUPTA	10800117131	Cloudkaptan	Reference no not available in offer letter,03/10/2020
102	AADARSH SHRIVASTAVA	10800117133	TCS Ninja	TCSL/CT20192682893/KOL,17/12/2020
103	VIVEK SHANDILYA	10800117134	Hays	Linkedin
104	VIKASH KUMAR SINGH	10800117135	Kuliza	Reference no not available in offer letter,02/07/2021
105	RAUSHAN KUMAR JHA	10800117136	Wipro	Reference no not available in offer letter,30/09/2021
106	ABHINAV SAURABH	10800117137	ACCENTURE	C6477616,05/08/2021
107	SOURAV CHAKRABORTY	10800118002	ACCENTURE	C9994616,05/08/2021
108	SHALINI KANNAN	10800118004	MAQ SOFTWARE	Reference no not available in offer letter,13/10/2021
109	RAKTIMA BISWAS	10800118005	ACCENTURE	C9674616,24/06/2021
110	MUSKAN KUMARI	10800118006	ACCENTURE	C8984616,22/06/2021
111	DANISH ALAM	10800118007	ACCENTURE	C8754616,14/06/2021
112	ARKO PROVO SINHA	10800118009	Wipro	Reference no not available in offer letter,03/09/2021

	Computer Science and Engineering: Assessment Year 2020					
S No	Name of the student placed	Enrollment no.	Name of the Employer	Appointment letter reference no. with date		
				Reference no not available in offer letter,23		
1	YASH PRAKASH	10800116010	DXC Tech	Dec, 2020		
2	YADIR KALAM	10800116011	Infosys	HRD/3T/1001874733/21-22,09 june 2021		
3	VISHAL KEDIA	10800116012	Amdox	2020-12-DVCI-P-M418818-1,04 dec 2020		
4	VISHAL GUPTA	10800116013	Accolite	Reference no not available in offer letter,31 aug 2020		
5	VIKASH KUMAR	10800116014	TCS Ninja	TCSL/CT20182514707/Kolkata,12/09/2019		
				Reference no not available in offer		
6	VED PRAKASH	10800116016	kerros	letter,March31,2020		
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				Reference no not available in offer letter,15 july		
7	VARTIKAKEDIA	10800116017	Informatica	2019		
			Xenon			
8	UJJAWAL KUMAR	10800116018	stack_SOFT	Reference number is not available,02-06-2021		
9	TRIPTI VERMA	10800116019	Cerner	Reference number is not available,10-06-2021		
	SYED NUR A					
10	FERDOUS	10800116020	TCS Ninja	TCSL/CT20182424032/Kolkata12-09-2019		
			TCS			
11	SWETA KUMARI	10800116021	Ninza(Digital)	TCSL/CT20182519530/Kolkata,12/09/2019		
12	SWETAGUPTA	10800116022	Accenture	C9276750, 11march 2021		
			Xenon			
13	SUNNY KUMAR	10800116023	stack_SOFT	Reference number is not available,02-06-2021		
	SUMIT KUMAR					
14	MAJEE	10800116024	TCS Ninja	TCSL/CT20182360410/Kolkata		
15	SUKHWINDER SINGH	10800116025	ITC	Appt/I3L/Campus/195/2020-21,01 Jan 2021		
			TCS			
16	SUDIP DAS	10800116026	Ninza(Digital)	TCSL/CT20182519185/Kolkata,12/09/2019		
17	SUDHANYA GANDHI	10800116027	LTI	LTI/HR/GET(1)/T0023716,July 30, 2020		
			xenon			
18	SUDHANSHU RANJAN	10800116028	stack_Business	Reference number is not available,02-06-2021		
			TCS			
19	SUBHO CHOWDHURY	10800116029	Ninza(Digital)	TCSL/CT20182424034/Kolkata,18/09/2019		
	SUBHAM KUMAR					
20	MISHRA	10800116030	Accenture	C9276751,11 mar-2021		
21	SUBHADIP BHAKTA	10800116032	Infosys	HRD/3B/20-21/1000516319		
	SOURAV KUMAR		xenon			
22	PASWAN	10800116033	stack_Business	Reference number is not available,2 june,2021		
		40000446004		Reference no not available in offer letter,19aug		
23	SOURAV KESHRI	10800116034	Dxc Tech	2020		
24		10000110005	TCS ninja (code	TCCI /CT20102444020///cllipte_17/00/2010		
24	SOURAV ACHERJEE	10800116035	vita)	TCSL/CT20182441020/Kolkata, 17/09/2019		
25	SOUMENGORAIN	10800116036	TCS Ninja	TCSL/CT20182360332/Kolkata, 12/09/2019		
26	SOMNATH DAWN	10800116037	TCS Ninja	TCSL/CT20182610206/Kolkata,12/09/2019		
27	SNEHA KUMARI	10800116038	TCS Ninza (Digital)	TCSL/CT20192621131/Kolkata,12/09/2019		
27		10000110050	Off campusing	1C3L/C120192021131/K0lkata,12/09/2019		
28	SIMRAN	10800116040	IBM	IN_152_263330BR_4397764,28jan 2021		
20	SHUBHAM KUMAR	10000110040		114_132_2033500N_4337704,20jd112021		
29	GUPTA	10800116041	cognizant	18576429,5-jan-2020		
25	SHUBHAM KUMAR	10000110041				
30	AGARWAL	10800116042	LTI	LTI/HR/GET(I)/T0023724,July 30, 2020		
- 50		10000110042		Reference no not available in offer letter,24		
31	SHUBHAM KUMAR	10800116043	DXC Tech	Dec, 2020		
51		10000110040	HCL	Reference no not available in offer letter,19		
32	SHIVANIKUMARI	10800116046	Technologies	feb,2021		
33	SHIVAM	10800116047	Capgemini	3406390/752951,18-04-2021		
	SAYANTAN					
34	CHATTERJEE	10800116048	Cognizant	144229030,6/29/2020		
	SAYAN					
35	CHAKRABORTY	10800116049	Wipro	9308248,16 Jun, 2020		
36	SAYANBANIK	10800116050	TCS Ninja	TCSL/CT20182519712/Kolkata,12/09/2019		
	4 H		<u> </u>			
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				Reference no not available in offer letter,05-07-		
37	SAYAMSUBHRA DAS	10800116051	Deloitte India	2021		
38	SAURAV KUMAR JHA	10800116052	Tech mahindra	PT/1889476/jun-21		
	SATYA SACHIN					
39	MAHATO	10800116053	cognizant	15426593,29-Dec-2019		
			Xenon			
40	SANU KUMAR	10800116054	stack_SOFT	Reference number is not available,2 june,2021		
			PCS GLOBAL			
41	SANDIP PAUL	10800116055	PVT. LTD.	Confirmed by mail,04-07-20		
42	SAHID RAJA	10800116057	TCS Ninja	TCSL/CT20182610185/Kolkata,17/09/2019		
43	RUPAM KUMARI	10800116058	ITC	Appt/I3L/Campus/60/2020-21,05 Oct 2020		
	ROSHAN KUMAR		Prodapt			
44	GUPTA	10800116060	Solutions	26 feb,2021		
45	ROHIT KUMAR MAJEE	10800116061	Mindtree	TN/80011828/19,29-10-2019		
	ROHAN KUMAR					
46	SINGH	10800116062	keysight	U51505DL2014FTC264929,July 27, 2020		
47	RITESHSINGH	10800116063	Capgemini	3836145 /733014		
48	RITESH PRASAD	10800116064	Wipro	Confirmed by mail,9dec 2019		
				Reference no not available in offer		
49	RASHMI KUMARI	10800116065	ITC	letter,27/07/19		
				Reference no not available in offer letter,23nov		
50	RANDHIR KUMAR	10800116066	CGI	2020		
51	RANDHIRKUMAR	10800116067	Capgemini	4802501/929557,29/092021		
			Xenon			
52	RAMARCH KUMAR	10800116068	stack_SOFT	02,june 2021		
				HRD/10-201920/396,29		
53	RAJAT SINGH	10800116069	nineleaps	th October 2019		
		40000446070	Xenon	22 · 2224		
54	RAJAN KUMAR	10800116070	stack_SOFT	02,june 2021		
		40000446074	A 1	Reference no not available in offer		
55	RAJ KISHAN	10800116071	Amdocs	letter,28/01/20		
56	RAHUL ROY	10800116072	TCS Ninja	TCSL/CT20182519364/Kolkata,12/09/2019		
F7		10000110075	Arredo es	Reference no not available in offer		
57		10800116075	Amdocs	letter,28/01/20		
58		10800116076	nineleaps	HRD/10-201920/379,29th octobor,2019		
59	PRERNA SHARMA	10800116077	TCS Ninja	TCSL/CT20192625934/Kolkata, 12/09/2019		
60	PRABHAT KUMAR	10800116079	TCS Ninja	TCSL/CT20192768684/Kolkata, 12/09/2019		
C1	POULAMI	10000116000	DVC Task	Reference no not available in offer letter,13		
61	BHATTACHARJEE	10800116080	DXC Tech	Aug, 2020		
62		10000116001	Cuanava	Reference no not available in offer		
62	PIYALI BOSE	10800116081	Gyansys	letter,9/26/2019		
63		10800116082	LTI TCS Ninia	LTI/HR/Campus/2020, August 21, 2019 TCSL/CT20182491415/Kolkata,12/09/2019		
64	NIKHIL KUMAR	10800116084	TCS Ninja	Reference no not available in offer letter,13		
65	NEHA SINGH	10800116085	DXC Tech			
65		10000110000		Aug, 2020 Reference no not available in offer letter,26-03-		
66	NAINA KUMARI	10800116086	kerros	2019		
66		10000110000	kerros	HRD/3B/20-21/1000517279 ,September 16,		
67	MONOJIT DEY	10800116087	infosys	2020		
68	MD MINHAJ KHAN	10800116087	CTS	Candidate ID – 13935981,17-Dec-2019		
69	MD FARAZ AHMAD	10800116089	cognizant	14535989,15-Dec-2019		
		10000110090		1+333203,13-DEC-2013		
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	MANISH KUMAR					
70	MEHTA	10800116091	Mphasis	RH6736249/215034/Bangalore,25/01/2021		
71	MANAS KUMAR	10800116092	TCS Ninja	TCSL/CT20192670188/Kolkata,18/09/2019		
				11 January 2021		
72	KUSH KUMAR	10800116093	sopra	HRES_J_02/VK		
73	KUNAL GAURAV	10800116094	TCS Ninja	TCSL/CT20182519721/Kolkata,12 sep 2019		
			TCS Ninja(code	TCSL/CT20182520120/1292269/Kolkata,16 July		
74	KUMARI SANGEETA	10800116095	vita)	2020		
				Reference no not available in offer letter,31		
75	KUMARI MEGHA	10800116096	Gyansys	july,2019		
			TCS Ninja (code			
76	KOMAL KUMARI	10800116097	vita)	TCSLICT20182520125/Kolkata,12/09/2019		
			Persistent			
77	KAUSHAL TIWARI	10800116100	System	Persistent/Campus/DA00109712/3.0		
78	GUDDUKUMAR	10800116101	Wipro	9230272,03 Jun, 2020		
79	FAROOQ ANSARI	10800116102	keysight	CIN-U51505DL2014FTC264929,27 july 2020		
80	DIPESH KUMAR	10800116103	cognizant	31546829,28-jan-2020		
81	DEBDULAL	10800116104	DXC Tech	Confirmed by mail,30-04-2020		
	CHANDAN KUMAR					
82	SINGH	10800116105	TCS Ninja	TCSL/CT20192754387/Kolkata,12/09/2019		
83	ARUN KUMAR PATEL	10800116106	CTS	13935985,17-Dec-2019		
84	ARNAB DAS	10800116107	infosys	HRD/3B/20-21/1001287760		
				LTI/HR/GET(II)-New/T0023730,September 2,		
85	ARKADEEP BAGAL	10800116108	LTI	2020		
				Reference no not available in offer letter,15-06-		
86	ARIJIT NANDI	10800116109	Informatica	2019		
87	ANUPAM GHOSH	10800116111	cognizant	20156478,07-jan-2020		
88	ANUJ KUMARKESHRI	10800116112	cognizant	21456878,25-jan-2020		
89	ANMOL JALAN	10800116113	LTI	LTI/HR/CAMPUS/2020,21/8/19		
				Reference no not available in offer letter,19-01-		
90	ANKIT AGARWAL	10800116115	MAQ	2020		
91	ANKAN SHARMA	10800116116	Infosys	HRD/3B/20-21/1000512053		
92	ANJALI KUMARI	10800116117	TCS Ninja	TCSL/CT20172213159/Kolkata,12/09/2019		
93	ANIRBAN MANDAL	10800116118	TCS Ninja	TCSL/CT20192621304/Kolkata,12/09/2019		
94	ANIRBAN BANERJEE	10800116119	ACCENTURE	C9276749,11-03-2021		
95	AMEETA SOM	10800116122	INFOSYS	HRD/3B/20-21/1000442487		
			TCS ninja(code			
96	AKASH SHAW	10800116124	vita)	TCSL/CT20192686357/Kolkata,12/09/2019		
97	AKASH CHOUDHARY	10800116125	ITC	Appt/I3L/Campus/70/2020-21,05 Oct 2020		
				HRD/10-201920/385,29		
98	AKASH BHADANI	10800116126	nineleaps	th October 2019		
99	AKASH	10800116127	TCS Ninja	TCSL/CT20192665097/Kolkata,12/09/2019		
400		10000110100	America	Reference no not available in offer letter.28-		
100	ABHISHEK KUMAR	10800116129	Amdocs	Jan-2020		
101		10000116120	DVCT	Reference no not available in offer letter,30-04-		
101	ABHISHEK DAS	10800116130	DXC Tech	2020		
100		10000110124	Doloitto	Reference no not available in offer letter,16-03-		
102	ABHISEKSAH	10800116131	Deloitte	2021		
103	ABHIRUP CHATTERJEE	10800116132	TCS Ninja	TCSL/CT20182429713/Kolkata,12/09/2019		
104	ABHINESH SINGH	10800116133	TCS Ninja	TCSL/CT20192683061/Kolkata, 12/09/2019		
105	ABHIJIT KUMAR	10800116134	TCS Ninja	TCSL/CT20182513603/Kolkata,12/09/2019		
AEC/C	AEC/CSE/NBA – 2022 135					

106	SUJIT ROY	10800117001	TCS Ninja	TCSL/CT20182519909/Kolkata,12/09/2019
107	SAMRAT MITRA	10800117003	Cognizant	14229097,19-Feb-2020
108	RAJIV GHANTY	10800117004	ECL	KAJ/PERS/C-6/35/2021/1559
	NITESH KUMAR			Reference no not available in offer letter,23-11-
109	YADAV	10800117006	CGI	2020
				Reference no not available in offer letter,15-07-
110	ANKITA TIWARI	10800117008	eRevMax	2021
111	ANKANA GHOSH	10800117010	cognizant	20562478,15-jan-2020

Table B.4.5a_placement_2020

	Computer Science and Engineering : Assessment Year 2019				
S	Name of the student	Enrollment	Name of the	Appointment letter reference no. with	
No	placed	no.	Employer	date	
1	ABHILASHA SISODIA	10800115002	TCS Ninja	TCSL/CT20162042080/Kolkata,12/9/2018	
2	ABHISHEK KUMAR	10800115004	тсѕ	TCSL/CT20162031272/Kolkata,21/06/2019	
3	ABHISHEK KUMAR	10800115005	wipro	8284190,09/05/2019	
4	ABHISHEK MISHRA	10800115006	Tek system	HYD/C/2019/OFE-032	
5	ABINASH CHOURASIA	10800115007	CTS	12984216,07/08/2019	
6	ADARSHA SHAH	10800115008	persistent	DA00124120/3.0/20-03-2019	
7	ADITI HAZRA	10800115009	Wipro	8288663,9/05/2019	
8	AJIT KUMAR SINGH	10800115010	Tiger Analytics	Ref. Id is not available in offer letter,26/10/2021	
9 10	AKANKSHA GUPTA AKASH AGARWALA	10800115011 10800115012	TCS Ninja TCS	TCSL/CT20162066510/Kolkata TCSL/CT20172157539/Kolkata, 30/08/2018	
11	AKASH GUPTA	10800115013	CGI	CIN: U72200KA1990PTC019256	
12	ALANKAR MUKHERJEE	10800115014	LTI	LTI/HR/Campus/2019,11-03-2019	
13	AMIT KUMAR	10800115015	wipro	8287352,9/05/2019	
14	AMIT KUMAR	10800115016	Infosys	HRD/3B/19-20/100041724	
15	ANANNA MUKHERJEE	10800115017	CTS	13054978,27/04/2019	
16	ANKIT KUMAR	10800115018	Accenture	C9834525	
17	ANKITA PRIYA	10800115019	CTS	12961672,07/08/2019	
18	APARNA SRIVASTAVA	10800115020	TCS Ninja	TCSL/CT20172158069/Kolkata, 12/09/2018	
19	ASHISH RANJAN	10800115021	TCS Ninja	TCSL/CT20172149983/Kolkata, 12/09/2018	
20	ATUL KASHYAP	10800115023	CGI	CIN: U72200KA1990PTC019311	
21	BABLU KUMAR	10800115024	LTI	LTI/HR/Campus/2019,11-03-2019	
22	BARSHA KUSHWAHA	10800115025	Wipro	8281530,9/05/2019	
23	BAYVAO VERMA	10800115026	СТЅ	13055082,27/04/2019	
24	BHANU PRATAP	10800115027	Mindtree	Ref. Id is not available in offer letter,12/12/2019	

			1			
25	BHASKAR BASU ROY	10800115028	LTI	LTI/HR/Campus/2019,11-03-2019		
				Ref. Id is not available in offer		
26	BISWAJIT BANERJEE	10800115029	synopsys	letter,26/06/2020		
27	BISWAJIT SINGH	10800115030	CTS	12055081,27/09/2019		
28	BISWARUP GHOSH	10800115031	Tcscodevita	TCSL/CT20172207398/Chennai		
29	C R ANJALI	10800115032	CGI	CIN:U72200KA1990PTC019138		
30	CHANDNI KUMARI	10800115033	TCS Ninja	TCSL/CT 20182357557/Kolkata, 30/08/2018		
31	CHIRANTAN CHOUDHURI	10800115034	TCS Ninja	TCSL/CT20172166023/Kolkata, 30/08/2018		
32	DEBAJIT SARKAR	10800115035	TCS Ninja	TCSL/CT20182553113/Kolkata, 12/09/2018		
33	DEBASMITA DUTTA	10800115036	Infosys	HRD/3B/19-20/100041368		
34	DEEP SHIKHA	10800115037	TCS Ninja	TCSL/CT20162045496/Kolkata, 09/10/2018		
35	DEVYANI SINGH	10800115038	TCS Ninja	TCSL/CT20162042336/Kolkata, 30/08/2018		
26			,	Ref. Id is not available in offer		
36	DIVYA DUBEY	10800115040	NTTDATA	letter,29/11/2019		
37	GOURAB TEWARY	10800115041	CTS	13055080,27/04/2019		
38	GYANCHAND AGRAWAL	10800115042	Accenture	C8332193,31/10/2019		
39	HARSHIT RAJ	10800115043	TCS Ninja	TCSL/CT20172201667/Kolkata, 12/09/2018		
40	HONEY KUMARI	10800115044	TCS Codevita	TCSL/CT20162031354/Kolkata, 30/08/2018		
41	JAHANVI NAAZ	10800115045	TCS Ninja	TCSL/CT20172153138/Kolkata		
42	KANKANA MUKHERJEE	10800115046	TCS Ninja	TCSL/CT20162046908/Kolkata, 12/09/2018		
43	KAUSHIK KUMAR GUPTA	10800115047	TCS	TCSL/CT20172210449/Kolkata,07/11/2018		
44	KHUSHBOO KUMARI	10800115048	СТЅ	13055090,27/04/2019		
45	KISHLAY KUMAR RANJAN	10800115049	TCS Ninja	TCSL/CT20182372172/Kolkata, 12/09/2018		
46	KOUSIK MISHRA	10800115050	Wipro	8282133		
47	KRISHN PRIYA	10800115051	Infosys	HRD/3B/19-20/100041984		
				Ref. Id is not available in offer		
48	KUNDAN KUMAR RAI	10800115052	Virtusa	letter,05/08/2019		
49	MAITRI MOSHAN	10800115053	LTI	LTI/HR/Campus/2019,11/03/2019		
50	MAMTA KUMARI	10800115054	CTS	12962014,07/08/2019		
51	MANISHA KUMARI	10800115055	CTS	13055101,27/04/2019		
50				Ref. Id is not available in offer		
52	MD YASIR IRFAN	10800115059	Virtusa	letter,28/06/2019		
53	MOHINI CHOWDHARY	10800115061	TCS Ninja	TCSL/CT20161892947/Kolkata, 12/09/2018		
54	MOUMITA BASU	10800115062	TCS Ninja	TCSL/CT20172154601/Kolkata, 12/09/2018		
55	NEHA KUMARI	10800115066	TCS Ninja	TCSL/CT20172202927/Kolkata, 12/09/2018		
56	NIHAL BHARDWAJ	10800115068	Accenture	C9834319		
57	NISHANT KUMAR SINGH	10800115069	Accenture	C8332567,31/10/2019		
58				Ref. Id is not available in offer		
20	NIVEDITA SONAM	10800115070	Areteans	letter,24/05/2019		
59	NOOR AYESHA	10800115071	TCS Ninja	TCSL/CT20172228684/Kolkata, 12/09/2018		
60	PALLAWI KUMARI	10800115073	Wipro	8282102		
61	PANKAJ KUMAR DEY	10800115074	TCS Ninja	TCSL/CT20172157566/Kolkata, 12/09/2018		
62	PINKI MONDAL	10800115075	wipro	8284122,9/05/2019		
63				Ref. Id is not available in offer		
	POULAMI SHYAM	10800115077	Amazon	letter,11/11/2019		
64	PRACHI	10800115078	CTS	12985521,27/04/2019		

	PRASENJIT KUMAR			'		
65	MANDAL	10800115079	Etramarks	E9333,19/08/2019		
66				Ref. Id is not available in offer		
00	PRATIBHA KUMARI	10800115081	Tiger Analytics	letter,26/10/2021		
67	PRIYANKA SUPRIYA	10800115082	СТЅ	12961672,12/08/2019		
68	RANI GUPTA	10800115086	CTS	12985502,27/04/2019		
69	RANJEET KUMAR RANJAN	10800115087	CGI	CIN:U72200KA1990PTC019126		
70				Ref. Id is not available in offer		
70	RAVI BHUSHAN KUMAR	10800115088	AMDOCS	letter,15/05/2019		
71						
71	RISHABH KUMAR	10800115089	СТЅ	13056129,27/04/2019		
72	RISHIKESH KUMAR	10800115090	TCS Ninja	TCSL/CT20172157563/Kolkata, 12/09/2018		
72			-	TOSI /CT20102552100 /Kell/sta 12/00/2019		
73	ROHIT KUMAR MISHRA	10800115091	TCS Ninja	TCSL/CT20182553109/Kolkata, 12/09/2018		
74						
74	ROHIT SINGH	10800115092	Wipro	8281429,9/05/2019		
75	ROMAN RASHID	10800115093	Tech Mahindra	Offer letter not available,03-04-2020		
70						
76	RUCHI KUMARI	10800115095	TCS Codevita	TCSL/CT20162046020/Kolkata,30/08/2018		
77	RUPA MUKHERJEE	10800115097	TCS Ninja	TCSL/CT20182372167/Kolkata,12/09/2018		
78	SAIF SALIM ANSARI	10800115098	TCS (Pega)	TCSL/CT20172210095/Kolkata, 31/08/2018		
70			, <u> </u>	Ref. Id is not available in offer		
79	SANDIP HAZRA	10800115099	NatIt Solve	letter,11/05/2019		
80				Ref. Id is not available in offer		
00	SANDIP SINGH	10800115100	Mphasis	letter,11/10/2020		
81	SANJUKTA CHAKRABORTY	10800115101	CTS(Cognizant)	13217470,17/06/2019		
82				Ref. Id is not available in offer		
02	SANJUKTA SARKAR	10800115102	virtusa	letter,05/08/2019		
83						
00	SATYAM KUMAR	10800115103	Wipro	9124535,12/08/2019		
84	SAUMEN MAZUMDAR	10800115104	CTS	12995582,26/04/2019		
85	SHIVAM	10800115105	CTS	13055075,27/04/2019		
86	SHRIJA SINGH	10800115106	TCS (Pega)	TCSL/CT20172202924/Kolkata, 31/08/2018		
07			· -			
87	SHUBHAM CHOUDHARY	10800115108	Sriram Groups	CAN050097,01/04/2019		
88						
ÕÕ	SHUBHAM KUMAR	10800115109	Accenture	C8333396,31/10/2019		
89	SHUBHAM KUMAR SINGH	10800115110	TCS Ninja	TCSL/CT20172157556/Kolkata, 12/09/2018		
~~~				Ref. Id is not available in offer		
90	SHUBHAM SAURABH ALOK	10800115111	Amazon	letter,05/12/2019		
01				Ref. Id is not available in offer		
91	SHWETA KUMARI	10800115112	wipro/Virtusa	letter,05/08/2019		
~~~						
92	SONAL CHANDRA	10800115113	TCS Ninja	TCSL/CT20162047130/Kolkata, 12/09/2018		
0.2			-	TOSL/CT204/C204/CE01/Volleta 12/00/2019		
93	SOURAV VISHWAKARMA	10800115114	TCS Ninja	TCSL/CT20162046501/Kolkata, 12/09/2018		
				122		
AEC/C	AEC/CSE/NBA – 2022 138					

I	I	I	1	1		
94	SUDHAKAR	10800115115	TCS Ninja	TCSL/CT20172227701/Kolkata, 30/08/2018		
05				Ref. Id is not available in offer		
95	SUPRATICK DEY	10800115116	Natlt Solve	letter,10/06/2019		
00						
96	SUVODEEP GUPTA	10800115117	Shyamsteel	SFLLP/HR-AP/AD?JUNE/11/33,11/06/2019		
97	SWATILEKHA DAS	10800115119	LTI	LTI/HR/Campus/2019,11/03/2019		
00						
98	TAMAL BANERJEE	10800115120	persistent	DA00123888/3.0,20/03/2019		
99	VISHAL NARAYAN SINGH	10800115121	virtusa	Ref. Id is not available in offer letter		
100				Ref. Id is not available in offer		
100	VISHAL RAJ	10800115122	Deccan	letter,01/08/2020		
101				TCCI /CT20172157551/Kelketa 20/08/2018		
101	VISHAL SHARMA	10800115123	TCS Codevita	TCSL/CT20172157551/Kolkata, 30/08/2018		
102				TCSL/CT20182552005/Kolkata, 12/09/2018		
102	VISHWAJEET BHARDWAJ	10800115125	TCS Ninja			
103				TCSL/CT20172157537/Kolkata, 30/08/2018		
105	TUSHAR BANERJEE	10800116001	TCS (Pega)	105L/ 01201/ 213/ 33/ Nonkata, 30/ 00/ 2010		
104						
104	SOUMADIP MAJUMDAR	10800116002	wipro	8516862,13/05/2019		
105	NISHANT KUMAR			TCSL/CT20182372253/Kolkata, 12/09/2018		
105	SANTORIA	10800116004	TCS Ninja	1052, 01201023, 2253, 1018488, 12, 05, 2010		
106	MOUMITA BHAYA	10800116005	Infosys	HRD/3T/1002890347/21-22		
107	DHIMAN KARMAKAR	10800116006	Wipro	9124234,12/08/2019		
108	ANGSHUMAN DEY	10800116009	CTS	12995502,26/04/2019		
			TCS			
109			Codevita/CTS	12995593,26/02/2019		
	SALMAN SABIR	10801615086	Pega			
110				Ref. Id is not available in offer		
	TRISHITA DUTTA	10801615120	Ingram Micro	letter,20/11/2018		
	Table B.4.5a_placement_2019					

Higher Studies

	2019 Passout Higher Study						
1	2015-2019	PALLAV KUMAR	10800115072	M.Tech	ID Card Narula Instite of Technology		
2	2015-2019	NALIN AGGARWAL	10800115065	MBA	LinkedIn		
3	2015-2019	POULAMI BHUNIA	10800115076	MS	LinkedIn		
4	2015-2019	Abhijit singh	10800115001	MBA	ID card of UEM		

5	2015-2019	ASIF PARWEJ	10800115022	M.Tech	ID Card Narula Institute of Technology		
6	2015-2019	Manisha Kumari Yadav	10800115056	M.Tech	ID card of UEM		
7	2015-2019	VISHAL VIKRAM	10800115124	M.Tech	ID CardCollege of Engineering , Pune		
2020 Passout Higher Study							
1	2016-2020	Saif Ali	10800116056	M.Tech	ID Card Narula Institute of Technology		
2	2016-2020	AMAR SINHA	10800117011	M.Tech	Bonafide Certificate of Central University OfRajasthan		
3	2016-2020	MONIDEEPA DEY	10800116088	MBA	NSHM Business School Congratulation Letter		
4	2016-2020	ROUNAK BISWAS	10800116059	Master of Science	Admission Letter of Rochester Institute of Technology		
5	2016-2020	Ritesh Singh	10800116063	M.Tech	ID Card Narula Institute of Technology		
6	2016-2020	Sumana Acharyya	10800118001	PGDM	Admission Letter of New Delhi Institute of Management		
		2021 Pas	ssout Higher Study	1	•		
1	2017-2021	DEBAPRIYA SARKAR	10800117092	M.Tech	Admission Letter of National Institute of Technology Durgapur		
2	2017-2021	SOURAV NANDI	10800117028	M.Tech	1st Year Admission Letter Available		
3	2017-2021	PANKAJ GHATAK	10800117063	M.Tech	ID Card Narula Institute of Technology		
4	2017-2021	Arijit Pramanik	10800117105	M.Tech	ID Card B.C.Roy college		
5	2017-2021	HARSH RAJ	10800117088	MBA	ID Card Netaji Subhas Engineering College		
6	2017-2021	NIRAJ KUMAR	10800117068	M.Tech	ID Card Narula Institute of Technology		
		Table B.4	.5a_Higher Studie	es	<u></u>		

4.6 Professional Activities (20)

4.6.1 Professional societies/ chapters and organizing engineering events (5)

List of Professional Societies/Chapters

The college is an Institutional member of Computer Society of India (CSI) and has the largest student wing of CSI in Eastern India. The CSI Student Wing of Asansol Engineering College, Vivekananda Sarani, Asansol – 713305, West Bengal was inaugurated on 11 November 2019. A large number of students had applied and paid the fees for Student Membership. The student branch of AEC was opened with a total of 676 memberships. The details are as follows.

1. A total of 109 students from 1 year from the Dept. of CSE have taken the membership for a period of 3 (three) years resulting in $109 \ge 327$ memberships.

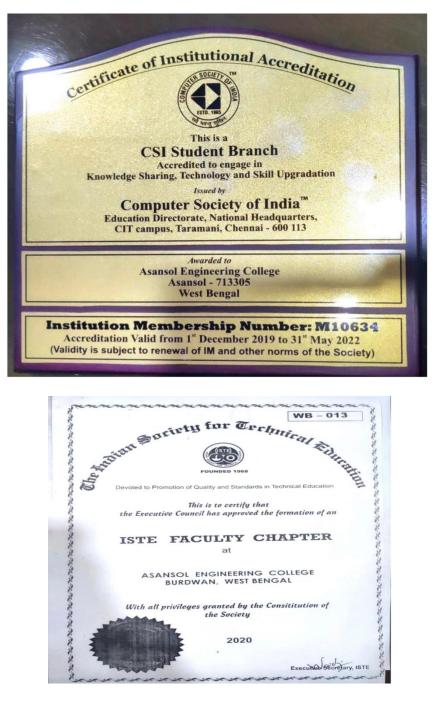
2. A total of 117 students from 2 year from the Dept. of CSE have taken the membership for a period of 2 (two) years resulting in 117 x 2 = 234 memberships.

3. A total of 115 students from 3 year from the Dept. of CSE have taken the membership for a period of 1 (one) year resulting in $115 \ge 115$ memberships. A seminar on "IoT and Machine Learning" was also organized by the Dept of CSE on 11.11.2019.

CSI student branch organizes different kind of activities for CSE students to take care of different aspects of the program outcomes like modern tools uses through webinar and workshops, individual and team work, by conducting project and coding competitions, software project management by developing project for the competition, communication skill development by presenting technical paper presentation and project presentation, professional ethics by participating in different competitions.

List of Professional Societies/ Chapters

SL NO	Professional Societies/Chapters	Outcome
1.	Computer Society of India (CSI)	Running since 2019
2.	The Indian Society for Technical Education (ISTE)	Running since 2020



Organizing Engineering Events in CAY (2021-22)

Sl. No	Organized by	Event Nam	Inter/ Intra College/ National	Date	Picture	
AEC/CS	5E/NBA – 202	2			142	

1	CSE	'C' Quiz	Intra College	13 th August, 2021	Fest Your C language By Qualiyfing this Quiz Image: Comparison of the state of the
2	CSE	TECHNOVA	Vivekananda Hall/ State level Inter College	19 th December 2021	Compared Society of India(CSI): Students branch, Assumed Engineering Callege in acceletion with Campater and Tex-Clab of CSE Dept. AEC
3	CSE	Quiz on AI and Robotics	Intra College	21 st December 2021	Tech Club of CSE Pepartment and CSI Student Chapter of AEC together Organizing CUTTO ON PET & CODECTICS Tests FOLLY Forbunical Kins wheelge IS A BIELD ON IT WHELE BIP FERGER OF OUR REMET NOT B S PEARED TOTAL AND TO THE STREET OF THE CAR OF CODECTION TO THE STREET OF THE CAR STREET OF THE CAR OF THE CAR OF CODECTION TO THE STREET OF THE CAR OF CODECTION TO THE STREET OF THE CAR OF CODECTION TO THE STREET OF THE CAR OF THE
4	CSE	Quiz On Data Structure	Intra College	18 th January, 2022	<image/> <section-header></section-header>

5	CSE	Quiz On Basics Of Computers	Col	ter lege	2 ^r Mar 202	ch, 22	vonte in	Ref CLUB · V Image: Club · V Quiz on BASICS of BASICS of ConnPotter March 2000 March 2000 Uniz Stort from 7PM March 2000 March 2000 March 2000 March 2000
		0	rgam	ing En	gmeer	ing r	Lvents m	CAYm1 (2020-21)
Sl. No	Organized by	Event Nam	1	Inter/ Colle Natio	ege/		Date	Picture
1	CSE	CSI STATE STUE CONVENTION Technical Pap Presentation, 2. P Competition a Exhibition)	N (1. ber Project ind	State I Inte Colle	er	•	ecember, 2020	<image/> <image/>
2	CSE	Top Coder C Language Co		Inte Colle			24 th cember, 2020	<complex-block><section-header></section-header></complex-block>
3	CSE	Quiz on Dat Structure	ta	Inte Colle			19 th bruary, 2021	<image/> <image/> <text><section-header><section-header></section-header></section-header></text>
AEC/	CSE/NBA – 202	22				-		

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4	CSE	DBMS Quiz	Inter College	5 th April, 2021	ON 5TH APRIL, 2021
5	CSE	Poster Making Competition	Intra College	5 th June, 2021	The bulk of CSE dept and bulk of the provide the provi

Organizing Engineering Events in CAYm2 (2019-20)

Sl. No	Organized by	Event Nam	Inter/ Intra College/ National	Date	Picture
1	CSE	Inauguration event of Student's Wing of Computer Society Of India at CSE Dept., Asansol Engineering College.	Intra College	11 NOV,2019	
2	CSE	One Day seminar on of ML and IOT by Dr. Anirban Mukhopadhyay Professor Department of Computer Science and Engineering University of Kalyani. Kalyani, West Bengal. Dr. Somnath Mukhopadhyay Assistant Professor, Department of Computer Science & Engineering Assam University (A Central University), Silchar	Intra College	11 NOV, 2019	STUDENT WING INAUGURATION OF OF COMPUTER SOCIETY OF INDIA OF ASANSOL ENGINEERING COLLEGE & SEMINAR ON IOT & MACHINE LEARNING LIP DOVEMBER, 2019 VIVEKANANDA SEMINAR HALL

		 788011, Assam, India Regional Student Coordinator, Region II, Computer Society of India. Mr. HrishavBakul Barua Embedded Systems and Robotics Research Group Tata Research & Innovation Labs, Kolkata 			
3	CSE	Hands on training on Efficient Project Presentation	Intra College	2 nd March,2020	PREPARING EFFICIENT PROJECT PRESENTATIONS
4	CSE	Awareness Program for 1 st Year CSE	Intra College	8 th March, 2020	
5	CSE	Certificate & Membership Card DistributionofCSIto 1st Year Students, Dept. ofCSE	Intra College	8 th March,2020	
6	CSE	Quiz competition on "C"for1stYearCSE Students	Intra College	15 th April,2020	Image: Construction of the construc
				1	۱ا
AEC/C	SE/NBA – 20	22			146

7	CSE	Poster making competition	Intra College	26 th April, 2020	TECH CLUB OF CSE DEPT & CSI STUDENT CHAPTER OF ACCI PRESENTS POSTER Making Competition Let your creativity fly April 26, 2020 D AM onwords Silveorkshop, accogmail.com
8	CSE	"Quizzards 2020"	Intra College	3 rd May, 2020	
9	CSE	Coders Combat	Intra College	17 th May, 2020	CODERATIVE COMPANY OF CASE CONTRACT COMPANY OF CASE OF CONTRACT COMPANY OF CASE

NPTELREPORT

Academic Year: 2020-21

S.no	Course Id	Course Name	Name	Certificate Type
1	noc21-cs04	Data Base Management System	Anushka Arya	Successfully completed
2	noc21-cs04	Data Base Management System	Shreyasee Ghosh	Successfully completed
3	noc21-cs21	Programming, Data Structures And Algorithms Using Python	Md Adil	Elite
4	noc21-cs21	Programming, Data Structures And Algorithms Using Python	ANJALI KEWAT	Elite
5	noc21-cs21	Programming, Data Structures And Algorithms Using Python	Pritam Chanda	Elite
6	noc21-cs21	Programming, Data Structures And Algorithms Using Python	Sarbananda Maji	Elite
7	noc21-cs21	Programming, Data Structures And Algorithms Using Python	SAYAK PAL	Elite

8	noc21-cs22	Design and analysis of algorithms	APARNA MAHATO	Successfully completed
9	noc21-cs38	An Introduction to Programming through C++	ASHMITA BHATTACHARYYA	Successfully completed
10	noc21-cs38	An Introduction to Programming through C++	Anurag Sharma	Elite+Silver
11	noc21-cs48	Advanced Graph Theory	Somesh Gorai	Elite
12	noc21-cs38	An Introduction to Programming through C++	Alok Kumar	Elite+Silver
13	noc21-cs38	An Introduction to Programming through C++	SAYAK PAL	Elite+Silver
14	noc21-cs38	An Introduction to Programming through C++	Sarbananda Maji	Elite+Silver
15	noc21-cs34	Discrete Mathematics - IIT Ropar	Keshav Kumar Jha	Successfully completed

Academic Year: 2019-20

S.no	Course Id	Course Name	Name	Certificate Type
1	noc19-cs40	Programming, Data Structures And Algorithms Using Python	VIKASH KUMAR SINGH	Elite+Silver
2	noc19-cs40	Programming, Data Structures And Algorithms Using Python	SOURAV SAGAR	Elite
3	noc19-cs40	Programming, Data Structures And Algorithms Using Python	ANKIT SHARMA	Elite+Silver
4	noc19-cs40	Programming, Data Structures And Algorithms Using Python	ASHRAF ALI ANSARI	Elite+Silver
5	noc19-hs33	Soft skills - Online	ANSHU GUPTA	Elite
6	noc19-cs43	Problem Solving through Programming in C - Online	SRISHTI KUMARI	Elite
7	noc19-cs43	Problem Solving through Programming in C - Online	TANU SINHA	Elite+Silver
8	noc19-hs33	Soft skills - Online	ANIKET SINGH	Elite
9	noc19-cs84	Programming In Java - Online	SHIVAM KUMAR CHOURASIA	Elite+Silver
10	noc19-cs59	Python for Data Science - Online	RAHUL SINGH	Successfully completed
11	noc19-hs33	Soft skills - Online	SHUBHAM	Elite
12	noc19-cs64	Cloud Computing - Online	AMIT KUMAR GUPTA	Elite
13	noc19-hs33	Soft skills - Online	KISHAN KUMAR	Elite
14	noc19-hs33	Soft skills - Online	KESHAV KUMAR GUPTA	Elite
15	noc19-hs33	Soft skills - Online	SUMONA MONDAL	Successfully completed
16	noc19-hs33	Soft skills - Online	SUSMIT SHAW	Elite
17	noc19-hs33	Soft skills - Online	SHRISTI SAGAR	Elite
18	noc19-hs33	Soft skills - Online	JANHABI MUKHERJEE	Elite+Silver
19	noc19-hs33	Soft skills - Online	KARANVEER SINGH	Elite+Silver
20	noc19-hs33	Soft skills - Online	DEBJIT MAJI	Elite

[1			1
21	noc19-hs33	Soft skills - Online	AKASH KUMBHAKAR	Elite
22	noc19-hs33	Soft skills - Online	MD SAIF IQBAL	Successfully
				completed
23	noc19-hs33	Soft skills - Online	PRATIK JHUNJHUNWALA	Elite
			SASWATA	
24	noc19-hs33	Soft skills - Online	CHATTERJEE	Elite
25	noc19-hs33	Soft skills - Online	SOUMEN KARMAKAR	Elite
26	noc19-hs33	Soft skills - Online	SAYAK PAL	Successfully completed
27	noc19-hs33	Soft skills - Online	DEBJIT RAY	Elite
28	noc19-hs33	Soft skills - Online	SHUBHAM KUMAR	Elite
29	noc19-hs33	Soft skills - Online	RUPA KUMARI YADAV	Elite
30	noc19-hs33	Soft skills - Online	SUBHADEEP MAJI	Elite
31	no.10 ho22	Soft skills - Online	ANUSHKA	Successfully
51	noc19-hs33	Soft skills - Online	BANDOPADHYAY	completed
32	noc19-hs33	Soft skills - Online	SHIBU SINGH	Elite
33	noc19-hs33	Soft skills - Online	SHRESTHA THAKUR	Successfully completed
34	noc19-hs33	Soft skills - Online	ANSU DALMIA	Elite
35	noc19-hs33	Soft skills - Online	VIVEK VERMA	Elite
36	noc19-hs33	Soft skills - Online	SHREYASI BALL	Elite
37	noc19-hs33	Soft skills - Online	SNEHA MUKHERJEE	Elite
38	noc19-hs33	Soft skills - Online	ABHISHEK RAKSHIT	Successfully completed
39	noc19-hs33	Soft skills - Online	PRITAM CHANDA	Elite
40	noc19-hs33	Soft skills - Online	AYUSH DUTTA	Elite
41	noc19-hs33	Soft skills - Online	ADITI GHOSAL	Successfully completed
42	noc19-hs33	Soft skills - Online	ARITRA BANERJEE	Elite
43	noc19-hs33	Soft skills - Online	HIMANSHU NANDAN	Elite
44	noc19-hs33	Soft skills - Online	KAMRAN HASSAN	Elite
45	noc19-hs33	Soft skills - Online	SOUVIK GHOSAL	Successfully completed
46	noc19-hs33	Soft skills - Online	APURVA SRIVASTAVA	Elite
47	noc19-hs33	Soft skills - Online	RAJAT KUMAR CHANDRA	Elite
48	noc19-hs33	Soft skills - Online	AYUSH KUMAR SHARMA	Elite
49	noc19-hs33	Soft skills - Online	ABHINAV MISHRA	Elite
50	noc19-hs33	Soft skills - Online	ROSHNI BOSE	Successfully completed

Academic Year: 2018-19

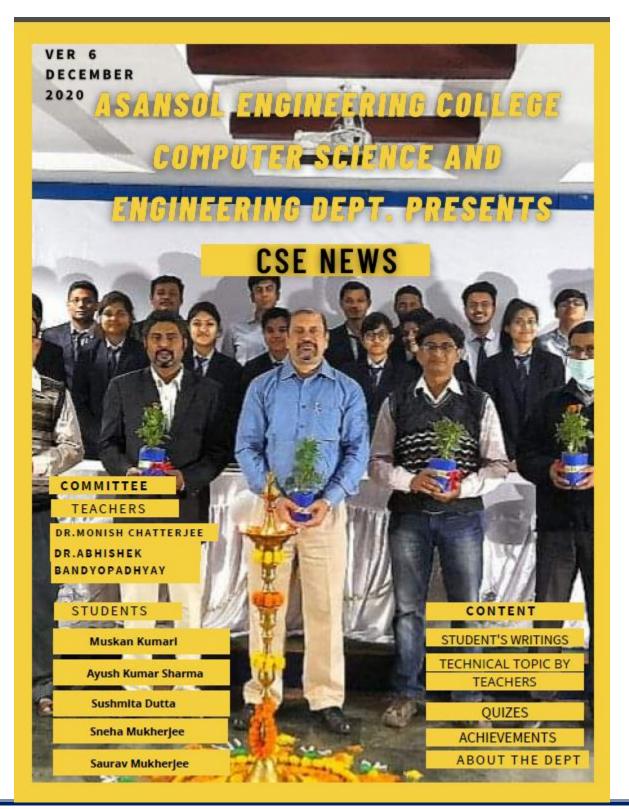
S.no	Course Id	Course Name	Name	Certificate Type
1	noc18-cs31	Problem Solving through	SAMAR YADAV	Successfully completed

		D rogramming in C		
		Programming in C	SAYAM SUBHRA	
2	noc18-cs31	Problem Solving through Programming in C	DAS	Successfully completed
3	noc18-cs31	Problem Solving through Programming in C	SOURAV SAGAR	Elite
4	noc18-cs31	Problem Solving through Programming in C	NIKHIL KUMAR	Elite
5	noc18-cs31	Problem Solving through Programming in C	RAHUL YADAV	Successfully completed
6	noc18-cs31	Problem Solving through Programming in C	SATYA SACHIN MAHATO	Successfully completed
7	noc18-cs31	Problem Solving through Programming in C	SIMRAN	Successfully completed
8	noc18-cs31	Problem Solving through Programming in C	MANISH KUMAR	Elite
9	noc18-cs31	Problem Solving through Programming in C	ANKIT SRIVASTAVA	Successfully completed
10	noc18-cs31	Problem Solving through Programming in C	RAFAT PARVEEN	Elite
11	noc18-cs31	Problem Solving through Programming in C	RICHIK MAJUMDER	Elite+Silver
12	noc18-cs31	Problem Solving through Programming in C	MOUMITA DEY	Successfully completed
13	noc18-cs31	Problem Solving through Programming in C	KUSH KUMAR	Elite
14	noc18-cs31	Problem Solving through Programming in C	NEHA SINGH	Successfully completed
15	noc18-cs31	Problem Solving through Programming in C	KUMARI MEGHA	Elite+Silver
16	noc18-cs31	Problem Solving through Programming in C	DHEEMAN DAS	Successfully completed
17	noc18-cs31	Problem Solving through Programming in C	RABI SHANKAR CHAKRABORTY	Elite
18	noc18-cs31	Problem Solving through Programming in C	ROHIT KUMAR SHARMA	Elite+Silver
19	noc18-cs31	Problem Solving through Programming in C	VIKASH KUMAR	Successfully completed
20	noc18-cs31	Problem Solving through Programming in C	ANJALI KUMARI	Elite
21	noc18-cs31	Problem Solving through Programming in C	AMRITA SHREE	Elite
22	noc18-cs31	Problem Solving through Programming in C	ANKUSH BURNWAL	Elite
23	noc18-cs31	Problem Solving through Programming in C	JAHANVI NAAZ	Elite+Silver
24	noc18-cs31	Problem Solving through Programming in C	ABHINEET GUPTA	Elite
25	noc18-cs31	Problem Solving through Programming in C	DEBDULAL	Elite
26	noc18-cs31	Problem Solving through Programming in C	SHIVAM	Successfully completed
27	noc18-cs31	Problem Solving through Programming in C	MUSHKAN RAO	Elite
28	noc18-cs31	Problem Solving through	DIPESH KUMAR	Successfully completed

			-	
		Programming in C		
20	noc18-cs31	Problem Solving through	AADARSH	Successfully completed
29	10018-0851	Programming in C	SHRIVASTAVA	Successfully completed
20	maa19 aa21	Problem Solving through		Elite Cilmen
30	noc18-cs31	Programming in C	NILESH KUMAR	Elite+Silver
21	10 01	Problem Solving through	SAYAN ROY	
31	noc18-cs31	Programming in C	CHOUDHURY	Successfully completed
		Problem Solving through		
32	noc18-cs31	Programming in C	SHUBHAM KUMAR	Successfully completed
		Problem Solving through		
33	noc18-cs31	Programming in C	SOURAV NANDI	Successfully completed
		Problem Solving through		
34	noc18-cs31	Programming in C	PRAGYA RATHORE	Successfully completed
		Problem Solving through		
35	noc18-cs31	Programming in C	HONEY KUMARI	Elite
		Problem Solving through		
36	noc18-cs31	Programming in C	SURAJ SHARMA	Elite
		Problem Solving through	ANURADHA	
37	noc18-cs31	Programming in C	BANERJEE	Successfully completed
		Problem Solving through	PREM KUMAR	
38	noc18-cs31	Programming in C	CHOUDHARY	Elite
		Problem Solving through	VIKASH KUMAR	
39	noc18-cs31	Programming in C	SINGH	Elite+Silver
		Problem Solving through		
40	noc18-cs31	Programming in C	PRIYA SINGH	Elite
		Problem Solving through		
41	noc18-cs31	Programming in C	MAHPARA	Successfully completed
		Problem Solving through		
42	noc18-cs31	Programming in C	AKASH KUMAR	Successfully completed
		Problem Solving through		
43	noc18-cs31	Programming in C	ARIJIT BABU	Successfully completed
44	noc18-cs31	Problem Solving through Programming in C	RAUSHAN KUMAR JHA	Successfully completed
		Programming in C Problem Solving through	јпа	
45	noc18-cs31		AMAN RAJ	Successfully completed
		Programming in C		
46	noc18-cs31	Problem Solving through	RUPAM KUMARI	Elite
		Programming in C		
47	noc18-cs31	Problem Solving through	SHUBHAM KUMAR	Elite
		Programming in C	AGARWAL	
48	noc18-cs31	Problem Solving through	SAURAV KUMAR	Successfully completed
-		Programming in C	JHA	,
49	noc18-cs31	Problem Solving through	RITESH SINGH	Successfully completed
		Programming in C		
50	noc18-cs31	Problem Solving through	TAMAL MAJUMDAR	Elite
20		Programming in C		

4.6.2 Publication of technical magazines, newsletters, etc. (5)

Name of Periodicals (Newsletter)	1 5		Publisher	
CSE-NEWS	Half Yearly	Dr. Monish Chatterjee	Asansol Engineering College	



Student List for Newsletter Ver 6 October 2020:

Student Editor : Saurav Mukherjee CSE, 1st Year **Graphic Designer** : Upama Mukhopadhyay CSE, 1st Year Technical ContentScrutinizers: : Sourav Kairi, CSE,3rd year Aayush Kumar Sharma, CSE, 2nd year Shruti Chakraborty, CSE,3rd year **Technical Topicsubmitted bystudents:** Sayan Roy Choudhary, CSE, 4th year Aayush kumar Sharma, CSE, 2nd year Anukul Ojha, CSE,4th year Trithankar Roy Choudhary CSE, 4th year SubhamBouri CSE,2nd year Janhabi Mukherjee CSE,2nd year Sushmita Dutta CSE,2nd year Ankit Kumar CSE,3rd year Sarbananda Maji CSE,2nd year Suprio Mondal CSE,2nd year Jyoti Rani CSE,2nd year Aman Kumar CSE,2nd year Muskan Kumari CSE,3rd year Students Involvedin newslettercirculation: Saptaparnikundu, CSE, 2nd year ShreshthaThakur.CSE,2nd Year Mirza KousherBaig, CSE, 1st year Sushmita Dutta, CSE, 3rd year Students working committee:

> Muskan Kumari, CSE, 3rd Year Ayush Kumar Sharma,CSE, 2nd Year Sushmita Dutta,CSE, 2nd Year Sneha Mukherjee,CSE, 2nd Year Sourav Mukherjee,CSE, 1st Year

Name of Periodicals	Frequency of	Name of the	Publisher
(Magazine)	Publications	Editors	
VISION INFINITY	Yearly	Dr. Monish Chatterjee	Asansol Engineering College



Student List for Magazine 2019:

Student Editor	: SaptaparniKundu,CSE,1st Year
Graphic Designer	: Shruti Chakroborty,CSE, 2nd Year
Technical Content Scrutinizers	: Prerna Sharma, CSE,3rd year Alankar Mukherjee, CSE, 4th year Ashish Ranjan, CSE,4th year
Technical Topic submitted by students:	Shrestha Thakur, CSE, 1st year Sneha Mukherjee, CSE, 1st year Ayush Kumar, CSE,1st year Kundan Roy, CSE,1st year Sushmita Dutta,CSE,1st Year Akanksha Gupta,CSE,4th year SudhanyaGandhi,CSE,3rd year Shreyasi Mondal, CSE,3rd year Satya SachinMahato, CSE,3rd year Md Faraz Ahmad, CSE,3rd year Manish Kumar Mehta, CSE,3rd year Komal Kumari, CSE,3rd year
Students Involved in news letter circulat	t ion: Manish Kumar, CSE, 3rd year Sourav Kairi,2nd Year Samrat Lahiri, CSE, 2nd year Niraj Sharma,CSE, 3rd year
Students working committee:	Saptaparni Kundu, CSE, 1st Year Shrestha Thakur, CSE, 1st Year Sourav Kairi, CSE, 2nd Year Souvin Dey, CSE, 1st Year Reshav Khemka, CSE, 3rd Year Ankul Ojha, CSE, 3rd Year Md. Shadman, CSE, 3rd Year Richik Majumdar, CSE, 3rd Year

Students of CSE are actively participate to publish News Letters and Magazines under the guidance of teachers by performing different responsibilities like contributing technical articles, contain writing, editing, graphics designing and circulation process which supports the different aspects of program outcomes like communication skills, modern tools used, individual and team work and professional ethics.

4.6.3 Participation in inter-institute events by students of the program of study (10)

Participation in Inter-Institute events by students in CAYm1 (2020-21)

Participation in Event within State

Seria 1 No.	Student	Roll No.	Date	Event	Venue
1	Name Sreeja Ghosh	10800119040	08.05.2021	Webinar and Virtual Training on Cloud Tech and Big Data Analytics	MSIT, Kolkata
2	Manish Kumar	10800120077	04.06.2021	Workshop on Cyber Forensics,Technolo gy	Ardent Computech Pvt. Ltd., Kolkata
3	Sreeja Ghosh	10800119040	10.10.2020	One Day Workshop on "Technical Writing: Tips, Tricks and Tools"	JIS University, Kolkata
4	Shakil Ahmed	10800120046	30.05.2021	Break the Code	BPPIMT, Kolkata
5	Siddhartha Chakrabort y	10800120047	08.06.2021	Webinar on Inaugaration the Internet TV of MAKAUT	MAKAUT, West Bengal
6	Deepak Kumar Jha	10800120057	05.06.2021	Online Student Research Article Presentations	MAKAUT, West Bengal
7	Sanjana Kumari	10800120061	09.12.2020	Workshop on Entrepreneurship Development Phases in the Next Model	GNIT, Kolkata

 Table 4.6.3.A CAYm1 (2020-21) Event within State

Participation in Event Outside State

Seria 1 No.		Roll No.	Date	Event	Venue	
AEC/CSE/NBA -	- 2022					156

1.	Shivam Roy	10800120041	16.05.2021	NATIONAL LEVEL	SIGMA INSTITUTE
2.				QUIZ ON PYTHON PROGRAMMING	OF ENGINEERING VADODARAGUJRAT
	Abhineet Gupta	10800117131	20.03.2021	D2COnlineHackathonFestivalSeason 2	BITS,Pilani
3.	Pragya Rathore	10800117062	25.07.2020 - 29.07.2020	Artificial Intelligence and Deep Learning	IIT, Roorkee
4.	Swarnendu Zaminder	10800120007	16.05.2021	NATIONAL LEVEL QUIZ ON PYTHON PROGRAMMING	SIGMA INSTITUTE OF ENGINEERING VADODARAGUJRAT
5.	Debankush Sarkar	10800120031	02.10.2020	International Level Webinar on Manage Your Over thinking by Music Therapy	VIDYANKUR EDUCATION
6.	Debankush Sarkar	10800120031	02.06.2021	National Level Online Quiz on Engineering Workshop	Bharat Institute of Engineering and Technology, Hyderabad
7.	Debankush Sarkar	10800120031	16.05.2021	NATIONAL LEVEL QUIZ ON PYTHON PROGRAMMING	SIGMA INSTITUTE OF ENGINEERING VADODARAGUJRAT
8.	Md. Samir	10800120039	02.10.2020	International Level Webinar on Manage Your Over thinking by Music Therapy	VIDYANKUR EDUCATION
9.	Md. Samir	10800120039	02.06.2021	National Level Online Quiz on Engineering Workshop	Bharat Institute of Engineering and Technology, Hyderabad
10	Sapar Kumar	10800120161	12.06.2021	Integrate and Encourage Yoga through Life	Ministry of Ayush
11	Ashish Kumar Rajak	10800120161	16.05.2021	NATIONAL LEVEL QUIZ ON PYTHON PROGRAMMING	SIGMA INSTITUTE OF ENGINEERING VADODARAGUJRAT
12	Arshi Anjum	10800120185	16.05.2021	NATIONAL LEVEL QUIZ ON PYTHON	SIGMA INSTITUTE OF ENGINEERING

				PROGRAMMING	VADODARAGUJRAT
13	Janhabi Mukherjee	10800119059	26.07.2020	QUIZ	PARUL UNIVERSITY,GU ARAT
14	Jyoti Rani	10800119017	26.07.2020	QUIZ	PARUL UNIVERSITY,GU ARAT
15	Jyoti Rani	10800119017	09.11.2020	QUIZ	PARUL UNIVERSITY,GU ARAT
16	Ashutosh Amartya	10800119019	15.12.2020	QUIZ	PARUL UNIVERSITY,GU ARAT
17	Ashutosh Amartya	10800119019	09.11.2020	QUIZ	PARUL UNIVERSITY,GU ARAT
18	Gulshan Kumar	10800119101	12.06.2021	Online Quiz	J.K.K. Nattaraj College o Pharmacy,T.Nadu
19	Gulshan Kumar	10800119101	05.06.2021	Environmental Awareness Quiz	B.M.S. Institute of Technology an Management Bengaluru
20	UshnishCh attoraj	10800117014	10.08.2020	National Level Online Quiz on Angular JS	SRNMN College of Applied Sciences
21	UshnishCh attoraj	10800117014	22.07.2020	International Level Smart-Up Quiz Competition	PARUL UNIVERSITY, GUJARAT
22	UshnishCh attoraj	10800117014	21.07.2020	Power Systems Online Quiz	Aar Mahavee Engineering College, Hyderaba
23	UshnishCh attoraj	10800117014	10.08.2020 - 14.08.2020	Five days Online Workshop on Software Engineering Using Advanced	DYPCoE, Pune

					Technologies	
					reennologies	
	24	UshnishCh attoraj	10800117014	04.07.2020	OneDayInternationalWebinar on RemoteSensing:LatestTrendsandPerspectives	Assam University, Silchar
	25	UshnishCh attoraj	10800117014	July 2020	National level Online quiz	SreeAnanthaPadma nabhaArts,Science and Commerce College, Telangana
	26	attoraj	10800117014	02.12.2020	Online Programming language Competition using HTML and Javascript	PARUL UNIVERSITY, GUJARAT
	27	UshnishCh attoraj	10800117014	04.09.2020	Webinar on Mental Awareness on Gentle Well Being	IEEE WIE Affinity Group College of Engineering, Karunagappally
	28	Deepak Kumar	10800119102	16.05.2021	NATIONAL LEVEL QUIZ ON PYTHON PROGRAMMING	SIGMA INSTITUTE OF ENGINEERING VADODARA, GUJRAT
	29	Tanu Sinha	10800117015	15.12.2020	QUIZ	PARUL UNIVERSITY, GUJARAT
	30	Aditi Singh	10800120015	16.05.2021	NATIONAL LEVEL QUIZ ON PYTHON PROGRAMMING	SIGMA INSTITUTE OF ENGINEERING VADODARA, GUJARAT
	31	Arnab Mukherjee	10800120036	16.05.2021	NATIONAL LEVEL QUIZ ON PYTHON PROGRAMMING	SIGMA INSTITUTE OF ENGINEERING VADODARAGUJRAT
	32	Rishika	10800120040	16.05.2021	NATIONAL LEVEL QUIZ ON PYTHON PROGRAMMING	SIGMA INSTITUTE OF ENGINEERING VADODARAGUJRAT
	33	Shivam Pandey	10800120041	30.05.2021	Python Quiz for Beginners-2	Rajkiya Engineering College,UP
	34	AnkanBan dopadhyay	10800120062	12.06.2021	Python Quiz for Beginners-2	Rajkiya Engineering
AEC/CSE	E/NBA – 2	2022				159

					COLLEGE, UP
35	Snehajeet Das	10800120073	16.05.2021	NATIONAL LEVEL QUIZ ON PYTHON	SIGMA INSTITUTE OF ENGINEERING
				PROGRAMMING	VADODARA, GUJRAT
36	AishaniGh	10800120138	16.05.2021	NATIONAL LEVEL	SIGMA INSTITUTE
	osh			QUIZ ON PYTHON	OF ENGINEERING
				PROGRAMMING	VADODARAGUJRAT
37	Nikita	10800120146	16.05.2021	NATIONAL LEVEL	SIGMA INSTITUTE
	Kumari			QUIZ ON PYTHON	OF ENGINEERING
				PROGRAMMING	VADODARA, GUJRAT
38	Prem	10800118079	14.06.2021	Integrate and	Ministry of Ayush
	Kumar			Encourage Yoga	
	Paul			through Life	
39	Pooja	10800118086	14.06.2021	Integrate and	Ministry of Ayush
	Kumari			Encourage Yoga	
				through Life	
40	Komal	10800118093	14.06.2021	Integrate and	Ministry of Ayush
	Singh			Encourage Yoga	
				through Life	
41	Kirty	10800118094	14.06.2021	Integrate and	Ministry of Ayush
	Kumari			Encourage Yoga	
				through Life	
42	Pranav Kumar	10800118083	02.08.2020	PYTHON (BASIC)	CTO, HackerRank
43	Saswika	10800120010	13.06.2021	Integrate and	Ministry of Ayush
				Encourage Yoga	
				through Life	
44	Danish	10800120012	12.06.2021	Integrate and	Ministry of Ayush
	Haidar			Encourage Yoga	
				through Life	
45	Sreeja	10800119040	25.04.2021	AI for India Event	GUVI
	Ghosh				
46	Sreeja	10800119040	22.12.2020	Live Webinar on	Foursteps Training
	Ghosh			Digital Marketing	Solutions,Chennai
47	Sreeja	10800119040	19.12.2020	Live Webinar on	Foursteps Training
	Ghosh			Artificial	Solutions, Chennai
				Intelligence	
48	Pratik	10800119042	12.06.2021	Integrate and	Ministry of Ayush
	Jhunjhunw			Encourage Yoga	
	ala				

				through Life	
49	Vaishnavi Ranjan	10800119088	09.11.2020	QUIZ	PARUL UNIVERSITY,GUJ ARAT
50	Vaishnavi Ranjan	10800119088	16.05.2021	NATIONAL LEVEL QUIZ ON PYTHON PROGRAMMING	SIGMA INSTITUTE OF ENGINEERING VADODARAGUJRAT
51	Vaishnavi Ranjan	10800119088	28.05.2021	HACKOMANIA	VIT
52	Ryan Ray	10800119036	13.06.2021	NATIONAL LEVEL E- QUIZ	YOGI VEMANA UNIVERSITY ,AP

 Table 4.6.3.B CAYm1 (2020-21) Event outside State

CAYm1 (2020-21) Awards Received

Serial No.	Student Name	Roll No.	Date	Event	Venue	Awards
1.	Varun Sanwaria	10800118014	28.02.2021	Speech Competiti on	Central University of Haryana,Mahendragarh	3 rd
2.	Soutam Maji	10800118030	28.02.2021	Speech Competiti on	Central University of Haryana,Mahendragarh	2 nd

Table 4.6.3.C CAYm1 (2020-21) awards Received

Participation in Inter-Institute events by students in CAYm2 (2019-20)

Participation in Event within State

Serial No.	Student Name	Roll No.	Date	Event	Venue
1	PushprajPriy	10800118076	18.04.2020	NATIONAL LEVEL ONLINE CODING CHALLENGE	JIS College of Engineering,Kalyani West Bengal
2	KritikMohanka	10800118092	18.04.2020	NATIONAL LEVEL ONLINE CODING CHALLENGE	JIS College of Engineering,Kalyani West Bengal
3	Sandip Mondal	10800118058	03.11.2019 - 04.11.2019	WAC 2019	NIT DURGAPUR

	4	Siddhartha Pal	10800119075	18.04.2020	National level Online Coding Challenge.	JIS College of Engineering, Kalyani
	5	Akash Kumbhakar	10800119076	07.02.2020	Aarohan 2020	The Annual Techno Management Fest of NIT Durgapur
	6	Abhinav Misra	10800119116	18.04.2020	National level Coding Challenge	JIS College of Engineering, Kalyani
	7	Abhiraj Verma	10800119113	18.04.2020	National level Coding Challenge	JIS College of Engineering, Kalyani
	8	Aniket Singh	10800119121	07.02.2020	AAROHAN 2020	The Annual Techno Management Fest of NIT Durgapur
	9	Abir Banerjee	10800117129	18.04.2020	National level Coding Challenge	JIS College of Engineering, Kalyani
	10	Karanveer Singh	10800119016	17.01.2020	KSHITIJ 2020	IIT KHARAGPUR
	11	Sreeja Ghosh	10800119040	07.02.2020	AAROHAN 2020	NIT DURGAPUR
	12	Subham Das	10800119013	07.02.2020	AAROHAN 2020	NIT DURGAPUR
	13	Subhamoy Banerjee	10800119044	4 th -5 th January.20 20	SPRING FEST	IIT KHARAGPUR
	14	Suprio Mondal	10800119009	07.02.2020	AAROHAN 2020	NIT DURGAPUR
	15	Sushmita Dutta	10800119050	07.02.2020	AAROHAN 2020	NIT DURGAPUR
	16	Swarup Bit	10800119008	08.02.2020	AAROHAN 2020	NIT DURGAPUR
	17	Vikash Kumar Singh	10800117035	18.04.2020	National level Coding Challenge	JIS College of Engineering, Kalyani
	18	Anurag Sharma	10800119018	01-11- 2019-03- 11-2019	National Student's Space Challenge - Lift Off	IIT Kharagpur
	19	Satprit Singh Makkar	10800118054	29-05-2020	NATIONAL LEVEL QUIZ	JIS UNIVERSITY
	20	Varun Sanwaria	10800118014	25.07.2020	ESCodeR-2020	SNU, Kolkata
	21	Randhir Kumar	10800116066	03.02.2020	Voluntary Blood Donation	State Blood Transfusion Council,West Bengal
	22	Rahul Kumar	10800116075	18.04.2020	National level Coding Challenge	JIS College of Engineering, Kalyani
	23	Pramita Khan	10800119133	27/05/20	QUIZ	BIDHAN CHANDRA KRISHI VIDYALAYA
	24	Pramita Khan	10800119133	08/06/20	QUIZ	PARUL UNIVERSITY
AEC	C/CSE/N	IBA – 2022				162

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	25	Yadir Kalam	10800116011	08.11.2019	Vajra 19	BIT-Mesra
-				10.11.2019		
					Webinar On	
			10000110012		Digital	
	26	Apurva Shrivastava	10800119012	15.06.2020	Communications:	MAKAUT, West Bengal
					Learnings and	
					Applications	
Ī	27	Suraj Sharma	10800117018	10.04.2020	National level	JIS College of Engineering,
	27	~		18.04.2020	Coding Challenge	Kalyani
	28	UshnishChattoraj	10800117014	12.08.2019	KSHITIJ 2019	IIT KHARAGPUR

Table 4.6.3.A CAYm2 (2019-20) Event within State

Participation in Event Outside State

Serial No.	Student Name	Roll No.	Date	Event	Venue
1	PratyushSahu	10800118080	25.08.2019	BLOOD DONATION CAMP 2019	IIT(ISM),Dhanbad
2	Pallavi	10800117064	23.12.2019	Real Time Challenges and their solutions in IT industry and Microsoft Services(Webinar)	Kanpur Institute of Technology
3	Pragya Rathore	10800117062	23.06.2020	INDUSTRIAL ARTIFICIAL INTF''JGENCE	Jyothi Engineering College, Trissur
4	Siddhartha Pal	10800119075	15.06.2020	TECH-PRO (National level online project competition.)	Maharashtra Institute of Technology, Aurangabad
5	Suryadeep Sen	10800119004	15.06.2020	TECH-PRO (National level online project competition.)	Maharashtra Institute of Technology, Aurangabad
6	Sarbananda Maji	10800119052	12.07.2020	National level Online quiz on Cyber security	B V Raju Institute of Technology,Narsapur
7	Sayak Pal	10800119107	06.02.2020	C Programming Quiz, National level quiz competition.	Geetanjali Institute of Technical Studies, Udaipur
8	Saswata Chatterjee	10800119066	06.02.2020	C Programming Quiz, National level quiz competition.	Geetanjali Institute of Technical Studies, Udaipur
9	Abir Banerjee	10800117129	22.06.2020	Online coding competition	Venkateshwara Padmavathy Engineering College, Chennai

10	Abir Banerjee	10800117129	18.04.2020	National level Coding Challenge	JIS College of Engineering, Kalyani
11	Aiswarya Ghosh	10800117125	22.06.2020	Online coding competition	Venkateshwara Padmavathy Engineering College, Chennai
12	Akash Kumar	10800117123	22.06.2020	Online coding competition	Venkateshwara Padmavathy Engineering College, Chennai
13	Ankit Kumar	10800117113	22.06.2020	Online coding competition	Venkateshwara Padmavathy Engineering College, Chennai
14	Amit Kumar Gupta	10800117116	08.05.2020- 11.05.2020	Amity Mega Mind quiz	Amity University, UP
15	Amit Kumar Gupta	10800117116	30.05.2020	International Web Conference on Impact of Covid- 19on Education System	Dr.Babasaheb Ambedkar Marathwada University, Aurangabad, MS, India
16	Sourav Ghoshal	10800117029	22.06.2020	National level Coding Competition	PRINCE Shri Venkateshwara Padamavathy Engineering College, Chennai
17	Abhineet Gupta	10800117131	20.04.2020- 22.04.2020	Webinar on Emerging Trends	Vidyalankar Institute of Technology
18	Ramarch Kumar	10800116068	19.07.2020	Health Emergencies Programme	WHO
19	Queree Kumari	10800116076	21.05.2020	Competitive Programming	Vanya BK
20	Nitesh Kumar Yadav	10800117006	01-04- 20120	QUIZ FEST	IIT KANPUR
21	Nitesh Kumar Yadav	10800117006	22-04-2020	WEBINAR ON EMERGING TRENDS	VIT
22	Pramita Khan	10800119133	08/06/20	QUIZ	PARUL UNIVERSITY
23	Yadir Kalam	10800116011	08.11.2019- 10.11.2019	Vajra 19	BIT-Mesra
24	Suraj Sharma	10800117018	03.05.2020	National Level Python Quiz Contest-PQC 2020	Maruti Venkata Subba Rao Engineeering College, Hyderabad
25	Md. Meeraj Ansari	10800118091	08.06.2020	QUIZ	PARUL UNIVERSITY
26	Nilakshi Roy	10800118087	08.06.2020	QUIZ	PARUL UNIVERSITY
27	Shibodas Mallick	10800119129	08.06.2020	QUIZ	PARUL UNIVERSITY
	T 1	L ACODON	. 2 (2010 20)	Event Outside Stat	

 Table 4.6.3.BCAYm2 (2019-20) Event Outside State

CAYm2 (2019-20)Awards Received

Serial No.	Student Name	Roll No.	Date	Event	Venue	Awards
AEC/CSE/N	BA – 2022					164

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	1	Prem Kumar Choudhury	10800117060	19.10.2019	TECHNO- MANAGEMENT FEST	IIT(ISM),Dhanba d	3 rd
	2	Roshni Bose	10800119099 (Group)	31.01.2020 - 03.02.2020	Halla Bol (Street Drama)	ISM Dhanbad	1 st Runner Up
	3	VartikaKedia	10800116017	15.04.2020 - 17.04.2020	Conquer Covid-19 Hackathon	Narula Institute of Technology	2 nd Prize
	4	Ved Prakash	10800116016	15.04.2020 - 17.04.2020	Conquer Covid-19 Hackathon	Narula Institute of Technology	3 rd Prize

Table 4.6.3.CCAYm2 (2019-20) Awards Received

Participation in Inter-Institute events by students in CAYm3 (2018-19)

Participation in Event within State

Serial No.	Student Name	Roll No.	Date	Event	Venue
1	Rahul Prashad	10800118074	18.01.2019- 20.01.2019	KOLKATA ROBOTICS WORKSHOP, KSHITIJ, 2019	IIT KGP
2	Devyani Singh	10800115038	24.01.2019 - 27.01.2019	SPRING FEST	IIT,KGP
3	Shrabani Ghosh	10800118042	18.01.2019- 20.01.2019	KSHITIJ, 2019	IIT KGP
4	Shrabani Ghosh	10800118042	18.01.2019- 20.01.2019	Kolkata Robotics Workshop, KSHITIJ, 2019	IIT KGP
5	Amit Kumar Gupta	10800117116	12.10.2018	Quantam Knowledge Worshop 2018	Biswa Bangla Convention Centre, Newtown
6	Rajan Kumar	10800116070	07.02.2019- 10.02.2019	AAROHAN 2019	TECH FEST , NIT DURGAPUR
7 Rahul Kumar		10800116075	07.02.2019- 10.02.2019	AAROHAN 2019	TECH FEST , NIT DURGAPUR

Table 4.6.3.ACAYm3 (2018-19)Event within State

Participation in Event Outside State

Serial No.	Student Name	Roll No.	Date	Event	Venue
1	Rahul Kumar	10800118075	05.04.2019- 07.04.2019	OJASS'19 ANNUAL TECHNO-	NIT Jamshedpur

				MANAGEMENT FEST	
2	PushprajPriy	10800118076	05.04.2019- 07.04.2019	OJASS'19 ANNUAL TECHNO- MANAGEMENT FEST	NIT Jamshedpur
3	Prem Kumar Paul	10800118079	05.04.2019- 07.04.2019	OJASS'19 ANNUAL TECHNO- MANAGEMENT FEST	NIT Jamshedpur
4	Prashant Kumar	10800118081	05.04.2019- 07.04.2019	OJASS'19 ANNUAL TECHNO- MANAGEMENT FEST	NIT Jamshedpur
5	Utkarsh Kumar	10800117013	28.10.2018	CONCETTO 2018	IIT(ISM), Dhanbad
6	Tamal Mazumdar	10800117016	31.08.2018- 02.09.2018	CODE FEST 2018	IIT(BHU),Varanasi
7	Tamal Mazumdar	10800117016	28.10.2018	CONCETTO 2018	IIT(ISM), Dhanbad
8	Sudeep Kumar	eep Kumar 10800117021		CODE FEST 2018	IIT(BHU),Varanasi
9	Adarsh Verma	10800117128	28.10.2018	CONCETTO 2018	IIT(ISM), Dhanbad
10	Biswajit Singh	10800115030	02.11.2018- 04.11.2018	Vajra 18	BIT-Mesra
11	Ritika Mandhyan	10800117050	25.05.2019	KAAMCUBE SERVICES PVT. LTD.	Gurugram
12	Pragya Rathore	10800117062	02.02.2018	Blood Donation Camp	IIT(ISM) Dhanbad
13	Pallav Kumar	10800115072	02.11.2018- 04.11.2018	VAJRA 2018	BIT,Mesra
14	Queree Kumari	10800116076	24.02.2019	Indian Engineering Olympiad	Amrita School of Engineering,Karntak a
15	Srishti Kumari	10800117024	31.08.2018- 02.09.2018	CODE FEST 2018	IIT(BHU),Varanasi
16	Tanu Sinha	10800117015	31.08.2018- 02.09.2018	CODE FEST 2018	IIT(BHU),Varanasi

Table 4.6.3.BCAYm3 (2018-19) Event Outside State

CAYm3 (2018-19)Awards Received

Seria 1 No.	Student Name	Roll No.	Date	Event	Venue	Awards						
1	MayukBairagi	10800117078	01.11.2018 - 04.11.2018	FreeMex,Aavishkar 2.0	NIT, DGP	3rd						
2	Sushmita Dutta	10800118018	28.02.2019	Speech Competetion	Central University of Haryana,Mahend ragarh	3 rd						
3	Anukul Ojha	10800117107	01.11.2018 - 04.11.2018	Royal League,Aavishkar 2.0	NIT, DGP	1st						
L	Table 4.6.3.C CAYm3 (2018-19) Awards Received											
AEC/CS	SE/NBA – 2022					166						

CRITERION 5

FACULTY INFORMATION AND CONTRIBUTIONS

Criterion 5: Faculty Information and Contributions (200) CAY (2021-2022)

	Γ	1			1	1	1								1
		Q	ualificat	ion			د/				Acade	emic Re	search	aving (
S1. No.	Name of the Faculty Member	Degree (highest degree)	University	Year of attaining higher qualification	Association with the Institution	Designation	Date on which Designated as Professor/ Associate Professor	Date of Joining the Institution	Department	Specialization	Research Paper Publications	Ph.D. Guidance	Faculty Receiving Ph.D. during the Assessment Years	Currently Associated (Y/N) Date of Leaving (In case Currently Associated is (" No")	Nature of Association (Regular/Contract)
1	DEBASIS CHAKRABOR TY	PhD	JU	2015	Regul ar	Profes sor	02/01/ 2020	02/01/20 20	CSE	Machine Learning	1	1	0	Y	Regular
2	MONISH CHATTERJEE	PhD	JU	2012	Regul ar	Profes sor	01/01/ 2018	06/08/20 04	CSE	Optical Networks	3	3	1	Y	Regular
3	PINTU PAL	PhD	JU	2012	Regul ar	Profes sor	01/01/ 2018	01/06/20 12	CSE	Genetic Algorithms	0	0	0	Y	Regular
4	SANDIP ROY	PhD	JU	2019	Regul ar	Associ ate Profes sor	01-08- 2019	12-01- 2004	CSE	Cryptograp hy	1	0	0	Y	Regular
5	ABHISHEK BANDYOPAD HYAY	PhD	IIEST Shibpu r	2020	Regul ar	Associ ate Profes sor	01-11- 2020	01-10- 2012	CSE	Optical Networks	0	0	0	Y	Regular
6	SUBHENDU BARAT	PhD	NIT Durga pur	2019	Regul ar	Associ ate Profes sor	05-01- 21	05-01-21	CSE	Optical Networks	0	0	0	Y	Regular
7	KHUSBU CHANDRAKA R	PhD	NIT Durga pur	2020	Regul ar	Assist ant Profes sor	NA	05-01-21	CSE	VLSI	0	0	0	Y	Regular
8	UJJWAL KUMAR KAMILA	M.TE CH	WBU T	2010	Regul ar	Assist ant Profes sor	NA	30-08- 2005	CSE		1	NA	0	Y	Regular
9	KINGSHUK BANERJEE	M.TE CH	NIT, Durga pur	2013	Regul ar	Assist ant Profes sor	NA	14-08- 2014	CSE		0	NA	0	Y	Regular
10	VEDATRAYE E CHATTERJEE	M.TE CH	WBU T	2008	Regul ar	Assist	NA	16-07- 2008	CSE		0	NA	0	Y	Regular
Δ	FC/CSF/NBA	202	2												169

	I	1	1		I			1				I		I	
						sor									
11	UDDALOK SEN	M.TE CH	NIT, Durga pur	2011	Regul ar	Assist ant Profes sor	NA	01-08- 2006	CSE		1	NA	0	Y	Regular
12	TAPAN KUMAR DAS	M.TE CH	WBU T	2011	Regul ar	Assist ant Profes sor	NA	22.12.200 5	CSE		0	NA	0	Y	Regular
13	SUJOY KUMAR BASU	M.TE CH	JU	2009	Regul ar	Assist ant Profes sor	NA	09.09.200 5	CSE		0	NA	0	Y	Regular
14	SUBHAS CHANDRA NATH	M.TE CH	NIT, Durga pur	2009	Regul ar	Assist ant Profes sor	NA	07-07- 2005	CSE		0	NA	0	Y	Regular
15	SIMANTA HAZRA	M.TE CH	NIT, Durga pur	2012	Regul ar	Assist ant Profes sor	NA	12-02- 2001	CSE		0	NA	0	Y	Regular
16	SHIBSANKAR BALA	M.TE CH	BIT, Mesra	2002	Regul ar	Assist ant Profes sor	NA	07-12- 2005	CSE		0	NA	0	Y	Regular
17	SHATABDI SAHA	M.TE CH	Kalya ni Univer sity	2007	Regul ar	Assist ant Profes sor	NA	10-09- 2007	CSE		0	NA	0	Y	Regular
18	SABYASACHI MUKHERJEE	M.TE CH	WBU T	2007	Regul ar	Assist ant Profes sor	NA	16-01- 2017	CSE		0	NA	0	Y	Regular
19 20	PRANABES GANGOPADH YAY	M.TE CH	BESU	2008	Regul ar	Assist ant Profes sor	NA	18-07- 2008	CSE		0	NA	0	Y	Regular
20	LUMBINI BHAUMIK	M.TE CH	WBU T	2008	Regul ar	Assist ant Profes sor	NA	23-07- 2008	CSE		0	NA	0	Y	Regular
21	BIPLAB KUMAR MANDAL	M.TE CH	CU	2007	Regul ar	Assist ant Profes sor	NA	09.08.200 7	CSE		0	NA	0	Y	Regular
22	DEBEBRATA MAITY	M.TE CH	CU	2007	Regul ar	Profes sor	NA	28.08.200 6	CSE		0	NA	0	Y	Regular
23	RINKU DUTTA RAKSHIT	Ph. D	NIT DGP	2021	Regul ar	Associ ate Profes sor	NA	19.12.201 1	CSE	Image Processing	6	0	0	Y	Regular

						CA	Ym1	(2020-	2021)					
		Q	ualificati	ion			r/				Acade	emic Re	search	aving (
SI. No.	Name of the Faculty Member	Degree (highest degree)	University	Year of attaining higher qualification	Association with the Institution	Designation	Date on which Designated as Professor/ Associate Professor	Date of Joining the Institution	Department	Specialization	Research Paper Publications	Ph.D. Guidance	Faculty Receiving Ph.D. during the Assessment Years	Currently Associated (Y/N) Date of Leaving (In case Currently Associated is (" No")	Nature of Association (Regular/Contract)
1	DEBASIS CHAKRABOR TY	PhD	JU	2015	Regul ar	Profes sor	02/01/ 2020	02/01/20 20	CSE	Machine Learning	0	1	1	Y	Regular
2	MONISH CHATTERJEE	PhD	JU	2012	Regul ar	Profes sor	01/01/ 2018	06/08/20 04	CSE	Optical Networks	1	3	2	Y	Regular
3	PINTU PAL	PhD	JU	2012	Regul ar	Profes sor	01/01/ 2018	01/06/20 12	CSE	Genetic Algorithms	0	0	0	Y	Regular
4	ANUP KUMAR MUKHOPAD HYAY	PhD	IIT- ISM Dhanb ad.	2019	Regul ar	Associ ate Profes sor	01/05/ 2019	29/03/20 04	CSE	Solid Mechanics	0	0	0	Y	Regular
5	SANDIP ROY	PhD	JU	2019	Regul ar	Associ ate Profes sor	01-08- 2019	12-01- 2004	CSE	Cryptograp hy	0	1	0	Y	Regular
6	ABHISHEK BANDYOPAD HYAY	PhD	IIEST Shibpu r	2020	Regul ar	Associ ate Profes sor	01-11- 2020	01-10- 2012	CSE	Optical Networks	0	0	0	Y	Regular
7	ABHISHEK BANERJEE	PhD	JU	2019	Regul ar	Associ ate Profes sor	01-10- 2019	01.06.200 5	CSE	Reliability Optimizati on	0	1	0	Y	Regular
8	UJJWAL KUMAR KAMILA	M.TE CH	WBU T	2010	Regul ar	Assist ant Profes sor	NA	30-08- 2005	CSE		1	NA	0	Y	Regular
9	KINGSHUK BANERJEE	M.TE CH	NIT, Durga pur	2013	Regul ar	Assist ant Profes sor	NA	14-08- 2014	CSE		0	NA	0	Y	Regular
10	VEDATRAYE E CHATTERJEE	M.TE CH	WBU T	2008	Regul ar	Assist ant Profes sor	NA	16-07- 2008	CSE		0	NA	0	Y	Regular
	UDDALOK	M.TE	NIT,	2011	Regul	Assist	NA	01-08-	CSE		1	NA	0	Y	Regular
A	EC/CSE/NBA -	2022	2											-	171

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11	SEN	СН	Durga pur		ar	ant Profes sor		2006							
12	TAPAN KUMAR DAS	M.TE CH	WBU T	2011	Regul ar	Assist ant Profes sor	NA	22.12.200 5	CSE		0	NA	0	Y	Regular
13	SUJOY KUMAR BASU	M.TE CH	JU	2009	Regul ar	Assist ant Profes sor	NA	09.09.200 5	CSE		0	NA	0	Y	Regular
14	SUBHAS CHANDRA NATH	M.TE CH	NIT, Durga pur	2009	Regul ar	Assist ant Profes sor	NA	07-07- 2005	CSE		0	NA	0	Y	Regular
15	SIMANTA HAZRA	M.TE CH	NIT, Durga pur	2012	Regul ar	Assist ant Profes sor	NA	12-02- 2001	CSE		0	NA	0	Y	Regular
16	SHIBSANKAR BALA	M.TE CH	BIT, Mesra	2002	Regul ar	Assist ant Profes sor	NA	07-12- 2005	CSE		0	NA	0	Y	Regular
17	SHATABDI SAHA	M.TE CH	Kalya ni Univer sity	2007	Regul ar	Assist ant Profes sor	NA	10-09- 2007	CSE		0	NA	0	Y	Regular
18	SABYASACHI MUKHERJEE	M.TE CH	WBU T	2007	Regul ar	Assist ant Profes sor	NA	16-01- 2017	CSE		0	NA	0	Y	Regular
19	PRANABES GANGOPADH YAY	M.TE CH	BESU	2008	Regul ar	Assist ant Profes sor	NA	18-07- 2008	CSE		0	NA	0	Y	Regular
20	LUMBINI BHAUMIK	M.TE CH	WBU T	2008	Regul ar	Assist ant Profes sor	NA	23-07- 2008	CSE		0	NA	0	Y	Regular
21	BIPLAB KUMAR MANDAL	M.TE CH	CU	2007	Regul ar	Assist ant Profes sor	NA	09.08.200 7	CSE		0	NA	0	Y	Regular
22	DEBEBRATA MAITY	M.TE CH	CU	2007	Regul ar	Assist ant Profes sor	NA	28.08.200 6	CSE		0	NA	0	Y	Regular
23	RINKU DUTTA RAKSHIT	Ph. D	NIT DGP	2021	Regul ar	Assist ant Profes sor	NA	19.12.201 1	CSE	Image Processing	6	0	0	Y	Regular

						CA	Ym2	(2019-2	020)						
		Q	ualificat	ion			د/				Acade	emic Re	search	aving (
SI. No.	Name of the Faculty Member	Degree (highest degree)	University	Year of attaining higher qualification	Association with the Institution	Designation	Date on which Designated as Professor/ Associate Professor	Date of Joining the Institution	Department	Specialization	Research Paper Publications	Ph.D. Guidance	Faculty Receiving Ph.D. during the Assessment Years	Currently Associated (Y/N) Date of Leaving (In case Currently Associated is (" No")	Nature of Association (Regular/Contract)
1	MONISH CHATTERJEE	PhD	JU	2012	Regul ar	Profes sor	01/01/ 2018	06/08/20 04	CSE	Optical Networks	5	3	0	Y	Regul ar
2	PINTU PAL	PhD	JU	2012	Regul ar	Profes sor	01/01/ 2018	01/06/20 12	CSE	Genetic Algorithms	0	0	0	Y	Regul ar
3	ANUP KUMAR MUKHOPAD HYAY	PhD	IIT- ISM Dhanb ad.	2019	Regul ar	Associ ate Profes sor	01/05/ 2019	29/03/20 04	CSE	Solid Mechanics	0	0	0	Y	Regul ar
4	SANDIP ROY	PhD	JU	2019	Regul ar	Associ ate Profes sor	01-08- 2019	12-01- 2004	CSE	Cryptograp hy	3	0	0	Y	Regul ar
5	ABHISHEK BANDYOPAD HYAY	Ph.D	IIEST Shibpu r	2020	Regul ar	Assist ant Profes sor	NA	01-10- 2012	CSE	Optical Networks	0	0	0	Y	Regul ar
6	ABHISHEK BANERJEE	PhD	JU	2019	Regul ar	Associ ate Profes sor	01-10- 2019	01.06.200 5	CSE	Reliability Optimizati on	0	0	0	Y	Regul ar
7	UJJWAL KUMAR KAMILA	M.TE CH	WBU T	2010	Regul ar	Assist ant Profes sor	NA	30-08- 2005	CSE		0	NA	0	Y	Regul ar
8	KINGSHUK BANERJEE	M.TE CH	NIT, Durga pur	2013	Regul ar	Assist ant Profes sor	NA	14-08- 2014	CSE		0	NA	0	Y	Regul ar
9	VEDATRAYE E CHATTERJEE	M.TE CH	WBU T	2008	Regul ar	Assist ant Profes sor	NA	16-07- 2008	CSE		0	NA	0	Y	Regul ar
10	UDDALOK SEN	M.TE CH	NIT, Durga pur	2011	Regul ar	Assist ant Profes sor	NA	01-08- 2006	CSE		0	NA	0	Y	Regul ar
AE	C/CSE/NBA -	2022												17	73

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11	TAPAN KUMAR DAS	M.TE CH	WBU T	2011	Regul ar	Assist ant Profes sor	NA	22.12.200 5	CSE		0	NA	0	Y	Regul ar
12	SUJOY KUMAR BASU	M.TE CH	JU	2009	Regul ar	Assist ant Profes sor	NA	09.09.200 5	CSE		0	NA	0	Y	Regul ar
13	SUBHAS CHANDRA NATH	M.TE CH	NIT, Durga pur	2009	Regul ar	Assist ant Profes sor	NA	07-07- 2005	CSE		0	NA	0	Y	Regul ar
14	SIMANTA HAZRA	M.TE CH	NIT, Durga pur	2012	Regul ar	Assist ant Profes sor	NA	12-02- 2001	CSE		0	NA	0	Y	Regul ar
15	SHIBSANKAR BALA	M.TE CH	BIT, Mesra	2002	Regul ar	Assist ant Profes sor	NA	07-12- 2005	CSE		0	NA	0	Y	Regul ar
16	SHATABDI SAHA	M.TE CH	Kalya ni Univer sity	2007	Regul ar	Assist ant Profes sor	NA	10-09- 2007	CSE		0	NA	0	Y	Regul ar
17	SABYASACHI MUKHERJEE	M.TE CH	WBU T	2007	Regul ar	Assist ant Profes sor	NA	16-01- 2017	CSE		0	NA	0	Y	Regul ar
18	PRANABES GANGOPADH YAY	M.TE CH	BESU	2008	Regul ar	Assist ant Profes sor	NA	18-07- 2008	CSE		0	NA	0	Y	Regul ar
18 19	LUMBINI BHAUMIK	M.TE CH	WBU T	2008	Regul ar	Assist ant Profes sor	NA	23-07- 2008	CSE		0	NA	0	Y	Regul ar
20	BIPLAB KUMAR MANDAL	M.TE CH	CU	2007	Regul ar	Assist ant Profes sor	NA	09.08.200 7	CSE		0	NA	0	Y	Regul ar
20	DEBEBRATA MAITY	M.TE CH	CU	2007	Regul ar	Assist ant Profes sor	NA	28.08.200 6	CSE		0	NA	0	Y	Regul ar
22	RINKU DUTTA RAKSHIT	M. Tech	NITT R	2011	Regul ar	Assist ant Profes sor	NA	19.12.201 1	CSE	Image Processing	0	NA	0	Y	Regul ar

5.1 Student Faculty Ratio (20) UG : No. of UG programs in the department: 01

	CA	AY (2021-22)	CAY	Ym1 (2020-21)	CAYm2(2019-20)			
Year	Sanction Intake	Actual admitted through lateral entry	Sanction Intake	Actual admitted through lateral entry	Sanction Intake	Actual admitted through lateral entry		
2nd Year	180	15	120	12	120	12		
3rd Year	120	12	120	12	120	11		
4th Year	120	12	120	11	120	11		
Sub-total	420	39	360	35	360	34		
Total	459			395	394			

	1						
Year of Study	CAY(2021- 22)	CAYm1(2020- 21)	CAYm2(2019- 20)	Year of Study			
Total No. of Students	459	395	394	Total No. of Students			
Total No. of Faculty	23	23	22	Total No. of Faculty			
Student Faculty Ratio (SFR)	19.96	17.17	17.91	Student Faculty Ratio (SFR)			
Average SFR $(SFR1+SFR2+SFR3)/3 = 18.35$							
F=Total No. of Faculty.							

5.1.1 Provide the information about the regular and contractual faculty as per the format mentioned below:

Academic Year	Total no. of regular faculty in the department	Total no. of contractual faculty in the department
CAY(2021-22)	23	0
CAYm1 (2020-21)	23	0
CAYm2 (2019-20)	22	0

Average SFR for three assessment years: 18.35

5.2 Faculty Cadre Ratio (25)

	Prof	fessor	Associate	Professor	Assistant Professor		
Year	Required F1	Available	Required F2	Available	Required F3	Available	
CAY(2021-2022)	2.0	3.0	5.0	4.0	16	16	
CAYm1(2020-2021)	2.0	3.0	4.0	4.0	14	16	
CAYm2(2019-2020)	2.0	2.0	4.0	3.0	14	17	
Average	2.0	2.67	4.33	3.67	14.67	16.33	

(AF1/RF1)+[AF2/RF2*0.6]+[AF3/RF3*0.4]*12.5

= (1.335*1.0 + 0.848*0.6 + 1.11*0.4)*12.5 = 29.63

5.3 Faculty Qualification (25)

Academic Year	X	Y	F	FQ=2.5*[(10X+4Y)/F)]
CAY(2021-2022)	8	15	22	15.91
CAYm1(2020-2021)	7	16	19	17.63
CAYm2(2019-2020)	5	17	19	15.53

Average Assessment: 16.36

5.4 Faculty Retention: (25)

Description	2019-20	2020-21	2021-22
No. Faculty Retained	22	22	21
Total no. of Faculty	22	23	23
% of Faculty Retained	100	100	95

Average: 98

5.5 Innovations by the Faculty in Teaching and Learning (20)

The objective is to establish quality and effective teaching learning system and so, the practices followed have two components e.g. conventional and innovative ones.

Innovations by the faculty in teaching and learning are summarized below with the conventional ones.

A. Learning Materials:

Conventional: Text books, reference books, journal papers, e-learning materials (NPTEL etc.).

Innovative:

(a) **Learning Outcome based Lecture Plan**- Lecture plans are prepared to comply with course outcomes. These are made available to the students so that the level of learning outcome of each topic is understood by them.

(b) **Course-ware**- Designing the courseware and making it available through website and/or through digital library of the Institute for use by the students.

Review Process;-The learning materials are reviewed periodically (not less than once in a semester) internally by experienced teachers taking into account student feedback and assessment results.

B. Instruction Delivery: Use of teaching aids.

Conventional: Class room lectures using black / white board, handouts, PPT.



(a) Digital

(a) Digital board (Smart Class Room):- Using video projection of the writing of the instructions on paper instead of writing on the black board. This improves the quality of lecture (as the teacher is more relaxed) and improves the class room ambiance.

(b) Project-based learning:-Project-based learning uses realworld scenarios, challenges, and problems to engage students in critical thinking, problem solving, teamwork, and selfmanagement. Once students solve the problem, they present

their solutions.

C. Instructional Methods:

Conventional: Class room lectures using conventional or modern teaching aides.

Innovative:

(a) Coordination between theory and practice:- Coordination between theory and practice: - Emphasis is on putting theory into practice as much as possible. Effective teaching learning of engineering problems require clear understanding of the issues, what needs to be solved and how to solve. This requires application of the fundamental concepts learned during the theory class through designing algorithms and flowcharts. In some cases knowledge of tools and equipment needed to solve the problem may also play a critical role. In such cases the coordination between the theory learned and its applications during the practical classes can be more effective for developing a complete knowledge of how to solve an engineering problem. Implementing algorithms in programming languages like C, Java etc. can boost students 'confidence. Also selecting and using the appropriate data structures in programs can give them a real time experience. Also emphasis on practical classes can improve their knowledge of using and learning about Operating Systems, Communication Networks and Databases. Further implementing programs in different languages will enhance their skills for the industry. Students understand the concept of circuits using gates through the paper Computer Organization and Architecture.

(b) In-house Training:- Students are imparted in-house training from industry experts for enhancing their professional skills as per the requirements of the industry.

D. Class room Interaction:

Conventional: Quizzes, question answers.

Innovative:

(a) Learn while teaching- the students are invited to volunteer for delivery of topics / sub topics related to the course in consultation with the teacher, who helps the student with relevant learning materials. At the end of the delivery of the topic by the student, the teacher along with other students discuss the essential points, if any, the speaker has missed. Such experience develops the self-learning capacity of a student as well as ability for communication.

- (b) Incentive based class room interaction- Quizzes and question answer sessions are arranged to make them competitive between different groups in the class. The subject / topic are announced beforehand. It makes student to develop team work as well as self-learning capacity. To make it more interesting the questions may be framed by the competitive groups for the opponent groups.
- (c) Interaction during Laboratory Classes- The students are asked to come prepared with the flow chart and objective of the experiment. The interaction with the student(s) starts from the beginning and at every stage discussions are held for assessment as well as for explanation of the experiment. At the end of the experiment, discussions on the output are encouraged.



Review Process: Departmental Seniors, student feedback (oral).

E. Assessment and Evaluation:

Conventional: Unit tests, continuous evaluation tools like quizzes, tutorials, assignments.

Innovative: Modern Technical Education demands learning outcome based assessment. To achieve the objective, assessment and evaluation methods are introduced as given below:-

a. Open Book Examination- One of the unit tests, preferably the last one is an open book examination. This test is so designed that it can assess attitude for research, for solving complex problems, analytical skill and self-learning capacity.

b. Modified format for MCQ questions- To avoid ticking the distracters at random, 50% marks are allotted to a brief "justification" for the choice of the distracter.

c. Designing CO (Course Outcome) based assessment tools:- The Class test question papers are set as per University norms by external experts. Hence to achieve the above objective three unit tests, tutorial sheets, assignments are arranged in an order that addresses the course outcomes. Evaluation of the question papers, tutorials, assignments question wise vis-à-vis CO wise is a measure of attainment in specific CO.

Display Mode:-Announcement to students before examinations.

Review Process:- Internally by departmental committee and student performance.

F. Need Based Classrooms:

Conventional: All students are treated at par. Innovative:

(a) For Academically Weaker Students- identified via interaction, continuous evaluation and university examinations (e.g., Back loggers). The classes are allotted at the pre first period of the day so that all students need not attend the college so early. In case of a handful number of such students in a specific course, the

teacher concerned is given the liberty to arrange such classes during their mutually convenient hours. This has been fruitful as students were able to clear the backlog papers.

(b) For Brighter Students- they are automatically identified through examination and interaction. Since the University does not have provisions to reward them academically, such as, earning extra credits, the Department/Institute encourages such students through

i) Rewards and Prizes

ii) Arranging Coaching for GATE for the motivated students.

(c) For enhancement of Domain knowledge of students- Domain knowledge lectures by senior and experienced faculty taking care of explaining/combing the important topics/areas for prospective employers.

Display Mode: Website, Notice boards.

Review Process: Internally and Semester wise, reparation starts from the publication of University results.

The Innovations by the Faculty in Teaching and Learning are summarized in the table below:

Sl.	Items	Components	Source	Remarks
No.				(Display mode)
	Learning	Learning Outcome based	Course Instructor	Department,
	Materials	Lesson Plans		Library
		Course Ware	Selective	Website, Library
1			Experienced	
			Faculty	
		E-Learning	NPTEL	Website, Library
		Materials		
	Instructional	Use of Teaching Aides:	a. Digital Board	a. Seminar Room
	Delivery			
		a. Smart Class Room	b. Faculty	b. Various Labs.
		b. Project-Based		
		Learning		
		Instructional Methods:	a. Industrial	a. Various Labs of the
			practices and	Department.
		a. Coordination	models	
		between theory and		b. Various Labs of the
		practice	b. Facilitator	Department.
2		b. In-house training		
2		Class room Interaction	a. Individual faculty	a. Class room activity
		Cluss room interaction	a. marviduai faculty	different from usual
		a. Learn while		seminars
		Teaching	b. Topic based quizzes, Q-	50mmur5
			A	b. Class room activity
		b. Incentive based	between different	Organized the
		class room	groups	competitive mode
		interaction	D	- simpetitive mode
			c. Laboratory	c. Laboratory activity
			Instructors	
		c. Laboratory class room		
		interaction		
	Assessment	a. Open Book Exam	a. Individual faculty	a. Unit Test, Tutorial
3	and			
	BA - 2022			

	Evaluation	b. Modified format for MCQ questions	b. Individual faculty	b. Unit Test
		c. Designing CO based assessment tools	c. Individual faculty	c. Unit Test, Tutorial
	Need Based	a. For academically	a. Most of the	a. Special Classes at
	Class	weaker students	faculty	designated hours.
	Rooms			Ū.
		b. For brighter	b. Coaching for	b. Selective
4		students	GATE, etc.	Experienced
4				Faculty
		c. For Career	c. External &	
		guidance	Internal	c. Special Classes
		-	experienced	-
			faculty	

CSE Academic Resources

- a) https://us04web.zoom.us/j/77105293061?pwd=NWg1TGgzeHVDS21kaGtOa1F0K2ZMUT09
- b) https://us04web.zoom.us/j/6604272675?pwd=Smh4dStycWt6MHF1WExyWGorbDBGQT09
 - 1. Sample VIDEO and PPT link: https://aecwb.edu.in/?pn=acdmcRsrc
 - 2. Sample online class link lecture: https://us04web.zoom.us/j/76228755505?pwd=VFhtRmFyekJhNkxpSlllZWRJcjMwZz09

5.6 Faculty as participants in Faculty development/training activities/STTPs (15)

Sl. No.	Name of the Faculty	Max 3 per Faculty		
		2020-21	2019-20	2018-19
		(CAYm1)	(CAYm2)	(CAYm3)
1	Dr. Debashis Chakraborty	3	-	-
2	Dr. Monish Chatterjee	3	3	3
3	Dr. Sandip Roy	3	3	3
4	Dr. Anup Kumar Mukhopadhyay	3	3	3
5	Dr. Pintu Pal	3	3	3
6	Dr. Abhishek Bandyopadhyay	3	3	3
7	Dr. Avishek Banerjee	3	3	3
8	Mr. Shibsankar Bala	3	3	3
9	Mr. Uddalok Sen	3	3	3
10	Mr. Sujoy Kumar Basu	3	3	3
11	Mr. Subhas Chandra Nath	3	3	3
12	Mr. Tapan Kumar Das	3	3	3
13	Mr. Simanta Hazra	3	3	3
14	Mr. Ujjwal Kumar Kamila	3	3	3
15	Mr. Biplab Kumar Mandal	3	3	3
16	Mr. DebabrataMaity	3	3	3
17	Mrs. Shatabdi Saha	3	3	3
18	Mr. Pranabes Gangopadhyay	3	3	3
19	Mrs. Vedatrayee Chatterjee	3	3	3
20	Mrs. Lumbini Bhaumik	3	3	3
21	Mr. Sabyasachi Mukherjee	3	3	3

22	Mrs. Rinku Datta Rakshit	3	3	3
23	Mr.Kinshuk Banerjee	3	3	3
	Sum	69	66	66
	RF = Number of Faculty required to comply with 20:1 Student Faculty Ratio as per 5.1	19	19	19
	Assessment [3*(Sum / (0.5*RF))]	21.79	20.84	20.84
	Average Assessment over three years	21.16		

5.7 Research and Development (30)

Serial No	Quality publication in referred/SCI journals[CAY (2021-22)]		
1	DDoS attack resisting authentication protocol for mobile based online soc network applications," Journal of Information Security and Applications, Elsevi Volume 65, March 2022, 103115, (Impact factor: 3.872, Indexed in - Scien Citation Index Expanded (SCIE), Scopus and others).		
2	S. Begum, R.Sarkar, D. Chakraborty , S. Sen and U.Maulik, " <i>Application of active learning in DNA microarray data for cancerous gene identification</i> ", in Expert Systems with Applications, Elsevier , Vol.177, September2021, 114914. (Impact factor: 6.954 , Indexed in - Science Citation Index Expanded (SCIE), Scopus and others).	0	
3	S.Paira, M. Chatterjee and U. Bhattacharya, "On Survivable Energy-Efficient and Crosstalk-aware Routing, Spectrum and Core Allocation schemes for Dynamic Multiclass Traffic in SDM-EONs", in Optical Switching and Networking, Elsevier, Vol. 42,November, 2021,100630.(Impact Factor – 2.786, Indexed in - Science Citation Index Expanded (SCIE) and others).	1	
4	J.Halder, T.Acharya, M.Chatterjee and U.Bhattacharya, " <i>ES-RSM-RSA: A novel</i> <i>Energy and Spectrum efficient Regenerator aware Multipath based Survivable RSA</i> <i>in offline EON</i> ", in IEEE Transactions on Green Computing and Networking , Vol. 5, No. 3,September 2021,pages 1451 – 1466.	3	
5	S.Das and M.Chatterjee, "Network Dimensioning and Survivability of Orthogonal Frequency Division Multiplexed Transparent Optical Grids: An Online Relocation Based Solution", IEEE Access, Vol. 9, Aug 2021, pages 120481–120491.(Impact Factor: 3.367, Indexed in - Science Citation Index Expanded (SCIE), Journal Citation Reports and others).	0	
Serial No	Quality publication in referred/SCI journals [CAYm1 (2020-21)]	Citations	
1	J. Halder, T. Acharya, M. Chatterjee and U. Bhattacharya, " <i>On spectrum and energy efficient survivable multipath routing in off-line Elastic Optical Network</i> ", Computer Communications, Elsevier , Vol. 160, July 2020, pages 375-387. (Impact Factor: 3.167 , Indexed in - Science Citation Index Expanded (SCIE), Scopus and others).	8	
Serial No	Quality publication in referred/SCI journals [CAYm2 (2019-20)]	Citations	
1	S. Paira, J. Halder, M. Chatterjee , U. Bhattacharya, "On Energy Efficient Survivable Multipath Based Approaches in Space Division Multiplexing Elastic Optical Network: Crosstalk-Aware and Fragmentation-Aware", IEEE Access , Vol.8, No.1, March 2020, pages 47344 – 47356. (Impact Factor: 3.367 , Indexed in - Science Citation Index Expanded (SCIE), Journal Citation Reports and others).	16	

2	A. Bhattacharya, M.Sarder, M. Chatterjee and D.Saha, " <i>Efficient integration of logical topology design and survivable traffic grooming for throughput enhancement in WDM optical networks</i> ", IEEE Access , Vol. 8, No.1,March 2020, pages58155-58170.(Impact Factor: 3.367 , Indexed in - Science Citation Index Expanded (SCIE), Journal Citation Reports and others).	1
3	M. Bhattacharya, S. Roy, K.Mistry, H. P.H. Shum and S.Chattopadhyay, "A <i>Privacy-Preserving Efficient Location-Sharing Scheme for Mobile Online Social Network Applications</i> ", IEEE Access , Vol. 8, pages.221330-221351,2020.(Impact Factor: 3.367 , Indexed in - Science Citation Index Expanded (SCIE), Journal Citation Reports and others).	2
4	S. Banerjee, S. Roy, V. Odelu, A.K. Das, S. Chattopadhyay, J.J.P.C Rodrigues and Y. Park, " <i>Multi-Authority CP-ABE-Based user access control scheme with constant-</i> <i>size key and cipher text for IoT deployment</i> ", Journal of Information Security and Applications, Elsevier, Vol.53, August 2020, 102503. (Impact factor: 3.872, Indexed in - Science Citation Index Expanded (SCIE) and others).	16
5	V. Dey, A. Bandyopadhyay, U. Bhattacharya and M. Chatterjee, "An offline scheme for reducing cost of protection in all-optical WDM mesh networks with fast recovery", International Journal of Parallel Emergent and Distributed Systems, Taylor and Francis, U.K., Vol.34, No.5, 2019, pages-572-593. (CiteScore: 2.2, Indexed in – Scopus (Elsevier), Emerging Sources Citation Index (Thomson Reuters) and others.	2
6	I. Nath, V.Dey, J.Halder, M.Chatterjee and U.Bhattacharya, " <i>Minimizing Cost of Regeneration at Regeneration Sites - A New Approach for Dynamic Lightpath Establishment in Translucent Optical Networks</i> ", IEEE Access , Vol.8, No.1, Dec 2019, pages 4198-4210. (Impact Factor: 3.367 , Indexed in - Science Citation Index Expanded (SCIE), Journal Citation Reports and others).	0
7	S. Khanam, V. Dey, M. Chatterjee and U. Bhattacharya, " <i>An offline cost-efficient strategy for multicast traffic protection in WDM optical mesh networks to aid rapid recovery</i> ", Optical Switching and Networking, Elsevier , Vol. 34, 2019, pages 47–57. (Impact Factor – 2.786 , Indexed in - Science Citation Index Expanded (SCIE) and others).	1
8	S. Roy , A. K Das, S. Chatterjee, N. Kumar, S. Chattopadhyay, and J. J. P. C. Rodrigues. " <i>Provably Secure Fine-Grained Data Access Control over Multiple Cloud Servers in Mobile Cloud Computing Based Healthcare Applications</i> ", IEEE Transactions on Industrial Informatics , Vol. 15, No. 1, pp. 457-468, Jan-2019. (Impact Factor: 10.215 , Indexed in - Science Citation Index Expanded and others).	73
Serial No	Quality publication in referred/SCI journals [CAYm3 (2018-19)]	Citations
1	J. Halder, S. Paira, S. Das, M. Chatterjee , and U. Bhattacharya, "A Multipath- Based Survivability Scheme in Energy-Efficient EON", IEEE Communication Letters, vol. 22, no.1, October 2018, pages 2024-2027. (Impact factor – 3.436, Indexed in – Science Citation Index, Science Citation Index Expanded and others).	14
2	S. Roy , S. Chatterjee, A. K. Das, S. Chattopadhyay, S. Kumari, and M. Jo. " <i>Chaotic Map-based Anonymous User Authentication Scheme with User Biometrics and Fuzzy Extractor for Crowdsourcing Internet of Things</i> ", IEEE Internet of Things Journal , Vol. 5, No. 4, pp. 2884-2895, 2018. (Impact Factor – 11.75 , Indexed in - Science Citation Index Expanded and others).	119
3	S. Roy , S. Chatterjee and G. Mahapatra. "An Efficient Biometric Based Remote User Authentication Scheme for Secure Internet of Things Environment", Journal of	12

	Intelligent & Fuzzy Systems, IOS Press, Netherlands, vol. 34, no. 3, pp. 1403-	
	1410, 2018. (Impact Factor - 1.851, Indexed in - Science Citation Index Expanded	
	and others).	
4	S. Chatterjee, S. Roy, A. K. Das, S. Chattopadhyay, N. Kumar, and A. V. Vasilakos.	146
	"Secure Biometric-Based Authentication Scheme using Chebyshev Chaotic Map for	
	Multi-Server Environment". IEEE Transactions on Dependable and Secure	
	Computing, Vol. 15, No. 5, pp. 824-839, September 2018. (Impact Factor – 7.329,	
	Indexed in - Science Citation Index Expanded and others).	
5	S. Chatterjee and S. Roy, "An Efficient Fine-grained Access Control Scheme for	2
	Hierarchical Wireless Sensor Networks". International Journal of Ad Hoc and	
	Ubiquitous Computing, Inderscience Publishers, Vol. 29, No.3, pp.161 – 180,	
	2018. (Impact Factor - 0.654, Indexed in - Science Citation Index Expanded and	
	others).	
6	S. Chatterjee and S. Roy. "An Efficient Dynamic Access Control Scheme for	5
	Distributed Wireless Sensor Networks", International Journal of Ad Hoc and	
	Ubiquitous Computing, Inderscience Publishers, Vol. 27 no. 1, Pages 1-18, 2018.	
	(Impact Factor - 0.714, Indexed in - Science Citation Index Expanded and others).	

5.7.1. Academic Research (10)

Book / Book Chapters:

Sl No.	Book / Book Chapters (CAYm2, 2019-20)
1	R. D. Rakshit, and D. R. Kisku, "Face Identification via Strategic Combination of Local
	Features", in A. Das, J. Nayak, B. Naik, S.Pati and D. Pelusi (eds) Computational
	Intelligence in Pattern Recognition, Advances in Intelligent Systems and Computing,
	Vol.999, Springer, Singapore, 2020.
2	H. N. Jha, S. Gupta S. and D. Maity , "Effect of Wormwhole attack on MANET," in Design
	Frameworks for Wireless Networks, Lecture Notes in Networks and Systems Vol. 82,
	2020, Springer Nature Singapore Pte Ltd, ISBN 987-981-13-9573-4.
	Book / Book Chapters (CAYm3, 2018-19)
3	S. Mukherjee and L. Bhaumik, "Simultaneous Clustering and Feature Selection Using
	Nature-Inspired Algorithm," Springer Lecture Notes in Networks and Systems, Vol.41,
	pages.545-550, February, 2019.
4	U.K. Kamila, O. Bandyopadhyay and and A. Biswas, "Detection of Hemorrhagic Region
	in Brain MRI," Springer Lecture Notes in Networks and Systems, Vol.46, pages 383-391,
	September, 2018

Conference Publications

Sl No.	
	Conference Publications (CAY, 2021-22)
1	S. Paira, U. Bhattacharya, and M. Chatterjee , "A crosstalk-aware and energy-saving survivable RSCA for online prioritized traffic in SDM-EONs, in IEEE Proc. of 12th International Conference on Computing Communication and Networking Technologies (ICCCNT), 2021, IIT Karagpur, India.

	Conference Publications (CAYm1, 2020-21)
1	S. Paira, J. Halder, U. Bhattacharya and M. Chatterjee , "A novel fragmentation-aware and energy-efficient multipath routing and spectrum allocation for prioritized traffic in protected EONs," in IEEE Proc. Of 11th International Conference on Computing, Communication and Networking Technologies (ICCCNT), 2020, IIT Kharagpur, India.
2	J. Halder, T. Acharya, M. Chatterjee , and U. Bhattacharya, "Optimal Design of Energy Efficient Survivable Routing & Spectrum Allocation in EON, in IEEE Proc. of 11th International Conference on Computing, Communication and Networking Technologies (ICCCNT), 2020, IIT Karagpur, India.
3	A. Bhattacharya, H. Kumbhakar, M. Chatterjee and D. Saha, "Controlling Traffic Hops-A New Approach for Traffic Grooming in WDM Optical Networks, in IEEE Proc. of International Conference on Electronics, Computing and Communication Technologies (IEEE CONECCT), 2020, Bangalore, India.
	Conference Publications (CAYm2, 2019-20)
1	I. Nath, U. Bhattacharya, and M. Chatterjee , "An efficient heuristic to minimize number of regenerations in translucent optical network under dynamic scenario," in ACM Proc. of the 20th International Conference on Distributed Computing and Networking (ICDCN), 2019, Bangalore, India.
	Conference Publications (CAYm3, 2018-19)
1	S. Paira, M. Chatterjee , S. Khanam, and U. Bhattacharya, "GSWA: A survivable dynamic multicast efficient RWA scheme in WDM mesh Networks," in IEEE Proc. of 9th International Conference on Computing, Communication and Networking Technologies (ICCCNT), 2018, Bangalore, India.

PhD Guidance CAYm1 (2020-21)

Research Guide	Name of the Scholar	Topic of the Research	University & Year of Registration/Awar ded	Status	Year of compl etion
	Abhishek Bandyopadhyay	Design of Resilient All-optical WDM Networks: Survivable Traffic Grooming and Fast Failure Recovery	IIEST, Shibpur 2020(Awarded)	Awarded	2020
Dr. Monish Chatterjee	Ira Nath	Design and Analysis of Resource Constrained Translucent Optical Networks	IIEST, Shibpur 2020(Awarded)	Awarded	2020
	Asima Bhattacharya	Traffic Grooming in WDM Optical Mesh Networks	Jadavpur University, Kolkata 2020 (Awarded)	Awarded	2021
	Sougata Das	Designing Survivable Optical	Maulana Abul Kalam Azad	Registere d in 2017	NA

		Grid Networks	University of		
			Technology		
			(MAKAUT),		
			Kolkata, 2017		
			(Registration)		
		Some Studies on			
Dr. Daharia	Chamin	Feature Selection	Jadavpur		
Dr. Debasis	Shemim	Approaches for	University, Index	Awarded	2020
Chakraborty	Begum	Classification of	No. 21/16/B		
		Microarray Data			

CAYm2 (2019-20)

Research Guide	Name of the Scholar	Topic of the Research	University & Year of Registration/Awarded	Status	Year of completion
-	-	-	-	-	-

CAYm3 (2018-19)

Research Guide	Name of the Scholar	Topic of the Research	University & Year of Registration/Awarded	Status	Year of completion
-	-	-	-	-	-

Ph.D Awarded

Name of the Faculty	Name of the Institute/University	Year
Dr. Sandip Roy	Jadavpur University	2019
Dr. Avishek Banerjee	Jadavpur University	2019
Dr. Anup Kumar Mukhopadhyay	IIT(ISM), Dhanbad	2019
Dr. Abhishek Bandyopadhyay	IIEST, Shibpur	2020
Dr. Rinku Datta Rakshit	NIT Durgapur	2021

5.7.2 Sponsored research (5)

CAYm1(2020-21)

Project Title	Duration	Funding Agency	Amount
-	-	-	-

CAYm2(2019-20)

ſ	Project Title	Duration	Funding Agency	Amount	
	-	-	-	-	

CAYm2(2018-19)

Project Title	Duration Funding Agency Amoun		Amount	
-	-	-	-	

Cumulative Amount(X + Y + Z) = NIL

5.7.3 Development Activities (10)

Product Development:

Amidst the COVID-19 threat, it was extremely important for the institution to maintain a safe, healthy and hygienic environment. This can be achieved in two ways. First, we needed to ensure that those students or employees who have COVID-19 positive syndrome (like high fever) are not allowed to enter Asansol Engineering College campus. Second, those who do not have COVID-19 positive symptoms must use touchless hand sanitizer and wash hands through touch-less smart tap for at least 20 seconds, as suggested by WHO. So the aim was to implement the above two safety measures completely in an automated way, so that college can avoid man-to-man health monitoring. The product Temp Nitizer developed by the CSE department is a positive step in this direction. The device status monitoring also avoids manual observation, as it works under a cloud based alert/ information system. The details of the project and the product developed are given below.

Manpower required (approximately):

Faculty Member: 02 Cloud Expert (Student):02 IoT platform Development (Student):02 Front End (Student):02 Components & Technical Specifications: Components and Technical Specifications need to set up through series of meetings with project-team members. Cost of the project: Rs. 10,000 (Approximately) Time of Completion: 1-2 Weeks

Investigators:

- 1. PI: Dr. Sandip Roy, Dept of CSE
- 2. Co-PI: Mr. Uddalok Sen, Dept of CSE
- 3. Student Coordinator: Mr. Amar Sinha, Roll- 10800117011

Basic Steps or Algorithm of Temp Nitizer:

- Step 01: An employee or a student comes to AEC campus gate, his/her body temperature is measured automatically using a laser based temperature sensor. If temperature is >= 100 degree Fahrenheit, then a warning message will be displayed. The gate will not open and that person will be advised to meet the concerned medical officer. Else if, the person has temperature <= 100 degree Fahrenheit then go to Step 02.</p>
- Step 02: That employee or student moves forward to an automatic, touch-less PIR sensor based hand sanitizer dispenser machine. The person keeps his or her palm to a proper distance from the dispense machine, and a fixed amount of hand sanitizer will be automatically dispensed.
- Step 03: Once sanitizer is dispensed, that person moves his or her hand to a smart touch-less tap/ faucet, which then starts operating. Water will continue to flow for 20 seconds for washing hands.

Step 04: If, the person step 01, step 02 and step 03 executes successfully, microcontroller based boom barrier gate will open automatically and he or she will be allowed to enter into AEC campus.

Features of Temp Nitizer:

1. it's an automated and cloud based verifiable system, i.e., unmanned system.

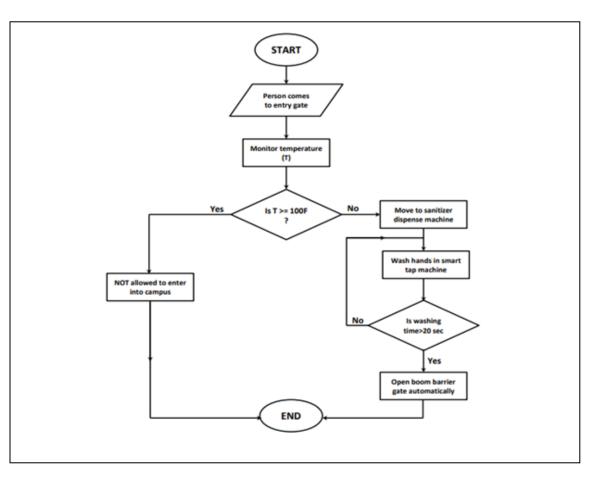
2. If any person skips any process, the next process does not execute. As for example, if a person has ≥ 100 degree Fahrenheit and moves to a hand sanitizer dispenser machine, it will not dispense sanitizer, as it is a wastage only.

3. If a person does not use any hand sanitizer then smart tap must not flow water as it is wastage of water.

4. Boom barrier gate will open, only if all previous steps are executed successfully. As for example, the boom barrier gate refuses to open, if someone does not use sanitizer.



Working models/Charts/Monograms:

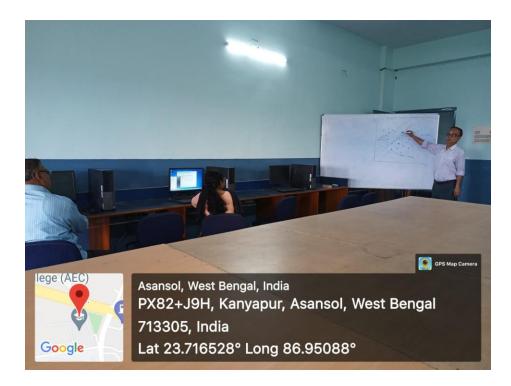


Flowchart

Research and Design Laboratory:

The department has a small research laboratory to help faculty members to carry out their research work during PhD as well as post PhD. The research laboratory is equipped with the following facilities:

- a) Six computers (i3) with tools like MATLAB, CPLEX, Python, JAVA and internet facility.
- b) Editors: Word, LATEX (Overleaf)
- c) Software: GIMP, Microsoft Paint etc.



Research & Development Laboratory Lab

Areas of Research:

Optical Networks, Cryptography, Machine Learning, Pattern Recognition, Bioinformatics, Genetic algorithm and Evolutionary Computing.

Outcomes of R&D Lab

Number of SCI/SCIE/SCOPUS Journal Publications by Faculty Members:

CAY (2021-22) CAYm1 (2020-21)		CAYm2 (2019-20)	CAYm3 (2018-19)	
5	1	8	6	

Number of Conference Publications by Faculty Members

CAY (2021-22)	CAYm1 (2020-21)	CAYm2 (2019-20)	CAYm3 (2018-19)	
1	3	1	1	

PhD produced

CAY (2021-22)	CAYm1 (2020-21)	CAYm2 (2019-20)	CAYm3 (2018-19)
0	3	0	0

Access to **Springer e-books**, published between 2005-2007, **IEEE Journals**, **Science Direct journals**, **National Digital Library** by creating own account through the URL mentioned below to all the systems in the department:

a. www.link.springer.com (http://www.link.springer.com/)

- b. www.sciencedirect.com (http://www.sciencedirect.com/)
- c. www.ndl.iitkgp.ac.in (http://www.ndl.iitkgp.ac.in/)

5.7.4 Consultancy (from Industry) (5)

2020-21 (CAYm1)

Project Title	Duration (Hrs)	Funding Agency	Amount
-	-	-	-

2019-20 (CAYm2)

Project Title	Duration (Hrs)	Funding Agency	Amount
-	-	-	-

2018-19 (CAYm3)

Project Title	Duration (Hrs)	Funding Agency	Amount (INR)
IT Help Desk	400	PMKVY	2,49,900
Attendant			
Junior Software	400	PMKVY	2,55,780
Developer			
Domestic Data Entry	400	PMKVY	2,44,020
Operator			
		Total	7,49,700

Cumulative Amount(X + Y + Z) = 0 + 0 + 7,49,700 = INR 7,49,700

5.8 Faculty Performance Appraisal and Development System (FPADS) (30)

The institute has well defined system of faculty performance appraisal and development system.

Implementation Process:

All faculty members have to prepare and submit self-appraisal reports in a well-defined format annually which include along with the basic information of the faculty members as following:

- a. Involvement in teaching learning process, introduction to innovative methods.
- b. Involvement in research and development activities, its outcome, publications of research articles, etc.
- c. Participation and organizing national and international seminar, symposium, workshop etc.
- d. Participation in faculty development program/ training activities.
- e. Interaction with industry and other institute or universities.
- f. Sharing administrative responsibilities of the institute and department.
- g. Involvement in students extra and co-curricular activities.
- h. Involvement in social and cultural activities.

- The self-appraisal report of each faculty member is evaluated by HOD and based on the recommendation of HOD puts his comments and forwards the same along with a short summary of all information including student feedback to Principal/Director for consideration.
- Principal/Director keeps the record of this recommendation and forward the same to external expert committee by academic council/BOG of the institute for their Observations.
- The expert committee members scrutinize the self-appraisal report of the faculty members and if required may call for interaction with some of the faculty members.
- Finally expert committee members submit their recommendation to Director/Principal. Director/Principal on the basis of these recommendations take action with the approval of BOG.

On the basis of recommendation following actions are taken:

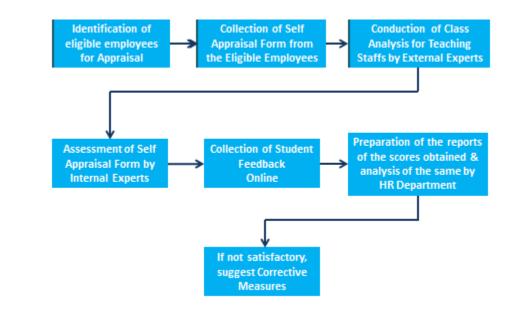
- Performing faculty members are encouraged for their performance by giving certificate of appreciation, identifying the best faculty in the department and in some cases, the best faculty of the institute. Special award is given to the month of the institute.
- Non-performing faculty members are counseled for their betterment by senior faculty members along with HOD. Their performance reconsidered after one semester and improvement is noted.
- For absolute non –performing faculty members warning twice, and if no improvement is noted, action is taken against them.

Effectiveness

As an index of improvement of quality in academic activities in the institute following may be noted:

- Faculty members have either completed or registered for Ph.D and progress in research work is satisfactory.
- Faculty involvement in research and development activities is improving, resulting in more research publications.
- More number of faculty members is participating in seminars.
- Substantial improvements in faculty industry interaction and regular visit to industry and premier institutions.
- Organizing symposium, workshops and seminars have increased.
- Faculty involvement in students co-curricular and extra-curricular activities have substantially improved.
- Faculty involvement in social and cultural activities is continuously improving. The FPADS is implemented regularly and is very effective for improving academic quality of the department as well as institute.

Appraisal Process Flow Chart (Teaching)



Parameters for Assessment

TEACHING STAFFS: Final report contains following details of an employee

- a) Student Result(25)
- b) Mentorship(10)
- c) Administrative Responsibilities(35)
- d) Student Feedback(10)
- e) Head of The Department (HOD)(10)
- f) Head of The Institute (HOI)(10)
- g) Class Analysis (CA)(50)

To encourage faculty members for Publication and Development, a separate desired category for Publication & Development (150) has been incorporated.

• It is desired that teaching staff score more than 70% score in total.

		(1)		
	ACADEMIC F	PER	FORMANCE INDICATORS	
GENE	RAL INFORMATION :			
Name	(in Block Letters)	:		
Colleg	e Name	:		
Depar		-		
-		•		
	of joining ous Experience	Ļ	Teaching:	
Freudo	a Liperience	•	Industry:	
110-01	er acquired any degree or fresh academic	Ļ	Research:	
	cations during the year: (Mention degree name			
and dat	te)			
		L		
SI.	Parameter		Total marks	Marks Obtained
I	Student Result		25	
п	Class Analysis (To be filled by HR Department	()	50	
III IV	Mentorship Administrative Responsibilities		10	
	-			
v	Students Feedback		10	
vi	HOD's Report		10	
VII	Principal's Report		10	
	TOTAL		150	
	1		-1	
Note:	The faculties have to submit all related doc	UM.	ents. All data submitted relate	d to parameter
ццш	&IVhas to be verified and validated by the HOD			
			Signa	ture of the Assesse
	t from the above mentioned informa			
	R&D details in prescribed manner. Th			
and/	or excelling in individual category wil	lЪ	e encouraged with R&D re	eward

Academic Performance Indicators

5.9 Visiting/Adjunct/Emeritus Faculty etc. (10)

Asansol Engineering College has provision of inviting visiting /adjunct and Emeritus faculty.

Procedure: As per decision taken by the Departmental Academic Committee (DAC), the HOD finalizes the list of Visiting/Adjunct faculty and experts from industry for academic development in the department. The list is finally approved by Director / Principal.

The list of such faculty/Industry experts that visited the college over the last three academic years is as follows.

Name of Vis	iting/Ac	ljunct/Emeritus Faculty	Hrs. of	interaction with the	faculty
-		on Institutions y/Organization	CAYm1(2020- 2021)	CAYm2(2019- 2020)	CAYm3(2018- 2019)
Mr. Sougata Das (Adjunct faculty)	M. Tech.	Architect – Development and Security Operations(Dev Secops), IBM India Global Business Solutions, Presently Senior Architect, Cognizant Technology Solutions, India.	26	NA	24
Prof. (Dr.) S.Choudhury (Visiting Faculty)	PhD	Calcutta University	NA	22	26
Prof. (Dr.) N.Chaki (Visiting Faculty)	PhD	Calcutta University	28	30	NA

CRITERION 6

FACILITIES AND TECHNICAL SUPPORT

6. FACILITIES AND TECHNICAL SUPPORT (80)

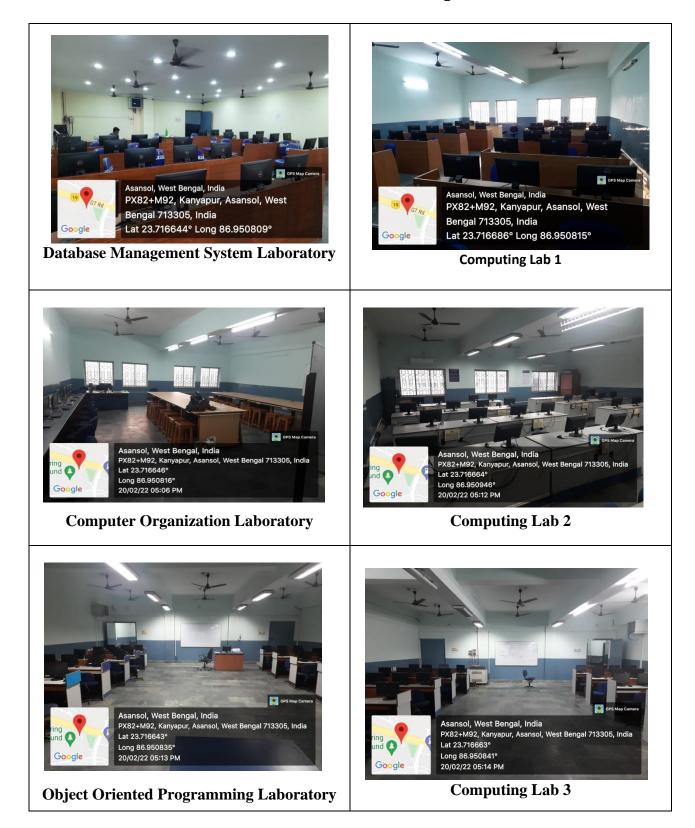
6.1. Adequate and well-equipped laboratories, and technical manpower (30)

		No. of		Weekly	Technical	Manpower	- support
Sr. No	Name of the Laborato ry	students per setup (Batch Size) On Avg.	Name of the Important equipment	utilization status(all the courses for which the lab is utilized)	Name of the technical staff	Designat ion	Qualificat ion
01	AI Lab	30	30 Desktop Computer System: Intel Core i7-10700 @ 2.90 GHz /16GB/1 TB HDD/23.8Inch TFT Monitor, Air Conditioner:2 nos. 1,5ton, Wall mounted (Havells Lloyd), Printer: HP laser, Switch: 48 port Gigabit Ethernet (D'Link)	12hrs	DEBENDR A NATHPAT TANAYAK	SR. TECHNI CAL ASSIST ANT	B.Sc. and "DOEAC C A"Level
02	Networkin g Lab	30	30 Desktop Computer System: Intel Core i7-11700 @ 2.50 GHz/16GB/1 TB HDD/19.5Inch TFT Monitor, Air Conditioner: 2 nos. 1.5ton, Wall mounted (Havells Lloyd), Printer & Scanner: HP laser, Switch: 48 port Gigabit Ethernet (D'Link) UPS: 10KVA	12hrs	SUKHAM AY CHOUDHU RY	TECHNI CAL ASSIST ANT	"DOEAC C A" Level
03	CSE Project Lab	30	30 Desktop Computer System: Intel Core i7-11700 @ 2.50 GHz/16GB/1 TB HDD/19.5Inch TFT Monitor, Air	14hrs	SUMAN MALLICK	SR. TECHNI CAL ASSIST ANT	"DOEAC C A" Level
AEC/C	CSE/NBA – 20)22					196

			Conditioner:2 nos. 2ton,Wall mounted (Havells Lloyd),Printer& Scanner: HP laser, HP Scanjet Scanner, Projector, Screen, Switch: Switch: 48 port Gigabit Ethernet (D'Link)				
04	DBMS Lab	30	30 Desktop Computer System: Intel Core i3 4160 @ 3.60GHz/8GB/500 GB HDD/18.5Inch TFT Monitor, Air Conditioner:2 nos. of 1.5ton each, Wall mounted (Voltas), Printer & Scanner: HP laser, Switch: 2x24 port Ethernet, UPS: 10KVA	12hrs	BABAI UKIL	TECHNI CALAS SISTAN T	B.Sc. and "DOEAC C A"Level
05	Computin g Lab 1	30	34 Desktop Computer System: Core i3 4130/3240 @ 3.60 GHz/8 GB RAM/500GB/18.5In ch TFT Monitor, Air Conditioner:2 nos. of 1.5ton each. Wall mounted(Havells Lloyd), Printer & Scanner: HP LaserJet, Switch: Switch: 24 port Gigabit Ethernet (TP-Link)	12 hrs	AMITAVA ROY	TECHNI CALAS SISTAN T	"DOEAC C A" Level
06	Computer Organizati on Lab	30	Digital trainer kit: 6, Bread board: 5, IC checker, wires, cutter, tweezer, ICs. 10 Desktop Computer System: Intel Core i3 3240 @ 3.40 GHz/ 4GB RAM/500 GB HDD/18.5Inch TFT	8 hrs	RAJAT GHOSH	TECHNI CALAS SISTAN T	"DOEAC C A" Leveland O" Level
AEC/	CSE/NBA – 20)22					197

			Monitor, Mentor Graphics software in 5 Desktop Computer System, Air Conditioner:2 nos 1.5ton each (Voltas),				
			HP laser Printer UPS: 10KVA Penguin				
07	Computin g Lab 2	30	36 Desktop Computer System: Intel Dual Core @ 2.70GHz/4GB/160 GB/15inch TFT Monitor, UPS: 10KVA Liveline, Switch: 24 port Gigabit Ethernet, Air Conditioner:2 nos. 1.5ton each (Voltas)	12 hrs.	SULEKHA GOPE	TECHNI CALAS SISTAN T	"DOEAC C A" Level
08	Object Oriented Programm ing Lab	30	36 Desktop Computer System: Intel Dual Core @ 2.70GHz/4GB/160 GB/15 inch TFT Monitor, Switch: 24 port Gigabit Ethernet (DAX), Air Conditioner:2 nos. 1.5ton each(Voltas), HP laser Printer	12 hrs.	MITRANI MUKHERJ EE	TECHNI CALAS SISTAN T	"DOEAC C A" Level
09	Computin g Lab 3	30	36 Desktop Computer System: Intel Dual Core @ 2.70GHz/4GB/160 GB/15inch TFT Monitor, Switch: 24 port Gigabit Ethernet (TP-Link), UPS: 10KVA Kirloskar, Air Conditioner:2 nos. 1.5 ton each (Voltas), HP laser Printer	10hrs	RAJENDR A NATH PATTANA YAK	TECHNI CALAS SISTAN T	BCA
AEC/O	CSE/NBA – 20	22					198

Some Laboratories of CSE Department



6.2. Additional facilities created for improving the quality of learning experience in laboratories (25)

S r. N o.	Facility Name	Details	Reason(s) for creating facility	Utilization	Areas in which students' are expected to have enhanced learning	Relevance to POs/PSOs
1	Knowledge Gateway	The institute has membership of Elsevier and has lifetime membership of Springer E-books (1125 Titles). Students can access Reports and Journals.	For research and project activities. To know about recent trends in Computer Science and Engineering field.	By Students and faculty members	All engineering subject domains	PO1,PO2, PO3,P O4,PO6,PO7,PO 8,PO9,PO11,PO 12, PSO1,PSO2,PSO 3
2	E-learning	Access to IIT Kharagpur digital library (e- books), NPTEL Videos, Swayam MOOCs	To enhance Teaching & Learning	By Students and faculty members	All engineering subject domains	PO1,PO2, PO3,P O4,PO6,PO7,PO 8,PO9,PO10,PO 12, PSO1,PSO2,PSO 3

6.3. Laboratories: Maintenance and overall ambience (10)

(Self-Explanatory)

Maintenance:

- Regular basis maintenance (AMC) is done by reputed vendors for UPS.
- Software with latest version being updated as and when required.
- Regular basis maintenance (AMC) for air conditioners.
- All departmental machines are connected through Virtual LAN and it is maintained in-house.
- All Servers& Desktop computers are repaired, updated and maintained in-house.
- Regular checkup of equipment is carried out at the end of every semester.
- Breakdown register is maintained in the laboratories.
- As per the requirements minor repairs are carried out by the lab technical staffs.
- Major repairs are outsourced by following the procedure of the institute.

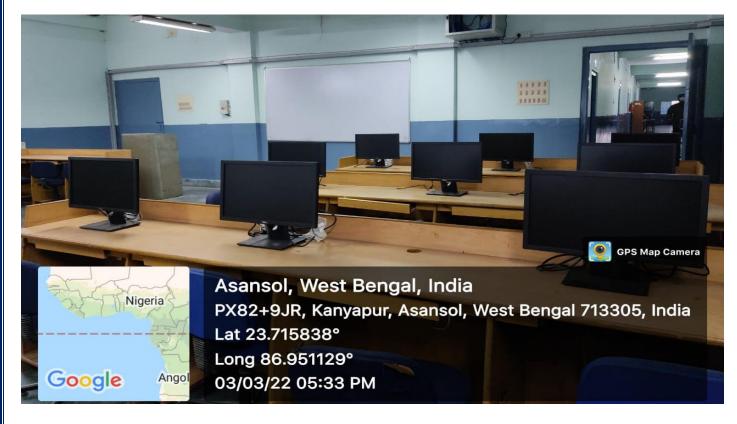
Ambience:

- Department has enough laboratories which are used throughout the year as per the timetable to meet the curriculum requirements.
- Chairs/benches/desks are in good condition. Chairs are provided for individual students in laboratories.
- Laboratories are equipped with sufficient hardware and licensed software to run program specific curriculum and beyond curriculum activities.
- Sufficient laboratory manuals are distributed among the students.
- Sufficient number of windows are available for ventilation and natural light and every laboratory has single entry and exit points (though there is an emergency door as a safety measure).
- Lighting system is very effective, along with the natural light in every corner of the laboratories.
- Emergency light connections available in laboratory in case of power failure.
- Cup-boards are available outside each laboratory for students to place their belongings.
- Each laboratory is equipped with whiteboard, computer with internet connectivity and such other amenities.
- All the laboratory related papers are allotted with laboratory hours every week.

6.4. Project laboratory (5)

(Mention facilities & Utilization)

- > Name of the Laboratory: CSE Project Lab
- > Capacity: 30 users at a time
- > LAN connection: ALL systems are LAN connected at present.
- > Hardware configuration: Intel Core i7 10.700GHz, 16GB RAM, 1TB HDD
- > Software specifications:
- PYTHON 3.9
- JDK
- PHP (front end)
- HTML
- XML
- C++
- JSON(JAVA Script Object Notation)
- JavaScript
- MS Word 97 or later versions.
- Web Browser: Microsoft Internet Explorer, Mozilla, Google Chrome.
- MySQL Server (back-end)
- NS2(Network Simulator 2)
- Operating System: Windows7, LINUX
- Mentors/Project Guide: Each group has assigned mentor/guide who helps to develop theproject.



6.5. Safety measures in laboratories (10)

Sr. No.	Name of the Laboratory	Safety Measures
01.	AI Lab	• For avoiding short circuit each laboratory has separate MCB.
02.	Networking Lab	Earthing Voltage checked on regular basis.Each laboratory has Fire Extinguishers.
03.	CSE Project Lab	All Laboratories are very near to Water reservoir.General Rules of Conduct (Do's and Don'ts)in
04.	DBMS Lab	each and every Laboratory is displayed.Specific Safety Rules for students are being
05.	Computing Lab 1	displayed.First aid box available in the laboratories.
06.	Computer Organization Lab	Well-trained technical supporting staff.Avoiding the use of damaged equipment and
07.	Computing Lab 2	providing needful equipment and components.Periodical servicing of the laboratory equipment.
08.	Object Oriented Programming Lab	Maintain a clean and organized laboratory,Avoiding the use of cell phones.
09.	Computing Lab 3	• Appropriate storage areas.

CRITERION 7 CONTINUOUS IMPROVEMENT

7.1 POs & PSOs Attainment Levels and Actions for improvement – Batch 2016-2020

Actions taken based on the results of evaluation of each of the POs & PSOs (20)

Identify the areas of weaknesses in the program based on the analysis of evaluation of POs & PSOs attainment levels. Measures identified and implemented to improve POs & PSOs attainment levels for the assessment years.

		(CAY	(m2 2019-2020)			
POs Ta	arget Level	Attainment Level	Observations			
PO1: Eng	gineering kr	nowledge: To Apply	the knowledge of mathematics, science, engineering			
fundament	als, and an e	ngineering specializati	ion to the solution of complex engineering problems			
PO1 2.00 2.15 strong foundation of the strong		2.15				
			Target Met			
			DN TAKEN: NIL			
Engineerir	ng problems	•	ate, review research literature, and analyse complex ed conclusions using first principles of mathematics,			
PO2	2.01	2.04	The problem solving and analyzing skills gained through first and second year courses helps the students to apply in real time application.			
			Target Met			
		ACTIC	DN TAKEN: NIL			
	ions for the	-	that meet the specified needs with appropriate safety, and the cultural, societal, and environmental Some of the projects developed by the student as hobby projects/major projects (final year) are not fully considering the social and environmental issues. Target Met			
	•	ACTIO	ON TAKEN: NIL			
methods in	ncluding dest	• • •	problems : Use research-based knowledge and research nalysis and interpretation of data, and synthesis of the			
PO4	1.73	1.76	It is observed that most of the project abstract and literature survey are addressing the research based approach but does not end with valid conclusions. Target Met			
		ACTIO	<u> </u>			
ACTION TAKEN: NIL PO5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.						
PO5	1.76	1.77	It is observed that Up-gradations of tools and resources are necessary to meet the industry standards and research. Target Met			

(CAYm2 2019-2020)

	•		soning informed by the contextual knowledge to asso
professional	-	-	ues and the consequent responsibilities relevant to
PO6	2.14	2.09	Attainment needs to be improved
ACTION TA	KEN: Atta	ainment needs to be ir	nproved. Students are encouraged to provide solution
			ssignments keeping in mind the societal issues, he
issues, cultur	al issues a	nd privacy of individu	als.
		•	nderstand the impact of the professional engineeri
			exts, and demonstrate the knowledge of, and need
sustainable d	levelopmer	nt.	
D07	2.01	0.17	The issues of global and environmental awareness amo
PO7	2.01	2.17	the student are very good. Target Met
			DN TAKEN: NIL
DA0. F41.2	. A		
norms of the			commit to professional ethics and responsibilities a
PO8	1.82	1.80	Attainment needs to be improved
fellow studer practices or l PO9: Indivi	nts and oth nacking. dual and t	er as large. They are g	given more lessons on cyber security to avoid unething effectively as an individual, and as a member or leader
fellow studer practices or l PO9: Indivi in diverse tea	nts and oth nacking. dual and t ams, and ir	er as large. They are g eam work: Function e multidisciplinary sett	
fellow studer practices or l PO9: Indivi in diverse tea PO9 ACTION TA	nts and oth nacking. dual and t ams, and ir 1.81	er as large. They are g eam work: Function e multidisciplinary sett 1.79	given more lessons on cyber security to avoid unething effectively as an individual, and as a member or leader
fellow studer practices or l PO9: Indivi in diverse tea PO9 ACTION TA competition.	nts and oth nacking. dual and t ams, and in 1.81 AKEN: Ass	er as large. They are g eam work: Function e multidisciplinary sett 1.79 signed team-based pro	given more lessons on cyber security to avoid unething effectively as an individual, and as a member or leader ings. Attainment needs to be improved ojects such as technical model making in a technical
fellow studer practices or l PO9: Indivi in diverse tea PO9 ACTION TA competition. PO10: Com	nts and oth nacking. dual and t ams, and ir 1.81 AKEN: Ast municatio	er as large. They are g eam work: Function e multidisciplinary sett 1.79 signed team-based pro	given more lessons on cyber security to avoid unething effectively as an individual, and as a member or leader ings. Attainment needs to be improved ojects such as technical model making in a technical fectively on complex engineering activities with t
fellow studer practices or l PO9: Indivision in diverse tea PO9 ACTION TA competition. PO10: Com engineering	nts and oth nacking. dual and t ams, and in 1.81 KEN: Ass munication community	er as large. They are g eam work: Function e multidisciplinary sett 1.79 signed team-based pro on: Communicate eff y and with society at	given more lessons on cyber security to avoid unething effectively as an individual, and as a member or leaderings. Attainment needs to be improved ojects such as technical model making in a technical ectively on complex engineering activities with the large, such as, being able to comprehend and write large, such as the large is a such as a such as a such as a such as a member of large is a member of
fellow studer practices or l PO9: Indivision in diverse tea PO9 ACTION TA competition. PO10: Com engineering	nts and oth nacking. dual and t ams, and in 1.81 KEN: Ass munication community	er as large. They are g eam work: Function e multidisciplinary sett 1.79 signed team-based pro on: Communicate eff y and with society at	given more lessons on cyber security to avoid unething effectively as an individual, and as a member or leader ings. Attainment needs to be improved ojects such as technical model making in a technic fectively on complex engineering activities with the large, such as, being able to comprehend and wr
fellow studer practices or l PO9: Indivi in diverse tea PO9 ACTION TA competition. PO10: Com engineering effective rep	nts and oth nacking. dual and t ams, and in 1.81 KEN: Ass munication community	er as large. They are g eam work: Function e multidisciplinary sett 1.79 signed team-based pro on: Communicate eff y and with society at	given more lessons on cyber security to avoid unething effectively as an individual, and as a member or leaderings. Attainment needs to be improved ojects such as technical model making in a technic fectively on complex engineering activities with the large, such as, being able to comprehend and wr nake effective presentations, and give and receive clean The communication, presentation and report writing sk are to be further improved among the students.
fellow studer practices or h PO9: Indivi in diverse tea PO9 ACTION TA competition. PO10: Com engineering effective rep- instructions.	nts and oth nacking. dual and t ams, and ir 1.81 AKEN: Ass nmunication community orts and de	er as large. They are g eam work: Function e multidisciplinary sett 1.79 signed team-based pro on: Communicate eff y and with society at esign documentation, m 1.68	given more lessons on cyber security to avoid unething effectively as an individual, and as a member or leaderings. Attainment needs to be improved ojects such as technical model making in a technic fectively on complex engineering activities with the large, such as, being able to comprehend and wr nake effective presentations, and give and receive clear The communication, presentation and report writing sk
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fellow studer practices or h PO9: Indivi in diverse tea PO9 ACTION TA competition. PO10: Com engineering effective rep instructions. PO10 PO11: Proj engineering a in a team, to	nts and oth nacking. dual and t ams, and ir 1.81 KEN: As nonunication community orts and de 1.65 ect mana and manag manage pr	er as large. They are g ream work: Function e multidisciplinary sett 1.79 signed team-based pro on: Communicate eff y and with society at esign documentation, m 1.68 ACTIC gement and finance ement principles and a rojects and in multidisc 1.69	given more lessons on cyber security to avoid unethi effectively as an individual, and as a member or leade ings. Attainment needs to be improved ojects such as technical model making in a technic ectively on complex engineering activities with the large, such as, being able to comprehend and wr nake effective presentations, and give and receive clean The communication, presentation and report writing sk are to be further improved among the students. Target Met DN TAKEN: NIL : Demonstrate knowledge and understanding of the apply these to one's own work, as a member and leade ciplinary environments. Few courses of curriculum give knowledge Management principle and applying managerial principt to his/her work including financial implications and manage the project in multidisciplinary environments.

PO12	1.79	1.80	The pre final year and final year courses of the program are demonstrating the resource for contemporary issues and lifelong learning. Target Met			
		АСТ	TION TAKEN: NIL			
Similar info	Similar information is to be provided for PSOs					
PSO1 : Attain the ability to design efficient algorithms for developing hardware and software-based systems.						
PSO 1	1.84	1.88	The courses of the program are demonstrating the algorithms for developing hardware and software-based systems.			
			Target Met			
		АСТ	TION TAKEN: NIL			
PSO2: App real life pro		software engineerin	ng approach and be able to use modern tools for solving			
PSO 2	1.82	1.93	Usages of different modern tools to, develop or implement, test, and maintain the computer systems for Industrial Equipment and for solving real life problems. Target Met			
		АСТ	TION TAKEN: NIL			
			become successful technocrats and entrepreneurs as well lds of Computer Science and Engineering.			
PSO 3	1.67	1.72	To inculcate ethics, good interpersonal relationships, ability to be entrepreneurs as well as engage in research work in emerging fields of Computer Science and Engineering			
			Target Met			
		ACT	TION TAKEN: NIL			

POs & PSOs Attainment Levels and Actions for improvement – Batch 2015-2019 (CAYm3 2018-2019)

POs	Target Level	Attainment Level	Observations			
	PO1: Engineering knowledge : To Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems					
PO1	2.02	2.09	Computer Science and engineering curriculum requires the strong foundation of theoretical and practical knowledge of engineering subjects, which the students study in their first year that correlates the theoretical concepts with applications. Target Met			
	ACTION TAKEN: NIL					
Engineerii	PO2: Problem analysis : Identify, formulate, review research literature, and analyse complex Engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.					
PO2	1.94	2.01	The problem solving and analyzing skills gained through first and second year courses helps the students to apply in real time application. Target Met			
	ACTION TAKEN: NIL					

1	sign/develoj	pment of solutio	ons: Design solutions for complex engineering problems an
•	-	-	s that meet the specified needs with appropriate consideration
for the pub	olic health a	and safety, and the	e cultural, societal, and environmental considerations.
PO3	2.03	2.07	Some of the projects developed by the student as hold projects/major projects (final year) are not fully considering to social and environmental issues.
			Target Met
			ACTION TAKEN: NIL
PO4 · Cor	nduct inves	tigations of com	pplex problems : Use research-based knowledge and research
		U	ents, analysis and interpretation of data, and synthesis of the
	-	e valid conclusion	
			It is observed that most of the project abstract and literatu
PO4	1.67	1.73	survey are addressing the research based approach but does n end with valid conclusions.
			Target Met
			ACTION TAKEN: NIL
			lect, and apply appropriate techniques, resources, and moder
-	-		ediction and modelling to complex engineering activities wi
an underst	anding of th	ne limitations.	
			It is observed that Up-gradations of tools and resources a
PO5	1.72	1.76	necessary to meet the industry standards and research.
			Target Met
			ACTION TAKEN: NIL
societal, h	ealth, safet	y, legal and cult	
societal, h	ealth, safet		ural issues and the consequent responsibilities relevant to the
societal, h	ealth, safet	y, legal and cult	The courses of Computer Science and Engineering a addressing the needs of, health, safety and social concer regarding engineering practices in real life.
societal, h profession	ealth, safet al engineer	y, legal and cultuing practice.	The courses of Computer Science and Engineering a addressing the needs of, health, safety and social concer regarding engineering practices in real life. Target Met
societal, h profession PO6	ealth, safet al engineer 1.95	y, legal and culturing practice.	The courses of Computer Science and Engineering a addressing the needs of, health, safety and social concer regarding engineering practices in real life. Target Met ACTION TAKEN: NIL
societal, h profession PO6 PO7: Env	ealth, safet al engineer 1.95 vironment	y, legal and cultuing practice. 2.14 and sustainabil	The courses of Computer Science and Engineering a addressing the needs of, health, safety and social concerregarding engineering practices in real life. Target Met ACTION TAKEN: NIL lity: Understand the impact of the professional engineering
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societal, h profession PO6 PO7: Env solutions	ealth, safet al engineeri 1.95 vironment in societal a e developme	y, legal and culturing practice. 2.14 and sustainabil and environments ent.	The courses of Computer Science and Engineering a addressing the needs of, health, safety and social concerregarding engineering practices in real life. Target Met ACTION TAKEN: NIL lity : Understand the impact of the professional engineering al contexts, and demonstrate the knowledge of, and need for the issues of global and environmental awareness among the text of the professional engineering and the impact of the professional engineering and the professional enging and the professi
societal, h profession PO6 PO7: En solutions	ealth, safet al engineeri 1.95 vironment in societal a	y, legal and culturing practice. 2.14 and sustainabil	The courses of Computer Science and Engineering a addressing the needs of, health, safety and social concerregarding engineering practices in real life. ACTION TAKEN: NIL lity: Understand the impact of the professional engineering al contexts, and demonstrate the knowledge of, and need for the issues of global and environmental awareness among the student are very good.
PO6 PO7: Envisor	ealth, safet al engineeri 1.95 vironment in societal a e developme	y, legal and culturing practice. 2.14 and sustainabil and environments ent.	The courses of Computer Science and Engineering a addressing the needs of, health, safety and social concerregarding engineering practices in real life. Target Met ACTION TAKEN: NIL Ity: Understand the impact of the professional engineerir al contexts, and demonstrate the knowledge of, and need for the issues of global and environmental awareness among t student are very good. Target Met
societal, h profession PO6 PO7: Env solutions	ealth, safet al engineeri 1.95 vironment in societal a e developme	y, legal and culturing practice. 2.14 and sustainabil and environments ent.	The courses of Computer Science and Engineering a addressing the needs of, health, safety and social concerregarding engineering practices in real life. ACTION TAKEN: NIL lity: Understand the impact of the professional engineering al contexts, and demonstrate the knowledge of, and need for the issues of global and environmental awareness among the student are very good.
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societal, h profession PO6 PO7: Env solutions i sustainable PO7 PO8: Eth norms of t PO8 PO9: Ind	<pre>iealth, safet; al engineeri 1.95 vironment in societal a e developme 1.87 iics: Apply he engineer 1.7 ividual and</pre>	y, legal and culturing practice. 2.14 and sustainabil and environmenta ent. 2.01 ethical principle ing practice. 1.82 I team work: Fu	The courses of Computer Science and Engineering a addressing the needs of, health, safety and social concer regarding engineering practices in real life. Target Met ACTION TAKEN: NIL lity: Understand the impact of the professional engineering al contexts, and demonstrate the knowledge of, and need for The issues of global and environmental awareness among t student are very good. Target Met ACTION TAKEN: NIL es and commit to professional ethics and responsibilities ar The students are doing better in improving the overall experti in field of engineering and also in ethical moral knowledge. Target Met ACTION TAKEN: NIL nction effectively as an individual, and as a member or lead
societal, h profession PO6 PO7: Env solutions i sustainable PO7 PO8: Eth norms of t PO8 PO9: Ind	<pre>iealth, safet; al engineeri 1.95 vironment in societal a e developme 1.87 iics: Apply he engineer 1.7 ividual and</pre>	y, legal and culturing practice. 2.14 and sustainabil and environments ent. 2.01 ethical principle ing practice. 1.82	The courses of Computer Science and Engineering a addressing the needs of, health, safety and social concer regarding engineering practices in real life. Target Met ACTION TAKEN: NIL lity : Understand the impact of the professional engineerir al contexts, and demonstrate the knowledge of, and need for The issues of global and environmental awareness among t student are very good. Target Met ACTION TAKEN: NIL s and commit to professional ethics and responsibilities ar The students are doing better in improving the overall experti in field of engineering and also in ethical moral knowledge. Target Met ACTION TAKEN: NIL nction effectively as an individual, and as a member or lead ary settings.
societal, h profession PO6 PO7: Env solutions i sustainable PO7 PO8: Eth norms of t PO8 PO9: Ind	<pre>iealth, safet; al engineeri 1.95 vironment in societal a e developme 1.87 iics: Apply he engineer 1.7 ividual and</pre>	y, legal and culturing practice. 2.14 and sustainabil and environmenta ent. 2.01 ethical principle ing practice. 1.82 I team work: Fu	Target Met ACTION TAKEN: NIL lity: Understand the impact of the professional engineering al contexts, and demonstrate the knowledge of, and need for The issues of global and environmental awareness among the student are very good. Target Met ACTION TAKEN: NIL es and commit to professional ethics and responsibilities and The students are doing better in improving the overall expertiin field of engineering and also in ethical moral knowledge. Target Met ACTION TAKEN: NIL nction effectively as an individual, and as a member or leader

ACTION TAKEN: NIL

PO10: Communicat	ion: Communicate effectively on complex engineering activities with the
engineering commun	ity and with society at large, such as, being able to comprehend and write
effective reports and	design documentation, make effective presentations, and give and receive clear
instructions.	
	The communication, presentation and report writing skills are to be

PO10	1.62	1.65	further improved among the students. Target Met
			ACTION TAKEN: NIL
PO11: P	roject man	agement and	d finance: Demonstrate knowledge and understanding of the
engineerin	ig and mana	agement princ	iples and apply these to one's own work, as a member and leader
in a team,	to manage	projects and ir	n multidisciplinary environments.

PO11	1.61	1.62	Few courses of curriculum give knowledge of Management principle and applying managerial principles to his/her work including financial implications and to manage the project in multidisciplinary environments.
			Target Met ACTION TAKEN: NIL

PO12: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life- long learning in the broadest context of technological change.

PO12	1.77	1.79	The pre final year and final year courses of the program are demonstrating the resource for contemporary issues and lifelong learning.
			Target Met

ACTION TAKEN: Attainment needs to be improved. To reach the target level, students are motivated to study relevant literature, so as to prepare themselves for planning, design, development and implementation of projects.

Students are advised to attend seminar in advanced technological areas which helps in life-long learning.

Similar information is to be provided for PSOs

PSO1: Attain the ability to design efficient algorithms for developing hardware and softwarebased systems.

ACTION TAKEN: Attainment needs to be improved. To reach the target level, more emphasis is given to additional classes for some core Computer Science subjects like Design and Analysis of Algorithms and Computer Organization & Architecture, Data structure so that doubts are cleared to the extent possible.

PSO2: Apply standard software engineering approach and be able to use modern tools for solving real life problems.

	problems.
ACTION	Target Met

PSO3: Apply the acquired proficiency to become successful technocrats and entrepreneurs as well as engage in research work in emerging fields of Computer Science and Engineering.

PSO 3	1.65	1.67	relationships, ability to be entrepreneurs as well as engage in research work in emerging fields of Computer Science and Engineering Target Met
			To inculcate ethics, good interpersonal

POs & PSOs Attainment Levels and Actions for improvement – Batch 2014-2018 (CAYm4 2017-2018)

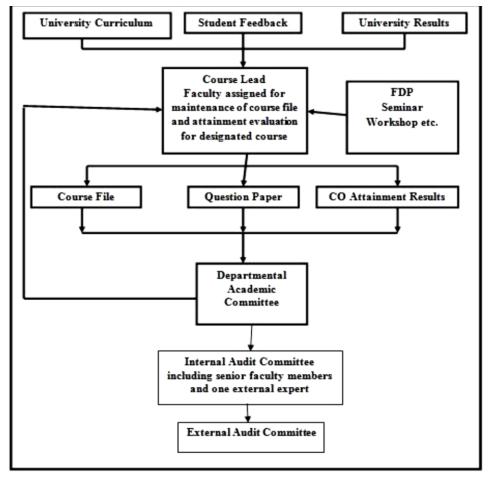
		Attainment			
POs	Target Level	Level	Observations		
PO1: E	ngineering k	nowledge: To Ap	ply the knowledge of mathematics, science, engineering		
fundame	entals, and an e	engineering special	ization to the solution of complex engineering problems		
PO1	1.83	2.02	Computer Science and engineering curriculum requires the strong foundation of theoretical and practical knowledge of engineering subjects, which the students study in their first year that correlates the theoretical concepts with applications. Target Met		
		A	CTION TAKEN: NIL		
Enginee	ring problems	•	mulate, review research literature, and analyse complex tiated conclusions using first principles of mathematics, s. The problem solving and analyzing skills gained through first		
· · · · ·		1.94			
			Target Met		
		A	CTION TAKEN: NIL		
design s	ystem compon	ents or processes th	: Design solutions for complex engineering problems and hat meet the specified needs with appropriate considerations ultural, societal, and environmental considerations.		
PO3	1.84	2.03	Some of the projects developed by the student as hobby projects/major projects (final year) are not fully considering the social and environmental issues.		
ļ			Target Met		
methods	s including des	-	ex problems : Use research-based knowledge and research s, analysis and interpretation of data, and synthesis of the		
PO4	It is observed that most of the project abstract survey are addressing the research based approach				
 			Target Met		
DOS. N	Indown tool		CTION TAKEN: NIL		
enginee		ols including predie	t, and apply appropriate techniques, resources, and modern ction and modelling to complex engineering activities with		
PO5	1.32	1.72	It is observed that Up-gradations of tools and resources are necessary to meet the industry standards and research.		
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P06 1.64 1.95 addressing the needs of, health, safety and social concer regarding engineering practices in real life. Target Met P07 1.53 Control TAKEN: NIL P07 1.53 1.78 The issues of global and environmental awareness among t stuatanable development. P07 1.53 1.78 The issues of global and environmental awareness among t student are very good. P08 1.33 1.78 The students are doing better in improving the overall expert in field of engineering and also in ethical moral knowledge P08 1.33 1.7 The students are doing better in improving the overall expert in field of engineering and also in ethical moral knowledge P09 1.37 1.81 The students are able to work as individual as well as in team. P09 1.37 1.81 The students are able to work as individual as well as in team. P09 1.37 1.81 The students are able to work as individual as well as in team. P09 1.37 1.81 The students are able to work as individual as well as in team. P09 1.37 1.81 The students are able to work as individual as well as in team. P010 1.25 1.62 The communication, presentation and report writing skills are to further improve among				Target Met	
PO6: The engineer and society: Apply reasoning informed by the contextual knowledge to asse societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice. PO6 1.64 1.95 The courses of Computer Science and Engineering a addressing the needs of, health, safety and social concer regarding engineering practices in real life. Target Met ACTION TAKEN: NIL PO7: Environment and sustainability: Understand the impact of the professional engineering satianable development. PO7 PO7 1.53 The issues of global and environmental awareness among t student are very good. Or Target Met ACTION TAKEN: NIL PO8 PO8 1.33 The students are doing better in improving the overall expert in field of engineering and also in chical moral knowledge. Target Met ACTION TAKEN: NIL PO9 1.33 1.7 The students are able to work as individual as member or lead in diverse teams, and in multidisciplinary settings. PO9 1.31 The students				ACTION TAKEN: NIL	
Professional engineering practice. PO6 1.64 1.95 The courses of Computer Science and Engineering an addressing the needs of, health, safety and social concer regarding engineering practices in real life. Target Met ACTION TAKEN: NIL PO7 1.53 1.78 The issues of global and environmental awareness among t student are very good. Target Met ACTION TAKEN: NIL PO7 1.53 1.78 The issues of global and environmental awareness among t student are very good. Target Met ACTION TAKEN: NIL PO8 1.33 1.7 The students are doing better in improving the overall expert in field of engineering and also in ethical moral knowledge. Target Met ACTION TAKEN: NIL PO8 1.33 1.7 The students are able to work as individual as a member or lead in diverse teams, and in multidisciplinary settings. PO9 1.37 1.81 The students are able to work as individual as well as in team. Target Met ACTION TAKEN: NIL PO101 1.32 1.62 The students are able to work as individual	PO6: T	he engineer a	and society: Ap		
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PO12 1.40 1.77 demonstrating the resource for contemporary issues and lifelout learning. Target Met	PO11 PO12: I	n, to manage j 1.33 Life-long lear	agement principl projects and in m 1.61 ming: Recognize	es and apply these to one's own work, as a member and lead aultidisciplinary environments. Few courses of curriculum give knowledge of Management princip and applying managerial principles to his/her work includi financial implications and to manage the project in multidisciplina environments. Target Met ACTION TAKEN: NIL e the need for, and have the preparation and ability to engage	
Target Met	PO11 PO12: I	n, to manage j 1.33 Life-long lear	agement principl projects and in m 1.61 ming: Recognize	es and apply these to one's own work, as a member and lead ultidisciplinary environments. Few courses of curriculum give knowledge of Management princip and applying managerial principles to his/her work includi financial implications and to manage the project in multidisciplina environments. Target Met ACTION TAKEN: NIL e the need for, and have the preparation and ability to engage the broadest context of technological change.	
	PO11 PO12: I independ	1.33	agement principl projects and in m 1.61 ming: Recognize long learning in	es and apply these to one's own work, as a member and lead ultidisciplinary environments. Few courses of curriculum give knowledge of Management princip and applying managerial principles to his/her work includir financial implications and to manage the project in multidisciplina environments. Target Met ACTION TAKEN: NIL e the need for, and have the preparation and ability to engage the the broadest context of technological change. The pre final year and final year courses of the program a demonstrating the resource for contemporary issues and lifelor	
	PO11 PO12: I independ	1.33	agement principl projects and in m 1.61 ming: Recognize long learning in	es and apply these to one's own work, as a member and lead ultidisciplinary environments. Few courses of curriculum give knowledge of Management princip and applying managerial principles to his/her work includin financial implications and to manage the project in multidisciplina environments. Target Met ACTION TAKEN: NIL e the need for, and have the preparation and ability to engage is the broadest context of technological change. The pre final year and final year courses of the program a demonstrating the resource for contemporary issues and lifelor learning.	

		ACTION	TAKEN: NIL				
Similar inf	formation is to l	be provided for PSC					
PSO1: Att	ain the ability	to design efficient a	lgorithms for developing hardware and software-				
based syste	ems.						
PSO 1	1.51	1.81	The courses of the program are demonstrating the algorithms for developing hardware and software-based systems. Target Met				
ACTION TAKEN: NIL							
PSO2: Appreal life pro		tware engineering ap	pproach and be able to use modern tools for solving				
PSO 2	1.52	1.81	Usage of different modern tools to , develop/ implement, test, and maintain the computer systems for Industrial Equipment or for solving real life problems.				
			Target Met				
			TAKEN: NIL				
	• •		e successful technocrats and entrepreneurs as well as omputer Science and Engineering.				
PSO 3	1.321.65To inculcate ethics, good interperse relationships, ability to be entrepreneurs as well engage in research work in emerging fields Computer Science and Engineering Target Met						
		ACTION	TAKEN: NIL				

7.2 Academic Audit and actions taken thereof during the period of Assessment (10)

Academic audit and actions taken are carried out with the help of different components:



Process of Academic Audit

- Course Coordinator/Lead takes feedback from different sources like University Curriculum (for detail syllabus of the course, course outcomes with lecture details), Students Feedback and from University Results (for the calculation of attainment level).
- He also arranged faculty development Program (FDP) for that particular course where faculty can go for that particular subject's FDP or seminar or workshops.
- After assigning the particular faculty member for that particular course, he/she should prepare course file, question papers and attainment level calculations for that particular course.
- The course files and question papers (class test along with assignments) so prepared were reviewed by Departmental Academic Committee (DAC).
- The attainment calculations for that Course Outcomes are reviewed by Departmental Academic Committee (DAC) and put their valuable suggestions also for that course.
- Departmental academic committee is also there to look after of the regular classes, visits laboratories observation and put valuable feedback about that particular course.
- Finally, all the reports from different sections are collectively give one feedback about the course taken by that particular faculty and accordingly actions can be taken by department.
- An academic committee comprising of on external expert has been formed by Departmental Academic Committee (DAC) to check the departmental documents and put a report to department.

- Individual department forward the department academic report to Principal.
- Principal forms an external academic committee to check all the department academic committee reports and submit the consolidated report.

1 Course file evaluation

Course files are prepared by faculty members before the semester starts. Course file contents are as per recommendations mentioned in below table. The academic committee consisting of HOD, course coordinator and few of departmental senior faculty members performs audit of course files i.e., verify the contents of the course file, lesson plan, assignments, extra material lecture notes, etc. The comments of the committee are given as feedback to the faculty member to include the recommended material. This audit ensures the quality deliverables to the students.

Asansol Engineering College,713305 Department of Computer science &Engineering Departmental Audit

SI.	Check List for Evaluation of Cours Item				Academic Year				
51. No.	Item			16-17	AC 17-18	18-19	19-20	10	
1.	Vision & Mission (Institute)								
2.	Vision & Mission (Dept.)				7				
3.	PEO, PO & PSO								
4.	Academic Calendar					V			
5.	Time table (Dept. & Individual)					Ń			
6.	Syllabus								
7.	Academic Course Description								
7.1	Course Outcome			Ī		1			
7.2	Mapping of COs and PO/PSO					V			
7.3	Lecture Plan					V			
7.4	Session Plan					V		3.0	
7.5	Course Completion Details					Ń		8	
8.	Study Material				•				
8.1	Course Content/Lecture Notes					1			
8.2	Multiple Choice Question					1			
8.3	Sample Question papers (CO wise, High, I	Medium	,Low)						
8.4	University Question papers						S		
9.	Internal Evaluation Documents						0.5		
9.1	Class Test Question Paper	CT-	1			V		Г	
	~ 1	CT-2				V			
9.2	Sample Class Test Answer Script	~	Best						
		CT-1	Average						
	5	0	Poor						
		2	Best						
		CT-2	Average						
			Poor					6.8	
9.3	Assignment Question Paper	Paper Assignment-I				\checkmark			
		Assi	gnment-2			\checkmark			
9.4	Sample Assignment Answer Script	Ţ.	Best						
		Assig-1	Average						
			Poor						
		Assig-2	Best	1				1	
			Average					Ī	
			Poor					1	
10.	Assessment & Remedial Measures	-							
10.1	Internal & End Sem Exam. Results					1		T	
10.2	CO attainment Record & Analysis					V			
2000-01/240.4	ure (Any other Relevant Information)			1. Blooms Taxonomy					
							stitutes of	f Repute	
				3. Im	portant U	Jniv. Not	tices etc		
	Depart	mental	Quality Cell						
	Departmental Quality Cen								

Check List for Evaluation of Course File (Theory)

Sl. No.	Contents of Course File					
	Theory	Labs				
1	Session plan	Laboratory Manual				
2	Lecture plan	List of Laboratory Experiments				
3	Question papers of class test	Reports of Laboratory Experiments				
4	Assignment question	Other relevant materials				
5	Answer scripts of class tests					
6	Assignment's report and other relevant materials					
7	Project Reports					
8	Report of Design Projects					

2 Lectures/ Lab evaluation

The academic committee during their random observation of the lectures/lab check delivery of course material as per the lesson plan, teaching aids used, communication skill and classroom management etc. parameters to ensure the teaching methods of benchmarked standards are being used throughout the institute. Feedback is communicated to the faculty member. The academic committee for observation consists of HOD, and few senior faculty members.

3 Faculty development program (FDP)

A faculty member has to undergo faculty development program. The FDP to improve the communication skills and to improve the methods of teaching-learning are carried out at the institute level itself by the learning and development team. The technical component in the teaching is improvised with the help of faculty members attending workshops, expert lectures etc. either organized at our institute or at another institute.

4 Review

Review of the faculty member is taken at the end of the semester again to compare the levels what was at the beginning and after the various feedbacks and training received.

Action taken by the faculty members

- Faculty members incorporate changes suggested by the academic committee, if any gaps are found, to ensure quality deliverables.
- Faculty members have to match the pace of their deliverables as per the students' requirements as well as they have to schedule the lecture plans in such a way that the syllabus is completed on time. To achieve this they can arrange extra lectures and cope-up the syllabus.
- Regular analysis of the results of internal assessment examination of all subjects is done and concerned faculties are guided to take necessary actions. Remedial classes are scheduled in reference to academic progress of the student.
- Faculty members attend FDP as required for the overall development of teaching skills in terms of communication, methods and technical.
- The academic audit is carried out at the beginning of the semester as soon as the faculty members are ready with their course files.
- The academic observation is carried out considering two criteria feedback from students (requested to the authorities) and randomized observation.
- FDP for communication skill development and improving methods of teaching-learning are being carried out regularly by the learning and development department.
- Technical FDP, expert lectures, seminars etc. are being arranged by the individual departments at least once in a semester.

7.3 Improvement in Placement, Higher Studies and Entrepreneurship (10)

Assessment is based on improvement in:

- Placement: number, quality placement, core industry, pay packages etc.
- Higher studies: performance in GATE, GRE, GMAT, CAT etc., and admissions in premier institutions
- Entrepreneurs

Table 7.3							
Academic Performance	LYG (2020- 21)	LYGm1(2019- 20)	LYGm2(2018- 19)				
Total No. of Final Year Students (N)	134	131	134				
No. of students placed in companies or Government Sector (x)	112	111	110				
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT etc.) (y)	6	6	7				
No. of students turned entrepreneur in engineering/technology (z)	2	0	0				
$\mathbf{x} + \mathbf{y} + \mathbf{z} =$	120	117	117				
Placement Index: $(x + y + z)/N$	0.89	0.89	0.87				
Average placement= $(P1 + P2 + P3)/3$		0.88					

7.4 Improvement in the quality of students admitted to the program (10)

Assessment is based on improvement in terms of ranks/score in qualifying state level/national level entrances tests, percentage marks in Physics, Chemistry and Mathematics in 12th Standard and percentage marks of the lateral entry students.

It	Item		CAYm1 (2020- 21)	CAYm2(2019- 20)
National Level Entrance	No of students admitted	26	28	10
Examination	Opening Score/Rank	145420	144390	97442
AIEEE/JEE Main	Closing Score/Rank	795804	974185	1091548
State/ University/ Level Entrance	No of students admitted	163	157	114
Examination/	Opening Score/Rank	4820	3658	7017
Others WBJEE	Closing Score/Rank	64789	71462	80264
Name of the Entrance	No of students admitted	15	12	12
Examination for	Opening Score/Rank	531	5383	1051
Lateral Entry or lateral entry details JELET	Closing Score/Rank	8871	6164	5880
Average CBSE/Any other board result of admitted students (Physics, Chemistry& Mathematics)		73.12	71.1	69.73

Table 7.4

CRITERION 8

First Year Academics

50

1. FIRST YEAR ACADEMICS (50)

Please provide First year faculty information considering load for the particular program

Name of Faculty Member	PAN No	Qualification	Date of Receiving Highest Degree	Area of Specializatio n	Designation	Date of Joining	CAY	CAY m1	CAY m2	Curre ntly Associ ated (Yes/N o)	Nature of Associatio n (Regular / Contract)	Date of Leaving (in case Currently Associated is 'No,)
ASIT GUPTA	AKAPG4604L	M.Sc. and PhD	01-12-1998	Physics	Professor	17.08.2006	100	100	100	Yes	Regular	
ANIMESH UPADHYAY	AALPU3559R	M.Sc. and PhD	13-02-2006	Mathematics	Professor	15.09.1998	100	100	100	Yes	Regular	
ARNAB BANDYOPADHYAY	AQPPB1030J	M.Sc. and PhD	09-03-2015	Mathematics	Professor	30.09.2008	100	100	100	Yes	Regular	
GOURISANKAR PANDA	AKZPP8111C	M.Sc. and PhD	08-11-2003	Chemistry	Professor	01.03.2004	100	100	100	Yes	Regular	
SANDIP HALDAR	ABBPH2871A	M.Sc. and PhD	09-07-2003	Physics	Professor	01.09.2000	100	100	100	Yes	Regular	
AVIK DE	BAVPD5513R	M.Sc. and PhD	27-03-2019	Chemistry	Associate Professor	01.08.2011	100	100	100	Yes	Regular	
KRISHNENDU KUMAR POBI	AVXPP1006H	M.Sc. and PhD	05-12-2019	Chemistry	Associate Professor	28.08.2008	100	100	100	Yes	Regular	
MITHU DEY SARKAR	AKBPD3464C	M.Sc. and PhD	31-01-2020	Mathematics	Associate Professor	01.03.2007	100	100	100	Yes	Regular	
PINAKI RANJAN DUARI	BRIPD4090F	M.Sc. and PhD	10-11-2016	Mathematics	Associate Professor	21.08.2014	100	100	100	Yes	Regular	
RANJITA SINHA	BJJPS4165F	M.Sc. and PhD	24-02-2020	Physics	Associate Professor	14.02.2008	100	100	100	Yes	Regular	
SAMIR DEY	AITPD4870C	M.Sc. and PhD	22-09-2016	Mathematics	Associate Professor	01.08.2005	100	100	100	Yes	Regular	
SUDHANGSHU CHAKRABORTY	AMSPC4167E	M.Sc. and PhD	01-05-2015	Physics	Associate Professor	16.03.2010	100	100	100	Yes	Regular	
ABHIJIT DEBNATH	AJBPD2741D	M.Sc	24-12-2004	Mathematics	Assistant Professor	25.09.2008	100	100	100	Yes	Regular	
AMARTYA ROY	ASOPR8454K	M.Tech	01-07-2016	Electrical Engineering	Assistant Professor	17.01.2017	100	100	100	Yes	Regular	
BIDISHA BANERJEE	AZUPB9196K	MA	30-09-2009	Humanities	Assistant Professor	09.09.2010	100	100	100	Yes	Regular	
BISWAJIT MAITY	AJNPM1331N	MBA	26-02-1999	Management	Assistant Professor	14.12.2012	100	100	100	Yes	Regular	
DEBJANI CHATERJEE	AKHPC0478K	MA	31-10-2013	Humanities	Assistant Professor	01.04.2008	100	100	100	Yes	Regular	
HARSHA KUNDU	AUBPD0957E	MBA	26-05-2012	Management	Assistant Professor	05.08.2015	100	100	100	Yes	Regular	
HIRAK GUPTA	ALZPG5920D	MA	09-01-2007	Humanities	Assistant Professor	23.07.2007	100	100	100	Yes	Regular	
JOYSHREE MAJI	BBMPM8902M	M.Sc	09-09-2009	Physics	Assistant Professor	01.08.2011	100	100	100	Yes	Regular	
KAUSOMBI CHOUDHURY	ARHPC8869R	MBA	30-08-2012	Management	Assistant Professor	10.07.2017	100	100	100	Yes	Regular	
MD. HAYAT ALI	DBVPA2322A	MA	26-05-2018	Humanities	Assistant Professor	05.01.2021	100	-	-	Yes	Regular	
MUN MAJUMDER	AYFPM7031G	M.Sc	07-07-2008	Chemistry	Assistant Professor	02.02.2009	100	100	100	Yes	Regular	
PARTHA MUKHOPADHYAY	APAPM6010R	M.Sc	26-11-1996	Mathematics	Assistant Professor	16.01.2005	100	100	100	Yes	Regular	

PIYUSH RAJ	ANIPR2127G	M.Tech	26-02-2014	Mechanical Engineering	Assistant Professor	05.01.2021	100	-	-	Yes	Regular
PRIYANKA KANJILAL	AZBPK3141Q	MBA	08-03-2011	Management	Assistant Professor	30.07.2015	100	100	100	Yes	Regular
ROBIN KUMAR AGARWAL	AWSPA6541Q	MBA	09-07-2010	Management	Assistant Professor	16.08.2010	100	100	100	Yes	Regular
SAMIRAN GUPTA	AMUPG1579Q	M.Tech	12-06-2013	Computer Science and Engineering	Assistant Professor	02.01.2018	100	100	100	Yes	Regular
SANDIP KARMAKAR	BPEPK9918M	CMA & MBA	21-08-2016	Management	Assistant Professor	08.03.2021	100	-	-	Yes	Regular
SANDIP KUMAR	BLIPK1849M	M.Tech	20-07-2013	Mechanical Engineering	Assistant Professor	05.01.2021	100	-	-	Yes	Regular
SANTANU BERA	ALMPB0705G	MBA	03-03-2006	Management	Assistant Professor	02.08.2007	100	100	100	Yes	Regular
SATYENDRA KUMAR SRIVASTAVA	AYOPS3222Q	M.Tech	05-08-2010	Computer Science and Engineering	Assistant Professor	02.01.2018	100	100	100	Yes	Regular
SUJOY DAS MAHAPATRA	ARQPM0342J	M.E/M.Tech	21-07-2011	Computer Science and Engineering	Assistant Professor	04.09.2006	100	100	100	Yes	Regular
SULOGNA NAYAK	AHSPN2217R	MA	30-09-2009	Humanities	Assistant Professor	14.08.2008	100	100	100	Yes	Regular
TAMAL SAHU	JIVPS1859H	MA	02-09-2019	Humanities	Assistant Professor	05.01.2021	100	-	-	Yes	Regular
SUDIP BASU	AYAPB7885N	MBA	20-06-2012	Humanities	Assistant Professor	17.01.2022	-	-	-	Yes	Regular

8.1 First Year Student-Faculty Ratio (FYSFR) (5)

	Table 8.1.1. FYSFR							
Year	Number of students (approved intake strength)	Number of faculty members (considering fractional load)	FYSFR	*Assessment = (5 ×20)/ FYSFR (Limited to Max. 5)				
2019- 20(CAYm2)	690	35	19.71	5				
2020- 21(CAYm1)	690	35	19.71	5				
2021-22(CAY)	690	35	19.71	5				
Average	690	35	19.71	5				

Data for first year courses to calculate the FYSFR:

*Note: If FYSFR is greater than 25, then assessment equal to zero.

8.2 Qualification of Faculty Teaching First Year Common Courses (5)

	Table 8.2.1: Average Assessment of Faculty Qualification								
Year	x	Y	RF	Assessment of faculty qualification $(5x + 3y)/RF$					
2019-20	09	26	34	3.62					
2020-21	12	23	34	3.79					
2021-22	12	23	34	3.79					
	Average	e Assessment		3.73					
$\mathbf{x} = \mathbf{Number of}$	x = Number of Regular Faculty with PhD								
	y = Number of Regular Faculty with Post-Graduate Qualification								
RF = Number c	of Faculty member	rs required as per S	FR						

8.3 First Year Academic Performance (10)

Table 8.3.1: First Year API							
Academic Performance	2020-21 (CAYm1)	2019-20 (CAYm2)	2018-19 (CAYm3)				
Mean of CGPA or mean percentage of all successful students*(X)	9.48	8.66	7.31				
Total Number of successful students(Y)	183	124	120				
Total Number of students appeared in the examination(Z)	183	124	124				
API [X*(Y/Z)]	9.48	8.66	7.07				
Average API	8.40						
*Note: Successful Students means who are permitted to proceed to the second year							

8.4 Attainment of Course Outcomes of first year courses (10)

8.4.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcomes of first year is done (5)

The Course Outcome (CO) Assessment and Data Acquisition process is prescribed in the following paragraphs.

Course Outcome Assessment Process

The CO assessment tools are used to measure the attainment levels of 1st year courses includes-

- 1. Student's performance in internal assessments such as class test, assignments, continuous evaluation in laboratory through rubrics etc. and
- 2. Student's performance in semester examination conducted by university.

All the 1st year courses prescribed by the university for the Program under consideration may be divided into two broad categories i) theory courses and ii) laboratory, for the evaluation. The overall percentage distribution of marks for direct assessment methods as per examination scheme prescribed by university is shown in Table 8.4.1.1.

<i>Table 8.4.1.1</i> : Co	Table 8.4.1.1: Course Outcome (CO) Assessment Evaluation Process						
Course Type	Assessment Type	Evaluation Through	Marks Distribution				
	Direct Assessment						
	Internal	Class Test	30 %				
Theory	Internal	Assignment					
	External	University Examination	70 %				
I abovatom	Internal	Continuous Evaluation	40 %				
Laboratory	External	University Examination	60 %				

Data Acquisition Process for CO Assessment

The data required for the assessment of attainment level of each CO is indicated in above table.

The data acquisition frequency and process is presented in *Table 8.4.1.2*.

Table 8.4.1.2: Data acquisition process for CO Assessment						
Assessment Tool	Data Collection Frequency	Responsible Entity				
Class Test	Four times every semester*	Faculty Members				
Assignment	Four times every semester*	Faculty Members				
Rubric of Continuous Evaluation in Laboratories	Continuous	Faculty Members				
University Exam	Semester wise	Faculty Members				
*As per university guidelines, the data collection frequency for class test and assignment was twice per semester till AY 2019-20						

8.4.2 Record the attainment of Course Outcomes of all first-year courses (5)

The attainment of each course outcome is measured through percentage students getting

marks above target level for each assessment tool as indicated in (as indicated in *Table* 8.4.1.1). The attainment level for CO assessment is adopted as in *Table* 8.4.2.1.

Table 8.4.2.1. Attainment level of Course Outcome through various assessment tools					
Attainment Level (AL)	Criteria				
1	60% of students scoring above Target level*				
2	70% of students scoring above Target level*				
3	80% of students scoring above Target level*				
*Target Levels is set for individual course keeping past university examination result					

Sample CO attainment through direct assessment process of Course – Chemistry - I (BSCH-201) is shown below.

COURSE: CHEMISTRY-I							
COURSE CODE: BSCH 201; SESSION: 2020 EVEN SEMESTER:2 nd YEAR: 1st							
A1: 60% OF STUDENTS SCORING MORE THAN 55% MARKS							
A2: 70% OF STUDENTS SCORING MORE THAN 55% MARKS							
A3: 80% OF STUDENTS SCORING MORE THAN 55% MARKS							
INTERNAL ASSESMENT (BSCH201 for 2019-2020)							

	TABLE 1: CLASS TEST DATA								
Sl No.	Student Name	Roll. No.	Class Test 1		Class		Class Test 3	Class Test 4	
			BSCH		BSCH		BSCH	BSCH	
			201.1	201.2	201.3	201.4	201.5	201.6	
	Contribution in Question paper	ſ	30	20	10	20	10	30	
1	SWETA BHOWMICK	10800119001	28	18	8	17	9	30	
2	TANIYA ROY	10800119002	30	20	10	20	10	30	
3	SHANA PARWEEN	10800119003	30	19	9	20	10	30	
4	SURYADEEP SEN	10800119004	30	20	10	20	10	28	
5	AYAN ROY	10800119005	30	18	10	19	9	30	
6	SHRESTHA THAKUR	10800119006	30	20	10	20	10	28	
7	RASHI SAHAY	10800119007	30	20	10	20	10	30	
8	SWARUP BIT	10800119008	28	20	10	20	8	26	
9	SUPRIO MONDAL	10800119009	26	17	9	17	9	26	
10	AYUSH KR SHARMA	10800119010	26	17	9	20	8	26	
11	NEETA KR SRIVASTAWA	10800119011	26	20	8	19	7	26	
12	APURVA SRIVASTAVA	10800119012	30	18	10	19	9	30	
13	SHUBHAM DAS	10800119013	30	20	10	20	10	30	
14	KOMAL KUMARI	10800119014	28	20	10	20	10	26	
15	ARPITA MUKHERJEE	10800119015	30	20	10	20	10	28	
16	KARANVEER SINGH	10800119016	28	20	8	20	10	26	
17	JYOTI RANI	10800119017	30	20	10	20	10	30	
18	ANURAG SHARMA	10800119018	30	20	10	20	10	30	
19	ASHUTOSH AMARTYA	10800119019	30	20	10	20	10	30	
20	ROHIT KR MAHATO	10800119020	30	20	10	20	10	30	
21	SUMONA MONDAL	10800119021	30	20	10	20	10	30	
22	ANSHU GUPTA	10800119023	30	20	10	20	10	30	
23	HARSH KR SINGH	10800119024	30	20	10	20	10	28	
24	SHREYASI BALL	10800119025	26	17	9	18	8	28	
25	SHIBU SINGH	10800119026	28	19	9	19	9	28	
26	SUBHAM BOURI	10800119027	26	18	8	18	8	30	
27	ABINASH CHOUDHARY	10800119028	30	18	10	20	10	30	
28	NIRAJ KUMAR	10800119029	42	20	10	20	10	30	
29	SUBHRAJEET DAS	10800119030	26	17	9	17	9	24	
30	SANTOSH KUMAR DAS	10800119031	28	20	10	20	10	26	
31	SHUBHAM KUMAR	10800119032	30	20	10	20	10	28	
32	AKHILESH KUMAR	10800119033	30	20	10	20	10	30	
33	ARNAB OJHA	10800119034	26	18	8	18	8	24	

34	ABHISHEK RAKSHIT	10800119035	30	20	10	20	10	30
35	RYAN RAY	10800119035	30	20	10	20	10	30
36	SUBHADEEP MAJI	10800119037	28	17	9	18	8	30
37	SOUVIK GHOSAL	10800119037	30	20	10	20	10	30
38	SNEHA SUMAN	10800119038	28	20	8	20	10	26
39	SREEJA GHOSH	10800119039	28	20	10	19	9	26
40					-		~	
	SNEHA MUKHERJEE	10800119041	28	17	9	18	10 9	30
41	PRATIK JHUNJHUNWALA	10800119042	28	19	7	17	9	30
42	NITIN KUMAR CHAURASIA	10800119043	26	19	7	17	~	28
43	SUBHAMOY BANERJEE	10800119044	26	19	7	19	7	26
44	AYUSH DUTTA	10800119045	30	20	10	23	11	30
45	PRITAM CHANDA	10800119046	28	20	10	20	8	26
46	SOURAV ROY	10800119047	26	17	9	18	8	26
47	ANURAG KUMAR	10800119048	26	17	9	18	8	26
48	HANSWENI PRABHAKAR	10800119049	28	18	8	19	7	30
49	SUSHMITA DUTTA	10800119050	30	20	10	20	10	28
50	VIVEK VERMA	10800119051	28	18	10	18	10	28
51	SARBANANDA MAJI	10800119052	30	20	10	20	10	30
52	MD AHMAD RAZA	10800119053	26	19	7	20	8	26
53	MD SAIF IQBAL	10800119054	30	18	10	20	10	30
54	SRIJA BANERJEE	10800119055	28	18	8	19	7	30
55	RAJANI ROY	10800119056	30	20	10	20	10	30
56	SAPTAPARNI KUNDU	10800119057	30	20	10	20	10	28
57	RAJDIP MAHATO	10800119058	28	18	8	20	8	30
58	JANHABI MUKHERJEE	10800119059	30	20	10	20	10	30
59	RITOBRATO ROY	10800119060	26	17	9	19	9	26
60	ANSU DALMIA	10800119061	30	20	10	20	10	28
61	KAMRAN HASSAN	10800119062	30	20	10	20	10	30
62	RUPA KUMARI YADAV	10800119062	28	17	9	19	7	30
63	RITIK KUMAR	10800119003	28	17	8	20	8	26
64	SANCHARI DUTTA	10800119064	20	18	8	20	8 10	28
65	SASWATA CHATTERJEE	10800119065	28	18	10	19	9	28
							9	
66	SOUMEN KARMAKAR	10800119067	30	20	10	19	~	30
67	MD ADIL	10800119068	30	20	10	20	10	30
68	PRERNA BARNWAL	10800119069	26	19	7	18	8	28
69	DEEP CHAKRABORTY	10800119070	30	20	10	20	10	28
70	ADITYA RAJ	10800119071	26	17	9	18	8	26
71	PURBITA DEB	10800119072	30	20	10	20	10	30
72	DEBAPRIYA MUKHOPADHYAY	10800119073	30	20	10	20	10	28
73	KUNDAN ROY	10800119074	30	20	10	20	10	30
74	SIDDHARTHA PAL	10800119075	28	18	10	18	10	28
75	AKASH KUMBHAKAR	10800119076	30	23	11	20	10	30
76	MRINAL TANTUBAI	10800119077	30	20	10	20	10	30
77	DEBARGHYA MITRA	10800119078	30	20	10	20	10	30
78	DEBJIT RAY	10800119079	30	20	10	20	10	30
79	LOKESH KUMAR SINGH	10800119080	30	20	10	20	10	30
80	RAJAT KUMAR CHANDRA	10800119081	30	20	10	20	10	28
81	KESHAV KR GUPTA	10800119082	30	20	10	20	10	28
82	NIDHI KUMARI	10800119083	26	18	8	17	9	28
83	AKASH RUIDAS	10800119084	26	19	7	18	8	28
84	SHUBHAM KUMAR	10800119085	30	20	10	20	10	30
85	KISHAN KUMAR	10800119086	28	19	7	18	10	30
86	NEELI KUMARI	10800119080	30	20	10	18	10	30
87	VAISHNAVI RANJAN	10800119087	30	20	10	20	10	30
88	SAUMYA VERMA	10800119088	28	18	10	19	9	28
89	TANYA LAL	10800119089	28 30	20	10	20	10	30
<u>89</u> 90	SUSMIT SHAW	10800119090	24	16		19	7	24
					6			
91	UTKARSH UMANG	10800119092	30	20	10	20	10	28
0.0	TIIN A A NICITITI NTA NUN A NU	10800119093	26	18	8	18	8	28
92	HIMANSHU NANDAN		20					211
93	SHUBHAM	10800119094	30	20	8	18	10	30
93 94	SHUBHAM GOURAV KUMAR	10800119094 10800119095	30	23	11	20	10	30
93 94 95	SHUBHAM GOURAV KUMAR SHRISTI SAGAR	10800119094 10800119095 10800119096	30 30	23 20	11 10	20 20	10 10	30 30
93 94	SHUBHAM GOURAV KUMAR	10800119094 10800119095	30	23	11	20	10	30

98	ROSHNI BOSE	10800119099	28	20	10	17	9	28
99	ADITI GHOSAL	10800119100	30	20	10	20	10	30
100	GULSHAN KUMAR	10800119101	28	19	7	19	9	30
101	DEEPAK KUMAR	10800119102	30	20	10	20	10	28
102	ANIMESH RAJ	10800119103	30	20	10	20	10	28
103	ANJALI KEWAT	10800119104	30	20	10	20	10	30
104	HARSH KASHYAP	10800119105	30	20	10	20	10	30
105	ANIKET SINHA	10800119106	26	18	8	20	8	26
106	SAYAK PAL	10800119107	30	20	10	20	10	30
107	AVIJEET GHOSH	10800119108	30	20	10	20	10	30
108	TIRTHARAJ SEN	10800119109	26	19	7	19	9	26
109	RISHIK CH. PAHARI	10800119110	28	18	8	20	10	28
110	PROTETI MITRA	10800119111	30	20	10	20	10	28
111	RISHAB DEV	10800119112	30	20	10	20	10	30
112	ABHIRAJ VERMA	10800119113	30	20	10	20	10	30
113	ABHISHEK KR JAISWAL	10800119114	30	20	10	20	10	30
114	PROYETI MITRA	10800119115	30	20	10	20	10	28
115	ABHINAV MISHRA	10800119116	26	19	7	17	9	28
116	HRICK KARNA ROY	10800119117	30	20	10	20	10	30
117	AMAN KUMAR	10800119118	30	20	10	20	10	30
118	ADITYA ANAND	10800119119	30	20	10	20	10	30
119	ANKIT KUMAR	10800119120	30	20	10	19	9	30
120	ANIKET SINGH	10800119121	30	20	10	20	10	28
121	AMAN GUPTA	10800119122	30	20	10	20	10	28
122	ABHISHEK ANAND	10800119123	28	20	10	20	10	26
123	SOURIN DEY	10800119130	30	20	10	19	9	30
124	ASHMITA BHATTACHARYYA	10800119137	30	20	10	20	10	30
No. of	f Students above Target level for each CO		124	124	124	124	124	124
% of	students above Target Level		100	100	100	100	100	100

	TABLE 2	ASSIGNMENT	DATA (B	SCH201	for 2019-2	2020)		
SI	Student Name	Roll. No.	Assign	ment - 1	Assign	ment - 2	Assignm ent - 3	Assignm ent - 4
No.	Student Name	KOII. NO.	BSCH	BSCH	BSCH	BSCH	BSCH	BSCH
			201.1 18	201.2	201.3	201.4	201.5	201.6
		ntribution in Question paper		12	16	14	30	30
1	SWETA BHOWMICK	10800119001	15	9	11	13	24	24
2	TANIYA ROY	10800119002	16	11	16	14	30	24
3	SHANA PARWEEN	10800119003	15	9	12	12	24	24
4	SURYADEEP SEN	10800119004	14	10	15	12	24	24
5	AYAN ROY	10800119005	14	10	11	13	24	21
6	SHRESTHA THAKUR	10800119006	14	10	11	13	24	24
7	RASHI SAHAY	10800119007	18	12	14	13	30	30
8	SWARUP BIT	10800119008	15	9	12	12	24	27
9	SUPRIO MONDAL	10800119009	16	11	13	11	24	30
10	AYUSH KR SHARMA	10800119010	16	11	13	11	24	30
11	NEETA KR SRIVASTAWA	10800119011	17	10	16	14	30	24
12	APURVA SRIVASTAVA	10800119012	14	10	13	11	24	21
13	SHUBHAM DAS	10800119013	14	10	11	13	24	21
14	KOMAL KUMARI	10800119014	15	9	12	12	24	24
15	ARPITA MUKHERJEE	10800119015	15	9	13	11	24	27
16	KARANVEER SINGH	10800119016	15	9	13	11	24	24
17	JYOTI RANI	10800119017	14	10	11	13	24	24
18	ANURAG SHARMA	10800119018	17	10	16	14	30	24
19	ASHUTOSH AMARTYA	10800119019	17	10	16	14	24	27
20	ROHIT KR MAHATO	10800119020	14	10	12	12	24	24
21	SUMONA MONDAL	10800119021	14	10	13	11	24	24
22	ANSHU GUPTA	10800119023	17	10	13	11	24	30
23	HARSH KR SINGH	10800119024	15	9	11	13	24	21
24	SHREYASI BALL	10800119025	18	12	16	14	30	30
25	SHIBU SINGH	10800119026	14	10	11	10	21	24
26	SUBHAM BOURI	10800119027	16	11	16	14	30	24
27	ABINASH CHOUDHARY	10800119028	18	12	13	14	27	30
28	NIRAJ KUMAR	10800119029	18	12	16	14	30	30

20		10200110020	14	10	1 11	12	24	27
29	SUBHRAJEET DAS	10800119030	14	10	11	13	24	27
30	SANTOSH KUMAR DAS	10800119031	14	10	12	12	24	24
31	SHUBHAM KUMAR	10800119032	14	10	12	12	24	24
32	AKHILESH KUMAR	10800119033	18	12	16	14	30	30
33	ARNAB OJHA	10800119034	14	10	10	11	24	24
34	ABHISHEK RAKSHIT	10800119035	16	11	16	14	30	24
35	RYAN RAY	10800119036	17	10	16	14	24	27
36	SUBHADEEP MAJI	10800119037	14	10	13	11	24	21
37	SOUVIK GHOSAL	10800119038	17	10	16	14	27	24
38	SNEHA SUMAN	10800119039	17	10	13	14	30	24
39	SREEJA GHOSH	10800119040	14	10	12	12	24	24
40	SNEHA MUKHERJEE	10800119041	16	11	16	14	30	24
41	PRATIK JHUNJHUNWALA	10800119042	18	12	16	14	30	30
42	NITIN KUMAR CHAURASIA	10800119043	15	9	13	11	24	24
43	SUBHAMOY BANERJEE	10800119044	17	10	16	14	30	24
44	AYUSH DUTTA	10800119045	15	9	12	12	24	21
45	PRITAM CHANDA	10800119046	14	10	13	11	24	21
46	SOURAV ROY	10800119047	15	9	15	12	24	24
47	ANURAG KUMAR	10800119048	15	9	12	12	24	24
48	HANSWENI PRABHAKAR	10800119049	16	11	13	14	27	27
49	SUSHMITA DUTTA	10800119050	14	10	12	12	27	24
50	VIVEK VERMA	10800119051	14	10	11	13	24	27
51	SARBANANDA MAJI	10800119052	17	10	16	12	27	24
52	MD AHMAD RAZA	10800119052	17	10	10	14	30	27
53	MD SAIF IQBAL	10800119054	16	10	16	12	27	24
54	SRIJA BANERJEE	10800119055	15	9	10	14	27	24
55	RAJANI ROY	10800119055	13	10	13	14	27	24
56	SAPTAPARNI KUNDU	10800119057	14	10	16	13	30	30
57			18	12	16	14	30	24
	RAJDIP MAHATO	10800119058					24	
58	JANHABI MUKHERJEE	10800119059	14	10	11	13		24
59	RITOBRATO ROY	10800119060	14	10	11	13	24	27
60	ANSU DALMIA	10800119061	18	12	16	14	30	30
61	KAMRAN HASSAN	10800119062	14	10	13	14	27	24
62	RUPA KUMARI YADAV	10800119063	15	9	11	13	24	21
63	RITIK KUMAR	10800119064	14	10	13	11	24	27
64	SANCHARI DUTTA	10800119065	18	12	16	14	27	30
65	SASWATA CHATTERJEE	10800119066	14	10	14	13	27	24
66	SOUMEN KARMAKAR	10800119067	16	11	12	12	24	30
67	MD ADIL	10800119068	15	9	12	12	24	24
68	PRERNA BARNWAL	10800119069	14	10	13	11	21	24
69	DEEP CHAKRABORTY	10800119070	14	10	11	13	24	21
70	ADITYA RAJ	10800119071	15	9	13	14	24	24
71	PURBITA DEB	10800119072	14	10	11	10	21	24
72	DEBAPRIYA MUKHOPADHYAY	10800119073	15	9	14	13	24	24
73	KUNDAN ROY	10800119074	14	10	11	13	21	24
74	SIDDHARTHA PAL	10800119075	14	10	11	13	24	27
75	AKASH KUMBHAKAR	10800119076	18	12	16	14	27	27
76	MRINAL TANTUBAI	10800119077	18	12	16	14	30	30
77	DEBARGHYA MITRA	10800119078	14	10	12	12	24	24
78	DEBJIT RAY	10800119079	17	10	13	11	24	30
79	LOKESH KUMAR SINGH	10800119080	15	9	12	12	24	21
80	RAJAT KUMAR CHANDRA	10800119081	16	11	16	12	24	27
81	KASAT KUMAK CHANDKA KESHAV KR GUPTA	10800119081	16	11	16	14	30	24
81	NIDHI KUMARI	10800119082	10	10	15	14	30	24
83	AKASH RUIDAS	10800119083	17	10	13	12	24	24
83	SHUBHAM KUMAR	10800119084	14	10	15	11	30	30
85	KISHAN KUMAR	10800119086	17	10	13	14	30	24
86	NEELI KUMARI	10800119087	16	11	15	12	30	24
87	VAISHNAVI RANJAN	10800119088	18	12	16	14	30	30
88	SAUMYA VERMA	10800119089	15	9	10	11	24	24
89	TANYA LAL	10800119090	15	9	13	11	24	27
~ ~			10	. 10	16	1.4	1 20	30
90	SUSMIT SHAW	10800119091	18	12	16	14	30	
90 91 92	SUSMIT SHAW UTKARSH UMANG HIMANSHU NANDAN	10800119091 10800119092 10800119093	18 14 18	12 10 12	10 12 16	14 12 14	24 30	24 30

93	SHUBHAM	10800119094	14	10	11	13	27	24
94	GOURAV KUMAR	10800119095	14	10	14	13	24	24
95	SHRISTI SAGAR	10800119096	14	10	13	14	27	24
96	JAYESH NATH JHA	10800119097	15	9	12	12	24	27
97	HARSH TIWARI	10800119098	17	10	16	14	24	27
98	ROSHNI BOSE	10800119099	15	9	13	11	24	21
99	ADITI GHOSAL	10800119100	16	11	13	14	30	24
100	GULSHAN KUMAR	10800119101	18	12	16	14	30	30
101	DEEPAK KUMAR	10800119102	15	9	12	12	24	24
102	ANIMESH RAJ	10800119103	15	9	10	11	24	24
103	ANJALI KEWAT	10800119104	16	11	13	11	30	27
104	HARSH KASHYAP	10800119105	15	9	11	13	27	24
105	ANIKET SINHA	10800119106	18	12	16	14	30	30
106	SAYAK PAL	10800119107	15	9	12	12	24	21
107	AVIJEET GHOSH	10800119108	17	10	12	12	30	27
108	TIRTHARAJ SEN	10800119109	14	10	13	11	24	24
109	RISHIK CH. PAHARI	10800119110	15	9	13	11	24	24
110	PROTETI MITRA	10800119111	18	12	15	12	30	27
111	RISHAB DEV	10800119112	18	12	16	14	30	30
112	ABHIRAJ VERMA	10800119113	16	11	16	14	27	24
113	ABHISHEK KR JAISWAL	10800119114	15	9	14	13	27	24
114	PROYETI MITRA	10800119115	14	10	12	12	24	21
115	ABHINAV MISHRA	10800119116	15	9	11	13	24	24
116	HRICK KARNA ROY	10800119117	14	10	12	12	24	24
117	AMAN KUMAR	10800119118	15	9	11	13	24	24
118	ADITYA ANAND	10800119119	18	12	16	14	30	30
119	ANKIT KUMAR	10800119120	17	10	13	14	30	24
120	ANIKET SINGH	10800119121	15	9	13	11	27	24
121	AMAN GUPTA	10800119122	14	10	12	12	24	24
122	ABHISHEK ANAND	10800119123	14	10	12	12	24	21
123	SOURIN DEY	10800119130	14	10	13	14	24	24
124	ASHMITA BHATTACHARYYA	10800119137	17	10	16	14	27	24
No. of S	No. of Students above Target level for each CO			124	124	124	124	124
% of st	tudents above Target Level		100	100	100	100	100	100

TABLE 3: CO ATTAINMENT CALCULAT	TION FOR	INTERNAL	ASSESME	NT (BSCH2	01 for 2019	-2020)
INTERNAL ATTAINMENT CONTRIBUTION	BSCH 201.1	BSCH 201.2	BSCH 201.3	BSCH 201.4	BSCH 201.5	BSCH 201.6
% OF STUDENTS ABOVE TARGET IN CLASS TEST	100	100	100	100	100	100
% OF STUDENTS ABOVE TARGET IN ASSIGNMENT	100	100	100	100	100	100
WIEGHTED AVERAGE = CT*0.6+ AT*0.4	100	100	100	100	100	100
ATTAINMENT LEVEL THROUGH INTERNAL ASSESMENT	3	3	3	3	3	3

	TABLE 4: EXTERNAL A	SSSESMENT D	DATA FOR B	SCH-201 (UNIV	ERSITY EXAN	A DATA)
Sl	STUDENT NAME	ROLL NO	GRADE	AVERAGE	INTERNAL	EXTERNA
				MARKS	MARKS	L MARKS
1	SWETA BHOWMICK	10800119001	E(36)	85	26	59
2	TANIYA ROY	10800119002	O(40)	95	28	67
3	SHANA PARWEEN	10800119003	O(40)	95	27	68
4	SURYADEEP SEN	10800119004	O(40)	95	27	68
5	AYAN ROY	10800119005	O(40)	95	27	68
6	SHRESTHA THAKUR	10800119006	O(40)	95	27	68
7	RASHI SAHAY	10800119007	O(40)	95	29	66
8	SWARUP BIT	10800119008	O(40)	95	26	69
9	SUPRIO MONDAL	10800119009	O(40)	95	25	70
10	AYUSH KR SHARMA	10800119010	O(40)	95	25	70

11	NEETA KR SRIVASTAWA	10800119011	O(40)	95	25	70
12	APURVA SRIVASTAVA	10800119012	E(36)	85	27	58
13	SHUBHAM DAS	10800119012	O(40)	95	29	66
14	KOMAL KUMARI	10800119014	O(40)	95	26	69
15	ARPITA MUKHERJEE	10800119015	E(36)	85	27	58
16	KARANVEER SINGH	10800119016	O(40)	95	26	69
17	JYOTI RANI	10800119017	O(40)	95	27	68
18	ANURAG SHARMA	10800119018	O(40)	95	29	66
19	ASHUTOSH AMARTYA	10800119019	O(40)	95	28	67
20	ROHIT KR MAHATO	10800119019	O(40)	95	28	67
20	SUMONA MONDAL	10800119020	O(40)	95	28	66
21	ANSHU GUPTA	10800119021	O(40)	95	29	66
23	HARSH KR SINGH	10800119023	O(40)	95	29	67
23	SHREYASI BALL	10800119024	O(40)	95	28	70
25	SHIRE FAST BALL	10800119025	O(40)	95	25	69
26	SUBHAM BOURI	10800119020	O(40)	95	25	70
20			× /	95	23	68
27	ABINASH CHOUDHARY	10800119028	O(40) O(40)	93	35	60
28	NIRAJ KUMAR	10800119029		75	24	51
	SUBHRAJEET DAS	10800119030	A(32)			
30	SANTOSH KUMAR DAS	10800119031	O(40)	95	26	69 68
31	SHUBHAM KUMAR	10800119032	O(40)	95	27	68
32	AKHILESH KUMAR	10800119033	O(40)	95 75	29	<u>66</u>
33	ARNAB OJHA	10800119034	A(32)	75	24	51
34	ABHISHEK RAKSHIT	10800119035	O(40)	95	27	68
35	RYAN RAY	10800119036	O(40)	95	28	67
36	SUBHADEEP MAJI	10800119037	O(40)	95	26	69
37	SOUVIK GHOSAL	10800119038	E(36)	85	28	57
38	SNEHA SUMAN	10800119039	O(40)	95	26	69
39	SREEJA GHOSH	10800119040	A(32)	75	26	49
40	SNEHA MUKHERJEE	10800119041	O(40)	95	26	69
41	PRATIK JHUNJHUNWALA	10800119042	O(40)	95	26	69
42	NITIN KUMAR CHAURASIA	10800119043	E(36)	85	25	60
43	SUBHAMOY BANERJEE	10800119044	O(40)	95	25	70
44	AYUSH DUTTA	10800119045	O(40)	95	29	66
45	PRITAM CHANDA	10800119046	O(40)	95	26	69
46	SOURAV ROY	10800119047	O(40)	95	25	70
47	ANURAG KUMAR	10800119048	O(40)	95	25	70
48	HANSWENI PRABHAKAR	10800119049	O(40)	95	26	69
49	SUSHMITA DUTTA	10800119050	O(40)	95	28	67
50	VIVEK VERMA	10800119051	O(40)	95	26	69
51	SARBANANDA MAJI	10800119052	O(40)	95	28	67
52	MD AHMAD RAZA	10800119053	O(40)	95	25	70
53	MD SAIF IQBAL	10800119054	O(40)	95	27	68
54	SRIJA BANERJEE	10800119055	O(40)	95	26	69
55	RAJANI ROY	10800119056	O(40)	95	29	66
56	SAPTAPARNI KUNDU	10800119057	E(36)	85	27	58
57	RAJDIP MAHATO	10800119058	O(40)	95	26	69
58	JANHABI MUKHERJEE	10800119059	O(40)	95	28	67
59	RITOBRATO ROY	10800119060	O(40)	95	25	70
60	ANSU DALMIA	10800119061	O(40)	95	27	68
61	KAMRAN HASSAN	10800119062	O(40)	95	29	66
62	RUPA KUMARI YADAV	10800119063	O(40)	95	26	69
63	RITIK KUMAR	10800119064	O(40)	95	25	70
64	SANCHARI DUTTA	10800119065	O(40)	95	26	69
65	SASWATA CHATTERJEE	10800119066	O(40)	95	26	69
66	SOUMEN KARMAKAR	10800119067	O(40)	95	27	68
67	MD ADIL	10800119068	O(40)	95	27	68
68	PRERNA BARNWAL	10800119069	O(40)	95	25	70
69	DEEP CHAKRABORTY	10800119070	O(40)	95	27	68
70	ADITYA RAJ	10800119071	O(40)	95	25	70
71	PURBITA DEB	10800119072	O(40)	95	27	68
72	DEBAPRIYA MUKHOPADHYAY	10800119072	O(40)	95	28	67
73	KUNDAN ROY	10800119074	O(40)	95	28	67
74	SIDDHARTHA PAL	10800119075	O(40)	95	26	69
<u> </u>			-()		-~	<i></i>

	ATTAINMENT LEVEL THR	OUGH EXTERN	AL ASSES	MENT		3
	PERCENTAGE OF STUDEN					100
	NO OF STUDENTS ABOVE 7					124
124	ASHMITA BHATTACHARYYA	10800119137	E(36)	85	28	57
123	SOURIN DEY	10800119130	O(40)	95	27	68
122	ABHISHEK ANAND	10800119123	O(40)	95	26	69
121	AMAN GUPTA	10800119122	O(40)	95	28	67
120	ANIKET SINGH	10800119121	O(40)	95	28	67
119	ANKIT KUMAR	10800119120	O(40)	95	27	68
118	ADITYA ANAND	10800119119	O(40)	95	29	66
117	AMAN KUMAR	10800119118	O(40)	95	29	66
116	HRICK KARNA ROY	10800119117	O(40)	95	29	66
115	ABHINAV MISHRA	10800119116	O(40)	95	25	70
114	PROYETI MITRA	10800119115	O(40)	95	27	68
113	ABHISHEK KR JAISWAL	10800119114	O(40)	95	29	66
112	ABHIRAJ VERMA	10800119113	O(40)	95	28	67
111	RISHAB DEV	10800119112	O(40)	95	29	66
110	PROTETI MITRA	10800119111	O(40)	95	28	67
109	RISHIK CH. PAHARI	10800119110	O(40)	95	26	69
108	TIRTHARAJ SEN	10800119109	O(40)	95	25	70
107	AVIJEET GHOSH	10800119108	O(40)	95	29	66
106	SAYAK PAL	10800119107	O(40)	95	28	67
105	ANIKET SINHA	10800119106	E(36)	85	25	60
104	HARSH KASHYAP	10800119105	E(36)	85	28	57
103	ANJALI KEWAT	10800119104	O(40)	95	28	67
102	ANIMESH RAJ	10800119103	E(36)	85	28	57
101	DEEPAK KUMAR	10800119102	O(40)	95	27	68
100	GULSHAN KUMAR	10800119101	O(40)	95	26	69
99	ADITI GHOSAL	10800119100	O(40)	95	29	66
98	ROSHNI BOSE	10800119099	O(40)	95	26	69
97	HARSH TIWARI	10800119098	E(36)	85	28	57
96	JAYESH NATH JHA	10800119097	E(36)	85	27	58
95	SHRISTI SAGAR	10800119096	O(40)	95	29	66
94	GOURAV KUMAR	10800119095	O(40)	95	29	66
93	SHUBHAM	10800119094	O(40)	95	27	68
92	HIMANSHU NANDAN	10800119093	O(40)	95	25	70
91	UTKARSH UMANG	10800119092	O(40)	95	27	68
90	SUSMIT SHAW	10800119091	A(32)	75	23	52
89	TANYA LAL	10800119090	O(40)	95	28	67
88	SAUMYA VERMA	10800119089	O(40)	95	26	69
87	VAISHNAVI RANJAN	10800119088	O(40)	95	29	66
86	NEELI KUMARI	10800119087	O(40)	95	27	68
85	KISHAN KUMAR	10800119086	O(40)	95	26	69
84	SHUBHAM KUMAR	10800119085	O(40)	95	29	66
83	AKASH RUIDAS	10800119084	O(40)	95	25	70
82	NIDHI KUMARI	10800119083	O(40)	95	25	70
81	KESHAV KR GUPTA	10800119082	O(40)	95	28	67
80	RAJAT KUMAR CHANDRA	10800119081	O(40)	95	28	67
79	LOKESH KUMAR SINGH	10800119080	O(40)	95	28	67
78	DEBJIT RAY	10800119079	O(40)	95	28	67
77	DEBARGHYA MITRA	10800119077	O(40)	95	27	68
76	MRINAL TANTUBAI	10800119076 10800119077	O(40) O(40)	95	27	68

TABLE 5: OVERALL CO ATTAINMENT LEVEL CALCULATION: BSCH201 for 2019-2020											
ATTAINMENT LEVEL	BSCH 201.1	BSCH 201.2	BSCH 201.3	BSCH 201.4	BSCH 201.5	BSCH 201.6					
THROUGH INTERTNAL ASSESMENT	3	3	3	3	3	3					
THROUGH EXTERNAL ASSESMENT	3	3	3	3	3	3					
OVERALL CO ATTAINMENT LEVEL FOR EACH CO (AL) (30% OF INTERNAL +70 % of EXTERNAL)	1	3	3	3	3	3					

TABLE	E 8.4.2.2	Direct Course O	utcome At	tainment l	Record of a	all 1 st Year	•
			OUTCOM				
Course Code		CO1	CO2	CO3	CO4	CO5	CO6
		Academ	ic Year 20	19-20			
BS-CH-201		3	3	3	3	3	3
BS-CH-291		3	3	3	3	3	3
BS-M-101		1.6	1.6	1.6	1.6	1.6	1.6
BS-M201		3	3	3	3	3	3
BS-PH101		1.6	1.6	1.6	1.6	1.6	1.6
BS-PH191		2.6	3	2.2	3	3	3
ES-CS201		3	3	3	3	3	-
ES-CS291		3	3	3	3	-	-
ES-EE-101		1.6	1.6	1.6	1.6	1.6	1.6
ES-EE-191		3	3	3	3	3	3
ES-ME-192		2.4	2.4	2.4	1.6	1.2	-
ES-ME-291		2.2	2.6	3	3	2.6	-
HM-HU201		3	3	3	3	3	3
HM-HU291		3	3	3	3	3	-
		Academ	ic Year 20	18-19			
BS-CH-201		1.6	1.3	1	1.6	1.3	1.3
BS-CH-291		2.2	2.2	1.8	2.6	2.6	2.2
BS-M-101		3	3	3	3	3	3
BS-M201		1.6	1.6	1.6	1.6	1.6	1.6
BS-PH101		1.6	1.3	1	1.6	1.6	1
BS-PH191		3	3	2.6	3	2.2	2.2
ES-CS201		3	3	3	3	3	-
ES-CS291		2	1.6	1.6	2.4	-	-
ES-EE-101		1.6	1.3	1.3	1.6	1.6	1.6
ES-EE-191		3	3	3	3	3	3
ES-ME-192		2.4	2.4	2.4	2	1.2	-
ES-ME-291		1.6	1.6	2	2.4	2	-
HM-HU201		3	3	3	3	3	3
HM-HU291		3	3	3	3	3	-
		Academ	<mark>ic Year 20</mark>	17-18			
CH 201		3	3	3	3	3	3
CH 291		2.6	2.6	2.2	3	3	2.6
CS 201		1.6	1.6	1.6	1.6	1.6	-
CS 291		2.4	1.6	1.6	2	-	-
ES 101		1.7	1.7	1.7	1.7	1.7	1.7
ES 191		2.4	2.4	2.4	2.4	2.4	2.4
ES 201		0.7	0.7	0.7	1.3	0.7	0.7
ES 291		2.6	3	3	3	2.6	2.6
HU 101		3	3	3	3	3	3

The CO Attainment level of all 1st year courses is summarized in Table 8.4.2.2. for academic years 2019-20, 2018-19 and 2017-18.

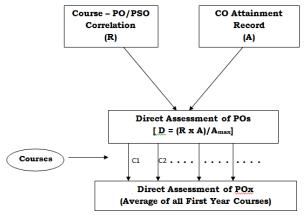
HU 181	3	3	3	3	3	-
M 101	2.3	2.3	2.3	2.3	2.3	2.3
M 201	1.6	1.3	1.3	1.6	1.6	1.3
ME 101	1.6	1.6	1.6	1.6	1.6	-
ME 192	1.8	1.8	1.4	1	1	-
ME 201	1.6	1.6	1.6	1.6	1.6	-
ME 291	1.6	1.6	2	2.4	2	-
PH 101	1.6	1.3	1.3	1.6	1.6	1.3
PH 191	3	2.7	2.4	3	3	3
XC 181	3	3	3	3	3	3

8.5 Attainment of Program Outcomes from first year courses (20)

8.5.1 Indicate results of evaluation of each <u>relevant</u> PO and/or PSO, if applicable (15)

The direct assessment process used for evaluation of attainment level is schematically shown below:

Direct Assessment Process:



	PO Attainment Record of 1 st Year Course											
Course	PO-	PO-	PO-	PO-	PO-	PO-	PO-	PO-	PO-	PO-	PO-	PO-
Code	1	2	3	4	5	6	7	8	9	10	11	12
				Acad	demic]	<mark>Year 2</mark>	<u>019-20</u>		-			
BS-CH-201	3	2	-	-	-	3	-	-	-	2	-	2
BS-CH-291	3	2	-	-	-	3	2	-	2	2	-	3
BS-M 201	2.5	2.33	-	-	-	-	-	-	-	1.33	-	2.5
BS-M-101	1.6	1.07	-	-	-	-	-	-	-	0.53	-	1.6
BS-PH 101	1.6	1.07	-	-	-	-	-	-	-	1.07	-	1.07
BS-PH191	2.7	2.7	-	-	-	-	-	-	2.8	1.87	-	1.87
ES-CS201	3	3	3	-	-	-	-	-	3	3	-	3
ES-CS291	3	3	3	3	3	-	-	-	3	3	-	3
ES-EE-101	1.6	1.6	-	-	-	-	-	-	0.53	1.07	-	1.07
ES-EE-191	3	3	-	-	-	-	-	-	2	3	-	2
ES-ME-192	1.6	1.49	-	-	-	-	-	-	1.84	0.67	-	1.33
ES-ME-291	2.36	2.36	-	-	2.6	-	-	-	2.68	1.79	-	1.64

HM-HU201	-	_	_	_	_	3	3	3	3	3	3	3
HM-HU291	-	-	-	-	-	-	-	5	3	3	3	3
Direct	-	-	-	-	-	-	-	-	5	5	5	5
Attainment	2.41	2.14	3	3	2.8	3	2.5	3	2.39	1.95	3	2.15
				Acad	demic '	Year 2	018-19)				
BS-CH-201	1.35	0.9	-	-	-	1.35	-	-	-	0.9	-	0.9
BS-CH-291	2.2	1.47	-	-	-	2.2	1.47	-	0.73	0.73	-	2.2
BS-M-101	2.85	1.9	-	-	-	-	-	-	-	0.95	-	2.82
BS-M201	1.33	1.24	-	-	-	-	-	-	-	0.71	-	1.33
BS-PH101	1.45	0.97	-	-	-	-	-	-	-	0.97	-	0.97
BS-PH191	2.47	1.64	-	-	-	-	-	-	2.47	1.64	-	1.64
ES-CS201	3	3	3	-	-	-	-	-	3	3	-	3
ES-CS291	1.9	1.9	1.9	1.9	1.9	-	-	-	1.9	1.9	-	1.9
ES-EE-101	1.5	1.5	-	-	-	-	-	-	0.5	1	-	1
ES-EE-191	3	3	-	-	-	-	-	-	2	3	-	2
ES-ME-192	1.68	1.55	-	-	-	-	-	-	1.92	0.69	-	1.39
ES-ME-291	1.71	1.71	-	-	2	-	-	-	1.92	1.28	-	1.2
HM-HU201	-	-	-	-	-	3	3	3	3	3	3	3
HM-HU291	-	-	-	-	-	-	-	-	3	3	3	3
Direct											_	
Attainment	2.04	1.73	2.45	1.9	1.95	2.18	2.24	3	2.04	1.63	3	1.88
						X 7 A						
CU 201	2	2				Year2			1	2		2
CH 201	3	2	-	-	-	3	-	-	- 1 79	2	-	2
CH 291	2.67	1.78	-	-	-	3 2.67	- 1.78	-	1.78	1.78	-	2.67
CH 291 CS 201	2.67 1.6	1.78 1.6	- 1.6	-	- - -	3 2.67 -	- 1.78 -	-	1.78 1.6	1.78 1.6	-	2.67 1.6
CH 291 CS 201 CS 291	2.67 1.6 1.9	1.78 1.6 1.9	- 1.6 1.9	- - 1.9	- - 1.9	3 2.67 -	- 1.78 -	- - -	1.78 1.6 1.9	1.78 1.6 1.9	-	2.67 1.6 1.9
CH 291 CS 201 CS 291 ES 101	2.67 1.6 1.9 1.51	1.78 1.6 1.9 1.32	- 1.6 1.9 -	- - 1.9 -	- - 1.9 -	3 2.67 - -	- 1.78 - -	- - -	1.78 1.6 1.9 0.57	1.78 1.6 1.9 1.32	- - -	2.67 1.6 1.9 1.51
CH 291 CS 201 CS 291 ES 101 ES 191	2.67 1.6 1.9 1.51 1.87	1.78 1.6 1.9 1.32 1.73	- 1.6 1.9 -	- - 1.9 -	- - 1.9 -	3 2.67 - - -	- 1.78 - - -	- - - -	1.78 1.6 1.9 0.57 1.6	1.78 1.6 1.9 1.32 0.8	-	2.67 1.6 1.9 1.51 1.2
CH 291 CS 201 CS 291 ES 101 ES 191 ES 201	2.67 1.6 1.9 1.51 1.87 0.61	1.78 1.6 1.9 1.32 1.73 0.65	- 1.6 1.9 - -	- - 1.9 - -	- - 1.9 - -	3 2.67 - - -	- 1.78 - - - -	- - - - -	1.78 1.6 1.9 0.57 1.6 0.38	1.78 1.6 1.9 1.32 0.8 0.38	-	2.67 1.6 1.9 1.51 1.2 0.53
CH 291 CS 201 CS 291 ES 101 ES 191 ES 201 ES291	2.67 1.6 1.9 1.51 1.87 0.61 2.18	1.78 1.6 1.9 1.32 1.73	- 1.6 1.9 - - -	- - 1.9 - - - -	- - 1.9 - - - -	3 2.67 - - - - -	- 1.78 - - - - -	- - - - -	1.78 1.6 1.9 0.57 1.6 0.38 1.87	1.78 1.6 1.9 1.32 0.8 0.38 0.93		2.67 1.6 1.9 1.51 1.2 0.53 1.39
CH 291 CS 201 CS 291 ES 101 ES 191 ES 201 ES291 HU101	2.67 1.6 1.9 1.51 1.87 0.61 2.18 -	1.78 1.6 1.9 1.32 1.73 0.65 2.03 -	- 1.6 1.9 - - -	- - - - - - -	- - 1.9 - - -	3 2.67 - - - - 3	- 1.78 - - - - - 3	- - - - - - 3	1.78 1.6 1.9 0.57 1.6 0.38 1.87 3	1.78 1.6 1.9 1.32 0.8 0.38 0.93 3	- - - - - 3	2.67 1.6 1.9 1.51 1.2 0.53 1.39 3
CH 291 CS 201 CS 291 ES 101 ES 191 ES 201 ES291 HU101 HU181	2.67 1.6 1.9 1.51 1.87 0.61 2.18 - -	1.78 1.6 1.9 1.32 1.73 0.65 2.03 - -	- 1.6 1.9 - - - - - - -	- - 1.9 - - - - - - - - -	- - 1.9 - - - - - - -	3 2.67 - - - - 3 -	- 1.78 - - - - 3 -	- - - - - 3	1.78 1.6 1.9 0.57 1.6 0.38 1.87 3 3	1.78 1.6 1.9 1.32 0.8 0.38 0.93 3 3	- - - - - 3 3	2.67 1.6 1.9 1.51 1.2 0.53 1.39 3 3
CH 291 CS 201 CS 291 ES 101 ES 191 ES 201 ES291 HU101 HU181 M 101	2.67 1.6 1.9 1.51 1.87 0.61 2.18 - 2.3	1.78 1.6 1.9 1.32 1.73 0.65 2.03 - 1.53	- 1.6 1.9 - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - 1.9 - - - - - - - - - - - - - - - - - - -	3 2.67 - - - 3 - - 3 -	- 1.78 - - - - 3 - - 3	- - - - - 3 -	1.78 1.6 1.9 0.57 1.6 0.38 1.87 3 3 -	1.78 1.6 1.9 1.32 0.8 0.38 0.93 3 0.77		2.67 1.6 1.9 1.51 1.2 0.53 1.39 3 3 2.25
CH 291 CS 201 CS 291 ES 101 ES 191 ES 201 ES291 HU101 HU181 M 101 M 201	2.67 1.6 1.9 1.51 1.87 0.61 2.18 - 2.3 1.38	1.78 1.6 1.9 1.32 1.73 0.65 2.03 - 1.53 0.97	- 1.6 1.9 - - - - - - - - - - - - -	- - 1.9 - - - - - - - - - - - - - - - - - - -	- - 1.9 - - - - - - - - - - - - - - - - - - -	3 2.67 - - - 3 3 -	- 1.78 - - - - 3 - 3 - -	- - - - - 3 -	1.78 1.6 1.9 0.57 1.6 0.38 1.87 3 3 - -	$ \begin{array}{r} 1.78 \\ 1.6 \\ 1.9 \\ 1.32 \\ 0.8 \\ 0.38 \\ 0.93 \\ 3 \\ 3 \\ 0.77 \\ 0.48 \\ \end{array} $	- - - - 3 3 - -	$\begin{array}{c} 2.67 \\ 1.6 \\ 1.9 \\ 1.51 \\ 1.2 \\ 0.53 \\ 1.39 \\ 3 \\ 3 \\ 2.25 \\ 0.97 \end{array}$
CH 291 CS 201 CS 291 ES 101 ES 191 ES 201 ES291 HU101 HU181 M 101 M 201 ME 101	2.67 1.6 1.9 1.51 1.87 0.61 2.18 - 2.3 1.38 1.33	1.78 1.6 1.9 1.32 1.73 0.65 2.03 - 1.53 0.97 0.89	- 1.6 1.9 - - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - -	- - - - - - - - - - - - - -	3 2.67 - - - - 3 - - - - - - -	- 1.78 - - - - - 3 - - - - - - - - - - - - -	- - - - - 3 - - -	1.78 1.6 1.9 0.57 1.6 0.38 1.87 3 3 - - -	1.78 1.6 1.9 1.32 0.8 0.38 0.93 3 0.77 0.48 -	-	$\begin{array}{c} 2.67\\ 1.6\\ 1.9\\ 1.51\\ 1.2\\ 0.53\\ 1.39\\ 3\\ 3\\ 2.25\\ 0.97\\ 0.89\\ \end{array}$
CH 291 CS 201 CS 291 ES 101 ES 191 ES 201 ES291 HU101 HU181 M 101 M 201 ME 101 ME 192	2.67 1.6 1.9 1.51 1.87 0.61 2.18 - 2.3 1.38 1.33 1.12	1.78 1.6 1.9 1.32 1.73 0.65 2.03 - 1.53 0.97 0.89 1.05	- 1.6 1.9 - - - - - - - - - - - - -	- - 1.9 - - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - -	3 2.67 - - - 3 3 - - -	- 1.78 - - - - - - - - - - - - -	- - - - 3 - - - - - - - - - - - - - - -	1.78 1.6 1.9 0.57 1.6 0.38 1.87 3 3 - -	1.78 1.6 1.9 1.32 0.8 0.38 0.93 3 0.77 0.48 - 0.47	- - - - 3 3 - - - -	$\begin{array}{c} 2.67\\ 1.6\\ 1.9\\ 1.51\\ 1.2\\ 0.53\\ 1.39\\ 3\\ 3\\ 2.25\\ 0.97\\ 0.89\\ 0.93\\ \end{array}$
CH 291 CS 201 CS 291 ES 101 ES 191 ES 201 ES291 HU101 HU181 M 101 M 201 ME 101 ME 192 ME 201	2.67 1.6 1.9 1.51 1.87 0.61 2.18 - 2.3 1.38 1.33 1.12 1.33	1.78 1.6 1.9 1.32 1.73 0.65 2.03 - 1.53 0.97 0.89 1.05 0.89	- 1.6 1.9 - - - - - - - - - - - - -	- - - - - - - - - - - - - -	- - - - - - - - - - - - - - -	3 2.67 - - - - 3 - - - - - - -	- 1.78 - - - - - 3 - - - - - - - - - - - - -	- - - - - 3 - - -	1.78 1.6 1.9 0.57 1.6 0.38 1.87 3 3 - - 1.28 -	1.78 1.6 1.9 1.32 0.8 0.38 0.93 3 0.77 0.48 - 0.47 -		$\begin{array}{c} 2.67\\ 1.6\\ 1.9\\ 1.51\\ 1.2\\ 0.53\\ 1.39\\ 3\\ 3\\ 2.25\\ 0.97\\ 0.89\\ 0.93\\ 0.89\\ \end{array}$
CH 291 CS 201 CS 291 ES 101 ES 191 ES 201 ES291 HU101 HU181 M 101 M 201 ME 101 ME 192 ME 201 ME291	2.67 1.6 1.9 1.51 1.87 0.61 2.18 - 2.3 1.38 1.33 1.12 1.33 1.71	1.78 1.6 1.9 1.32 1.73 0.65 2.03 - 1.53 0.97 0.89 1.05 0.89 1.71	- 1.6 1.9 - - - - - - - - - - - - -	- - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	3 2.67 - - - 3 - - - - - - - -	- 1.78 - - - - - - - - - - - - -	- - - - 3 - - - - - - - - - - - - - - -	1.78 1.6 1.9 0.57 1.6 0.38 1.87 3 3 - - -	1.78 1.6 1.9 1.32 0.8 0.38 0.93 3 0.77 0.48 - 0.47 - 1.28	- - - - - - - - - - - -	$\begin{array}{c} 2.67\\ 1.6\\ 1.9\\ 1.51\\ 1.2\\ 0.53\\ 1.39\\ 3\\ 3\\ 2.25\\ 0.97\\ 0.89\\ 0.93\\ 0.89\\ 1.2\\ \end{array}$
CH 291 CS 201 CS 291 ES 101 ES 191 ES 201 ES291 HU101 HU181 M 101 ME 101 ME 101 ME 101 ME 192 ME 201 ME 201 PH-101	2.67 1.6 1.9 1.51 1.87 0.61 2.18 - 2.3 1.38 1.33 1.12 1.33 1.71 1.5	1.78 1.6 1.9 1.32 1.73 0.65 2.03 - 1.53 0.97 0.89 1.05 0.89 1.71 1	- 1.6 1.9 - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - 2	3 2.67 - - - - 3 - - - - - - - -	- 1.78 - - - - - - - - - - - - -	- - - - - - 3 - - - - - - - - - - - - -	1.78 1.6 1.9 0.57 1.6 0.38 1.87 3 - - 1.28 - 1.92 -	1.78 1.6 1.9 1.32 0.8 0.38 0.93 3 0.77 0.48 - 0.47 - 1.28 1		$\begin{array}{c} 2.67\\ 1.6\\ 1.9\\ 1.51\\ 1.2\\ 0.53\\ 1.39\\ 3\\ 3\\ 2.25\\ 0.97\\ 0.89\\ 0.93\\ 0.89\\ 1.2\\ 1\end{array}$
CH 291 CS 201 CS 291 ES 101 ES 191 ES 201 ES291 HU101 HU181 M 101 M 201 ME 101 ME 192 ME 201 ME291 PH-101 PH191	2.67 1.6 1.9 1.51 1.87 0.61 2.18 - 2.3 1.38 1.33 1.12 1.33 1.71	1.78 1.6 1.9 1.32 1.73 0.65 2.03 - 1.53 0.97 0.89 1.05 0.89 1.71	- 1.6 1.9 - - - - - - - - - - - - -	- - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	3 2.67 - - - - 3 - - - - - - - - - -	- 1.78 - - - - - - - - - - - - -	- - - - - - - - - - - - - - -	1.78 1.6 1.9 0.57 1.6 0.38 1.87 3 3 - 1.28 - 1.28 - 1.92 - 2.85	$ \begin{array}{r} 1.78 \\ 1.6 \\ 1.9 \\ 1.32 \\ 0.8 \\ 0.38 \\ 0.93 \\ 3 \\ 3 \\ 0.93 \\ 3 \\ 0.93 \\ 3 \\ 0.93 \\ - \\ 0.48 \\ - \\ 0.47 \\ - \\ 1.28 \\ 1 \\ 1.9 \\ 1.9 \\ - \\ 1.9 \\ - \\ 1.9 \\ - \\ 1.9 \\ - \\ 1.9 \\ - \\ 1.9 \\ - \\ 1.9 \\ - \\ 1.9 \\ - \\ 1.9 \\ - \\ 1.9 \\ - \\ 1.9 \\ - \\ 1.9 \\ - \\ 1.9 \\ - \\ 1.9 \\ - \\ 1.9 \\ \\ 1.9 \\ \\ 1.9 \\ \\ 1.9 \\ \\ 1.9 \\ \\ \\ \\ \\ 1.9 \\ \\ $	- - - - - - - - - - - - - -	$\begin{array}{c} 2.67\\ 1.6\\ 1.9\\ 1.51\\ 1.2\\ 0.53\\ 1.39\\ 3\\ 3\\ 2.25\\ 0.97\\ 0.89\\ 0.93\\ 0.89\\ 1.2\\ 1\\ 1.9\\ \end{array}$
CH 291 CS 201 CS 291 ES 101 ES 191 ES 201 ES291 HU101 HU181 M 101 ME 101 ME 101 ME 101 ME 192 ME 201 ME 201 PH-101	2.67 1.6 1.9 1.51 1.87 0.61 2.18 - 2.3 1.38 1.33 1.12 1.33 1.71 1.5 2.85	1.78 1.6 1.9 1.32 1.73 0.65 2.03 - 1.53 0.97 0.89 1.05 0.89 1.71 1 1.9	- 1.6 1.9 - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - 2 -	3 2.67 - - - - 3 - - - - - - - -	- 1.78 - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	1.78 1.6 1.9 0.57 1.6 0.38 1.87 3 - - 1.28 - 1.92 -	1.78 1.6 1.9 1.32 0.8 0.38 0.93 3 0.77 0.48 - 0.47 - 1.28 1		$\begin{array}{c} 2.67\\ 1.6\\ 1.9\\ 1.51\\ 1.2\\ 0.53\\ 1.39\\ 3\\ 3\\ 2.25\\ 0.97\\ 0.89\\ 0.93\\ 0.89\\ 1.2\\ 1\end{array}$

PSO Attainment Record of 1st Year Course					
Course Code	PSO-1	PSO-2	PSO-3		
	Academic Year	2019-20			
BS-CH-201	-	-	-		
BS-CH-291	-	-	-		
BS-M 201	2.33	-	-		
BS-M-101	1.07	-	-		
BS-PH101	-	-	-		
BS-PH191	-	-	-		
ES-CS201	2	1.67	1		
ES-CS291	2	1	1		
ES-EE-101	-	-	-		
ES-EE-191	-	-	-		
ES-ME-192	-	-	-		
ES-ME-291	-	-	-		
HM-HU201	-	-	-		
HM-HU291	-	-	-		
Direct Attainment	1.85	1.34	1		
	Academic Year		I		
BS-CH-201	-	-	-		
BS-CH-291	-	-	-		
BS-M-101	1.9	-	-		
BS-M201	1.24	-	-		
BS-PH101	-	-	-		
BS-PH191	-	-	-		
ES-CS201	2	1.67	1		
ES-CS291	1.27	0.63	0.63		
ES-EE-101	-	-	-		
ES-EE-191	-	-	-		
ES-ME-192	-	-	-		
ES-ME-291	-	-	-		
HM-HU201	-	-	-		
HM-HU291	-	-	-		
Direct Attainment	1.59	1.12	0.80		
	Academic Year	2017-18			
CH 201	-	-	-		
CH 291	-	-	-		
CS 201	1.07	0.89	0.53		
CS 291	1.27	0.63	0.63		
ES 101	-	-	-		
ES 191	-	-	-		
ES 201	-	-	-		
ES 291	-	-	-		
HU 101	-	-	-		

HU 181	-	-	-
M 101	1.53	-	-
M 201	0.97	-	-
ME 101	-	-	-
ME 192	-	-	-
ME 201	-	-	-
ME291	-	-	-
PH-101	-	-	-
PH 191	-	-	-
XC 181	-	-	-
Direct Attainment	1.2	0.73	0.57

8.5.2 Actions taken based on the results of evaluation of relevant POs (5)

(The attainment levels by direct (student performance) are to be presented through Program

level Course-PO matrix as indicated)

PO Attainment Levels and Actions for improvement – CAYm1 – Mention for relevant POs

POs Attainment Levels and Actions for Improvement- (2019-20)

POs	Target Level	Attainment Level	Observations		
PO1: Statement as mentioned in Annexure I					
PO1	2.04	2.41	Target Achieved.		
Action 1: Target achieved. Hence the attainment for the current academic year is fixed as Target for					
	xt academic year.				
PO2:	Statement as mo	entioned in Annexu	re I		
PO2	1.80	2.14	Target Achieved.		
	n 1: Target achieve xt academic year.	d. Hence the attainmer	t for the current academic year is fixed as Target for		
PO3:	Statement as mo	entioned in Annexu	re I		
PO3	2.45	3	Target Achieved.		
	n 1: Target achieve xt academic year.	d. Hence the attainmer	t for the current academic year is fixed as Target for		
PO4:	Statement as m	entioned in Annexu	re I		
PO4	1.90	3	Target Achieved.		
	1: Target achieve achieve achieve academic year.	d. Hence the attainmen	t for the current academic year is fixed as Target for		
PO5 :	Statement as mo	entioned in Annexu	re I		
PO5	1.95	2.80	Target Achieved.		
Action 1: Target achieved. Hence the attainment for the current academic year is fixed as Target for the next academic year.					
PO6: Statement as mentioned in Annexure I					
PO6	2.18	3	Target Achieved.		
Action 1: Target achieved. Hence the attainment for the current academic year is fixed as Target for the next academic year.					

PO7:	Statement as me	entioned in Annexu	re I
PO7	2.24	2.50	Target Achieved.
Action	1: Target achieve	d. Hence the attainment	nt for the current academic year is fixed as Target fo
the nex	t academic year.		
PO-8:	Statement as m	entioned in Annexu	ıre I
PO8	3	3	Target Achieved.
	1: Target achieve t academic year.	d. Hence the attainmen	nt for the current academic year is fixed as Target for
PO9: \$	Statement as mo	entioned in Annexu	re I
PO9	2.04	2.39	Target Achieved.
	1: Target achieve t academic year.	d. Hence the attainmen	nt for the current academic year is fixed as Target for
PO10:	Statement as n	nentioned in Annex	ure I
PO10	1.80	1.95	Target Achieved.
	1: Target achieve t academic year.	d. Hence the attainmen	nt for the current academic year is fixed as Target for
PO11:	Statement as n	nentioned in Annex	ure I
PO11	2.1	3	Target Achieved.
	1: Target achieve t academic year.	d. Hence the attainmen	nt for the current academic year is fixed as Target for
PO12 :	Statement as n	nentioned in Annex	ure I
PO12	1.88	2.15	Target Achieved.
	1: Target achieved t academic year.	d. Hence the attainmer	nt for the current academic year is fixed as Target for

POs Attainment Levels and Actions for Improvement- (2018-19)

POs	Target Level	Attainment Level	Observations				
PO1:	PO1: Statement as mentioned in Annexure I						
PO1	1.80	2.04	Target Achieved.				
Action	1: Target achieve	d. Hence the attainmer	nt for the current academic year is fixed as Target for				
the nex	kt academic year.						
PO2:	Statement as m	entioned in Annexu	re I				
PO2	1.80	1.73	Target not Achieved.				
Action	1: Target will be	retained and will be ob	served for next academic year				
Action	2: FSP on aptitud	in problem solving abil e skills were conducted entioned in Annexu	1.				
PO3	1.80	2.45	Target Achieved.				
			t for the current academic year is fixed as Target for				
	t academic year.	a. Hence the attainment	a tot ale canone academic your is inved as funget for				
PO4:	PO4: Statement as mentioned in Annexure I						
PO4	1.80	1.90	Target Achieved.				

	next academic yea		nt for the current academic year is fixed as Target
		entioned in Annexu	re I
PO5	1.80	1.95	Target Achieved.
Action	1: Target achieve	d. Hence the attainmer	nt for the current academic year is fixed as Target for
	t academic year.		, Ç
PO6:	Statement as m	entioned in Annexu	re I
PO6	1.80	2.18	Target Achieved.
Action	1: Target achieve	d. Hence the attainment	nt for the current academic year is fixed as Target for
the nex	t academic year.		
PO7:	Statement as m	entioned in Annexu	re I
PO7	1.80	2.24	Target Achieved.
Action	1: Target achieve	d. Hence the attainment	nt for the current academic year is fixed as Target fo
the nex	t academic year.		
PO8: \$	Statement as m	entioned in Annexu	re I
PO8	1.80	3	Target Achieved.
		d. Hence the attainment	nt for the current academic year is fixed as Target for
the nex	t academic year.		
PO9: 8	Statement as m	entioned in Annexu	re I
PO9	1.80	2.04	Target Achieved.
	1: Target achievent academic year.	d. Hence the attainment	nt for the current academic year is fixed as Target fo
PO10:	Statement as n	nentioned in Annex	ure I
PO10	1.80	1.63	Target not Achieved.
Action	1: Target will be	retained and will be ob	oserved for next academic year
Action	2: FSP on Comm	unication and other so	ft-skills were conducted.
PO11:	Statement as n	nentioned in Annex	ure I
PO11	1.80	3	Target Achieved.
Action	1: Target achieve	d. Hence the attainment	nt for the current academic year is fixed as Target for
	t academic year.		
PO12:	Statement as n	nentioned in Annex	ure I
PO12	1.80	1.88	Target Achieved.
Action	1: Target achieve	d. Hence the attainmer	nt for the current academic year is fixed as Target for
the nex	t academic year		

POs Attainment Levels and Actions for Improvement- (2017-18)

POs	Farget Level	Attainment Level	Observations				
PO1: 5	PO1: Statement as mentioned in Annexure I						
PO1	1.80	1.80	Target Achieved.				
for the	Action 1: Target achieved. Hence the attainment for the current academic year is fixed as Target for the next academic year. PO2: Statement as mentioned in Annexure I						
PO21.801.43Target not Achieved.							
	PO2 1.80 1.43 Target not Achieved. Action 1: Target will be retained and will be observed for next academic year To Improve analytical thinking skills in first year engineering subjects following steps were taken.						

Action 2: Lectures plans for the coming semester were modified to incorporate more tutorial classes

. 1 1	.1 • 1 •	11 1 1 11			
		n problem solving abil e skills were conducte			
PO3: Statement as mentioned in Annexure I					
PO3	1.80	1.75	Target not Achieved.		
Action 1	: Target will be 1	retained and will be ob	served for next academic year		
Action 2	: FSP on C Prog	ramming were done w	ith more emphasis on real life problem solving and		
	nent of solution t				
PO4: St	atement as men	tioned in Annexure I			
PO4	1.80	1.90	Target Achieved.		
	: Target achieve ext academic yea		nt for the current academic year is fixed as Target		
PO5: St	atement as men	tioned in Annexure I			
PO5	1.80	1.95	Target Achieved.		
Action 1	: Target achieve	d. Hence the attainmer	nt for the current academic year is fixed as Target		
	ext academic yea				
PO6: St	atement as men	tioned in Annexure I			
PO6	1.80	2.92	Target Achieved.		
Action 1	: Target achieve	d. Hence the attainmer	nt for the current academic year is fixed as Target		
	ext academic yea				
PO7: St	atement as men	tioned in Annexure I			
PO7	1.80	2.59	Target Achieved.		
			nt for the current academic year is fixed as Target		
	ext academic yea				
		tioned in Annexure I			
PO8	1.80	3	Target Achieved.		
for the n	ext academic yea	ır.	nt for the current academic year is fixed as Target		
PO9: St	atement as men	tioned in Annexure I			
PO9	1.80	1.90	Target Achieved.		
	U U		nt for the current academic year is fixed as Target		
	ext academic yea				
	tatement as me	ntioned in Annexure	I		
PO10	1.80	1.51	Target not Achieved.		
	-		served for next academic year		
			ft-skills were conducted.		
		ntioned in Annexure			
PO11	1.80	3	Target Achieved.		
	U U		nt for the current academic year is fixed as Target		
	ext academic yea		I		
		ntioned in Annexure			
PO12	1.80	1.68	Target not Achieved.		
	-		oserved for next academic year		
			ological trends were conducted. MOOCS courses and for this MOOCS Baskets are		
		mong the students.	and the first states and for this models baskets an		

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9.0 STUDENT SUPPORT SYSTEMS (50)

9.1 Mentoring system to help at individual level (5)

MENTORING SYSTEM

Mentoring immensely contributes in improvement of the overall academic and personal development of students. The students are greatly benefitted by incessant proficient guidance of mentors. Each faculty member acts as mentor with a group of 20 mentees preferably.

Roles & Responsibilities of Mentor

All the mentors perform the following roles in mentorship process:

- Gaining the Trust: All the mentors work hard to gain the trust of their mentees with effective mentoring.
- Documents and Records Keeping: Mentors keep key documents (Academic Testimonials, MAR Documents, Mentee's personal details etc.) required for effective mentoring.
- 3) Continuous Meet: All mentors hold a meeting regularly or as when required with all of his/her mentee. Reports in this regard are made and kept by mentors for experiencing effective mentorship with personal and professional issues such as attendance in theory & laboratory classes, MAR Point earned, NPTEL/Coursera/MOOCs completion etc.
- 4) Alerts and Reminders: Mentors play the important role of an efficient disseminator with respect to any kind of notices (form fill-up, data update, examination etc.), information about events, competitive areas, skill development modules etc.
- 5) Help and Support: Mentors always help the mentee in gaining all kinds of benefit like Scholarship, Books, Notes etc.

- 6) Ethical Shield to the Mentee: Mentor act like an ethical shield to mentee for his/her safeguard towards any kind of undesirable and unproven offence.
- **7) Motivator**: Mentor always motivates his/her mentee to be very competitive and win the show whether its academic, sports, cultural etc.
- 8) Mentor as Friend and Family: All the mentors go beyond the level from a faculty to Friend and Family zone under pleasant environment and maintain the healthy relationship with their mentee. For getting deeper in this section acts like wishing of birthday, greeting to different occasions, festivals and achievements, suggestions about movies, songs, books, shows etc. helps.
- **9) Compliance:** Mentors sportingly comply to data demanded like MAR documentation, Mentorship Portal Report etc.

<u>University Guideline for Mentorship:</u>

Guidance & Counselling is part & parcel of educational excellence. Maulana Abul Kalam Azad University of Technology, West Bengal having 194 affiliated Institutes/Colleges offering UG/PG Programmes in Engineering / Technology / Architecture / Pharmacy / Management / Computer Application / Hotel Management & Catering Technology / Applied Sciences / Professional Courses is the nodal University in the state of West Bengal having largest number of affiliated Colleges / Institutes on its roll.

The University has taken the initiative to start the Mentoring Process to the students under its umbrella as a policy of the present State Government to achieve excellence by the students studying in West Bengal.

Maulana Abul Kalam Azad University of Technology, West Bengal requests all stakeholders and the Head of the affiliated Institutes to start Mentorship with immediate effect as a model compulsorily from July 2018.

We solicit kind co-operation of all Trust / Society / Institutes under its affiliations. Modification / Suggestions are most welcome to make this Mentoring Exercise at par with the world's best educational Institutes.

Mentorship Committee:

A Mentorship committee to govern the activities of the mentors is in place. Structure and functions for the same is given below:

Committee	Structure	Function	Frequency
Mentorship	a) Coordinator – One	a) To allocate the	(a) The Mentorship
Committee	Senior Faculty	mentor-mentee.	Committee shall meet
	Member	b) To provide necessary	as often as may be
	b) Members – One	suggestion for	necessary but not less
	faculty member from	mentorship for each	than two times during
	each department	department.	a semester.
		c) To perform as bridge	(b) Coordinator may
		between Institute and	convene a meeting as
		University regarding	and when she/he
		mentorship functioning	deems fit without any
		& circulation of	prior notice.
		information.	
		d) To report academic	
		committee about the	
		mentorship status of the	
		institute.	

Proforma for Mentorship: The proforma for mentorship is divided into two parts

Part – A: Students' Profile

1. Name of the Student:

Mobile No.:

2. Programme of Study:

Academic Year of Admission:

Department:

University Registration No.:

3. Father's Name:

Educational Qualification:

AEC/CSE/NBA - 2022

Email Id:

Subjects % of Marks Obtained	
a) Education Board:	
Address / Place:	
Name of the School:	
 Previous Academic Details: Madhyamik/ 10th Standard: 	
Details of Paying Guest/Mess/Rented-House	:
6. Hostel Information:	
Chronic Health Problem:	
Major Health Problem:	
Allergic to:	
Identification Marks:	
Weight: Blood Group:	Veg/Non-Veg:
5. Medical History	
Annual Income:	
Occupation:	
Mobile No.:	Email Id:
Educational Qualification:	
4. Mothers Name:	
Annual Income:	
Occupation:	
Fathers Mobile No.:	Landline No.:
Fathers Home Address:	

Overall % of Marks:

b) Higher Secondary/ 12th Standard

Attributes	Theory Papers	Practical Papers
Subjects		
% of Marks Obtained		

Overall % of Marks:

Rank in WBJEE/JEE(Main)/ JELET:

c) Any other degree/diploma

Name of the Course	Discipline/ Subjects	% of Marks Obtained

8. Hobbies / Interest in Extra-Curricular Activities:

- 9. Awards /Prizes (if any) received in academic and extra-curricular activities prior to admission in this Institute:
- a. Final Year Project: Name of Guide: Title of Project:
- b. Placement: Name of the Company: Salary Offered:

Part – B: Student's Performance Assessment

Course Name:

Year:

Discipline:

Semester :

Assessment Parameters	Outstanding O (90-100)%	Excellent E (80-89)%	Very Good A (70-79)%	Good B (60-69)%	Average C (50-59)%	Poor D (40-49)%	Corrective Measures & Assessment Thereof
Attendance (Theory)							
Attendance (Lab)							
Academic Performance (Theory)							
Academic Performance (Lab)							
Understanding / Communication In English							
Speaking/ Presentation Skill							
Writing Skill							
Technical Skill in Lab/ Project							
Performance in Extra Curricular Activities		2					
Team Building/Leaders hip		2					
Physical Health							
Mental Health					Ĵ.		
Overall Behaviour/ Attitude (Personality)							

Please put tick mark ($\sqrt{}$) parameter wise.

Name of the Mentor:

Signature:

Date:

Proforma for Mentorship Report for Mentorship Portal at MAKAUT

Parameters	Details	Input
Student Name		
Student Roll No.		
Name of the Mentor attached		
Stream		
Semester		
Students' attendance (%)		
Any unusual behaviour of the student (due to any problem) [No or any personal problem /Silently noticed by the mentor]		
Characteristic behaviour of the student [Very clam/ cool/ extrovert/introvert/ jolly/ Keeps aloof from others/ moves alone/always smiling/ very serious look/ always keeps friends around / any other]		
Involvement in extra circular activity or passing of free time	Games [To be specified (i.e., football/ cricket/volley/T.T./Carom/ etc)] Sports [Specific event should be mentioned, (sprint/ Long distance runner/Jumper/ any other event)] Music [Vocal/ Instrumental] Dance [Bharat Natyam/ kathak/ Kunchipuri/ Creative etc.] Passing free time by Watching T.V. or busy with mobile or any other	
Participation in outreach programme [Social activity outside the campus/ blood donation camp/ activity related to science and environment outside the campus/ Any other activity of social value outside the campus.]		
Effort for career development [MOOCS/ Skill Development / any other]		

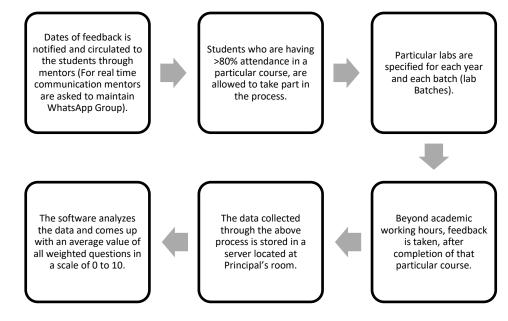
	English [Fluent/ Stammering/ Fumbles]	
Communication pattern	Bengali [Fluent/ Stammering/ Fumbles]	
_	Hindi [Fluent/ Stammering/ Fumbles]	
Health Issue	Height (Cm)	
Health Issue	Weight (Kg)	
	Blood Group	
Physical health	Normal or challenged	
	Eye Spect with spot or without	
Mental Health [Very nervous / cool & calm / takes everything sportingly/ gets upset very quickly/ nothing believes easily / trusts everybody / trusts nobody / others]		
Any other facet felt by the mentor to be of worth mentioning		
Comment of the Mentor		

9.2 Feedback analysis and reward /corrective measures taken, if any (10)

The institute has a well-defined process for feedback collection with respect to all the courses. The following process is practiced by the institution in this regard:

Average percentage of students who participated: >75%

Feedback collection process



Basis of reward/corrective measures:

Feedback forms are evaluated by software. Academic Committee manually analyses the result given by the software and indicate each Faculty member as "E" (Excellent), "V" (Very Good), "G" (Good) and "F" (Fair), respectively. Inference is drawn from the matrices.

Grade	Scale
Excellent (E)	Total points obtained > 8.99
Very Good (V)	Total points obtained > 7.99 but < 9
Good (G)	Total points obtained > 6.99 but < 8
Fair (F)	Total points obtained < 7

Suggestions for the improvements are given to the faculty members scored 'F' in the feedback process.

Based on overall points obtained through feedback process, administrative activities and other research credentials, name of one faculty member from each department are sent for inter-institute award competition like JIS Samman etc.

Indices used for measuring quality of teaching & learning

Asansol Engineering College Vivekananda Sarani, Kanyapur, Asansol, Dist. Burdwan, Pin - 713305

STUDENT FEEDBACK

(TO BE FILLED FOR THE CURRENT SEMESTER)

FACULTY NAME	SOUMEN CHAN	AK					
SUBJECT CODE	ES201	NAME OF THE	SUBJECT	BASIC ELECTRICAL & ELECTRONICS ENGG II			
DEPARTMENT	COMPUTER SCI	ENCE & ENGINEERING1					
SEMESTER	2	SESSION		2016-17			
	Please se	elect the appropriate op	tion for rating				
1 Does the Teacher of	come well prepared fo	or the class?	Always C So	metimes C Never C			
2 The teacher's Engl	ish presentation and	teaching skills are:	Good C Satis	sfactory C Unsatisfactory C			
3 Does the faculty pr whenever required	ovide assistance bey I?	ond routine hours,	Usually C So	metimes C Rarely C			
4 Presentation of Te Blackboard is:	acher by using LCD P	rojector and/or	Clear C Satis	sfactory C Shabby C			
5 Does the teacher a questions you have	llow you to ask quest asked?	tions and answers the	Always C Ave	oid C Never C			
6 Does the teacher r to the topic of disc	evise and ask questio ussion?	ons which are relevant	Always C Ra	rely C Never C			
7 Does the teacher g examination problem		es and solve previous	Always C Rarely C Never C				
8 Does the teacher a Laboratory related	ssist you in the Labor problems in the class	ratory and solve s?	Always C Rai	rely C Never C			
9 Does the teacher g assignments?	ive assignments and	check the	Always C Sometimes C Never C				
10 Does the teacher of time ?	ome to the class on ti	me and take full class	Always C Som	netimes C Never C			
11 Does the teacher is outside the class?	nore the acts of indis	scipline in the class and	Never C Alwa	ys C Sometimes			
12 How does the teach assessment (test)	hers' assessment of y books?	our internal	Balanced C St	trictly C Erratically C			
13 Does the teacher fa	vour some group of s test books and regar	students while ding other issues?	Yes C No C				
14 Does the teacher d	ictate notes in the cla	iss?	No C Yes (<2: 50%) C Yes (>	5%) C Yes (Between 25- 50% time) C			
15 Any additional info	rmation you wish to a	add about your teacher					

SUBMIT RESET

Fig: 9.2.1 Screen Shots of the Questions asked in student feedback of a Particular course

Summary of the index values for all courses/teachers



MIS (NEW FORMAT): FAS-II

ASANSOL ENGINEERING COLLEGE SUMMARY OF FACULTY APPRAISAL FROM STUDENTS FEEDBACK (EVALUATION SHEET) (ON OVERALL BASIS)

SEME	STER EVEN ACADEMIC	YEAR	2020-21
SL.NO.	Name Of Faculty	Total Number Of Participants	Total Average
1	ABHIJIT DEBNATH	119	8.8
2	AMARTYA ROY	113	8.2
3	ANIMESH UPADHYAY	124	8.7
4	ARNAB BANDYOPADHYAY	125	8.75
5	ASIT GUPTA	79	8.19
6	AVIK DE	98	8.39
7	BIDISHA BANERJEE	121	7.89
8	BISWAJIT MAITY	65	8.18
9	DEBJANI CHATERJEE	124	8.0
10	GAURAV YADAV	34	8.62
11	GOURISANKAR PANDA	78	8.12
12	HARSHA KUNDU	68	7.87
13	HIRAK GUPTA	87	7.73
14	JOYSHREE MAJI	80	8.46
15	KAUSOMBI CHOUDHURY	135	7.76
16	KRISHNENDU BANERJEE	55	8.49
17	KRISHNENDU KUMAR POBI	154	7.5
18	MITHU DEY SARKAR	123	8.05
19	MUN MAJUMDER	128	7.75
20	PARTHA MUKHOPADHYAY	108	7.9
21	PARTHA PARICHA	84	7.93
22	PINAKI RANJAN DUARI	118	7.85
23	PRIYANKA KANJILAL	108	7.95
24	RANJITA SINHA	66	7.5
25	ROBIN KUMAR AGARWAL	65	8.1
26	SAMIR DEY	189	7.59
27	SAMIRAN GUPTA	63	7.83
28	SANDIP HALDAR	105	8.51
29	SANTANU BERA	124	7.93
30	SATYENDRA KUMAR SRIVASTAV	83	8.11
31	SOMDEV DAS	52	8.63
32	SOURAV DE	55	8.67
33	SUDHANGSHU CHAKRABORTY	92	8.31
34	SUJOY DAS MAHAPATRA	42	7.94

35	SULOGNA NAYAK	56	8.25

Number of corrective actions taken: In the year 2020-21, faculty members who scored low in feedback were advised for the improvement.



MIS (NEW FORMAT): FAS-II

ASANSOL ENGINEERING COLLEGE SUMMARY OF FACULTY APPRAISAL FROM STUDENTS FEEDBACK (EVALUATION SHEET) (ON OVERALL BASIS)

SEME	STER EVEN	ACADEMIC YE	AR	2020-21
SL.NO.	Name Of	Faculty	Total Number Of Participants	Total Average
1	ABHISHEK BANDHY	OPADHYAY	58	8.15
2	ANUP MUKHOPADHY	ΆΥ	52	7.8
3	AVISHEK BANERJEE		62	8.0
4	BIPLAB MANDAL		54	8.41
5	DEBABRATA MAITY		56	8.31
6	DEBASIS CHAKRABO	DRTY	21	8.2
7	KINSHUK BANERJEE		56	8.10
8	LUMBINI BHAUMIK		96	7.95
9	MONISH CHATTERJE	E	58	8.12
10	PINTU PAL		61	8.40
11	PRANABES GANGOP	ADHYAY	64	8.50
12	RINKU DATTA RAKS	HIT	58	8.62
13	SABYASACHI MUKHI	ERJEE	58	8.1
14	SANDIP ROY		66	8.31
15	SHATABDI SAHA		44	7.98
16	SHIBSANKAR BALA		56	8.04
17	SIMANTA HAZRA		55	8.58
18	SUBHAS CHANDRA I	NATH	45	8.68
19	SUJOY KUMAR BASU	J	68	8.66
20	TAPAN DAS		62	8.49
21	UDDALOK SEN		67	8.25
22	UJJWAL KAMILA		64	8.85
23	VEDATRAYEE CHATT	ERJEE	66	8.52

Number of corrective actions taken: In the year 2020-21, faculty members who scored low in feedback were advised for the improvement.

9.3 Feedback on facilities (5)

For collection, disbursement and analysis of feedback forms on facilities once in a year basis a committee is formed every year.

Committee	Structure	Function	Frequency
Feedback	a) Chairperson –	a) To disburse the	Once in a year (After
Committee	Administrator	feedback forms among	the end of even sem)
	b) Coordinator – One	students	
	senior faculty member	b) To collect and	
	c) Members – One TA	analyse the feedback	
	from each department	on facilities	
		c) To suggest	
		necessary actions	
		based on feedback	
		collected on facilities	

Sample Form for Feedback on Facilities

Feed	back o	n faci	lities								
Email address *						S departm Ves No	ent will pro	vide industri	al training /i	nternship to	the students? *
						Rate on us	e of ICT in t	he class roo	m. *		
							7	2	э	4	5
You are a *							0	0	0	0	0
 Alumni 	6					Is Departm students?		e will provid	e training re	lated to cam	pus drive to the
Batch (e.g. Your answe	. 2016-2020) r					O Ves O No					
Rate on th	e Laboratory	Facilities ar	nd use in EC	E Departme	nt. *	Is Departm students?		vide training	related to C	Competitive	Examinations to the
	1	2	з	4	5	O No					
	0	0	0	0	0						
						Overall rat	e on depart	mental facili	ties."		
Rate on th	e access of I	Book-bank F	acilities/ Lib	orary Facilitie	es in ECE Department.		ı O	2		•	s O
	1	2	з	43	5	_					
		0	0	0	0	Submit					

Different facilities for which feedback are taken from students:

- i) Canteen
- ii) Hostel
- iii) Emergency Transport
- iv) Gym, ATM & Banking Facilities
- v) Medical Facilities

vi) Library
vii) Mentorship
vii) Extra-Curricular Activities
ix) Class Room
x) Lab

Basis for corrective actions: In any parameters mentioned above, if average score obtained is less than 50%, actions may be triggered as per the requirement.

9. 4 Self-Learning (5)

Self-learning, which is a personalized method of learning, is the new paradigm for the 21st Century. The learner is free to choose what to learn, how to learn, when to learn and where to learn. With the advancement of information and communication technology, the learner is getting familiarized with more and more to non-formal mode of education thereby shifting the preference to self-learning methods. Self-learning modules and materials make this learning process in our institute more effective.

Facilities for self-learning:

- Wi-fi enabled Campus
- Internet connectivity
- Exclusive internet/virtual laboratory for students
- Well-equipped central library
- Digital Library
- Library on Wheels
- Web based learning
- Free and open learning environment
- Video Lecture Bank (Prepared by Faculty Members of Institute)
- Seminar/Webinar organized by Institution for self-learning purpose.

Materials for self-learning / extramural learning:

- CDs of Video Lectures
- COURSERA

- NPTEL (MOOCS) courses
- IEEE on line journals
- Open access central library with 66074 (No of Title: 7158) books and 190 journals (Online). Departmental Library with reference books related to the departmental program.
- Course specific lecture materials are available in the departmental homepage of the institute website & in Video Lecture Bank.
- Open and free environment students are free to interact with faculty at any point of time regarding queries, references, etc.
- Video recording of specific courses (such as, control system engineering, power electronics, electronic circuits, circuit theory) delivered by IIT Faculty members under NPTEL (SWAYAM) project of MHRD. The institute is a local chapter of NPTEL (SWAYAM). Most of the video lecture of the faculty members from different IITs and IISc are made available to our students.

Sample Certificates



9.5 Career Guidance, Training, Placement (10)

Training and Placement has been the cornerstone of the best practices adopted by the College since inception. The quality and volume of placements achieved by the students of the College have attracted talented fresh entrants and the achievements may be safely attributed to sound academics imparted by the faculty, wholistic training designed in close collaboration with Industry and incessant innovation of the placement team towards attracting companies from near and far.

The execution revolves around a two-tier approach where Training and Placement Office works in tandem with Departmental Teams to create the right mix of Industry Relations and Academic Feedback.

<u>The Training and Placement Office</u> does a thorough market research on one hand and on the other hand closely monitors the student training needs. The key functions of the Office are as enumerated below:

- i) Relationship Management with companies already recruiting from the College.
- ii) Prospecting new companies for Placements and Internships.
- ü) Understanding training need and accordingly arranging summer/winter trainings in various Industries, FSPs, Seminars/Webinars, etc.
- iv) Actively participating in various Industry Associations and Forums to gain insights, initiate collaborations to create internship opportunities & MoUs, etc.
- v) Interacting with students and build exposure on Industry expectation for better employability.

<u>The Departmental Teams</u> were formed with an initial objective to create the last mile connectivity with students and keep track of strengths and weaknesses of individual student. The departmental teams also ensured seamless communication with students on all happenings and thereby ensure active participation of the students in every programme. The key functions are as enumerated below:

- i) Sharing recruitment notifications and ensure participation of the eligible candidates
- ii) Keeping track of placed candidates and collecting Offer letters in coordination with them.
- iii) Supporting T&P Office to identify training needs of the students and contribute in fixing the training calendar.

- iv) Encouraging students with aspiration for higher studies to declare the same as per placement policy and keeping a track of the same.
- v) Close coordination with T&P Office for smooth execution of all T&P agendas.

FINISHING SCHOOL PROGRAM

The Finishing School Programme as the name suggests was designed to close the gap between Industry expectations and the aspiring candidate's employability status.

The programmes try to cover key areas which correlate to how Industry evaluates freshers like Aptitude test skill development, competitive coding skills, soft skills, etc.

The other aspect of the programme is to provide job aspirants opportunity to acquire differentiated skill sets to stay ahead in competition like....

The programmes are rolled out through a rigorous stepwise process which involves:

- 1. Skill gap identification
- 2. Course structure formulation
- 3. Faculty selection
- 4. Course co-ordination team formation
- 5. Infrastructure readiness check
- 6. Notification and roll-out
- 7. Feedback

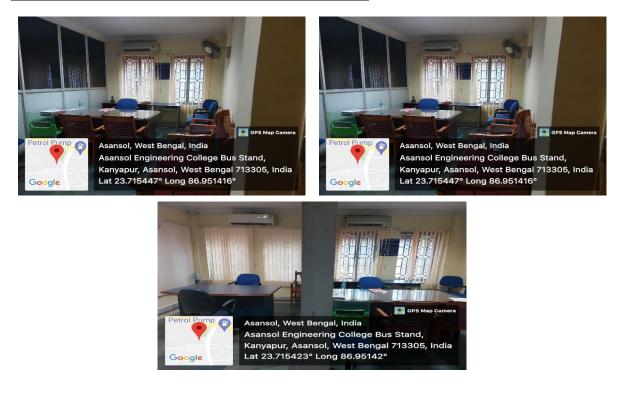
List of Committee Members of Training & Placement Cell:

Session 2021-22

Mrs. Debika Chatterjee	Training & Placement Officer
Mr. Banty Banerjee	Assistant Training & Placement Officer
Mr. Amit Kumar Rai - ECE	Member
Mr. Swarup Mukherjee - ECE	Member
Mrs. Sumita Bhattacharya - ECE	Member
Mr. Pranabesh Ganguly - CSE	Member
Mr. Rajat Ghosh - CSE	Member

Mr. Anish Deb - ME	Member
Mr. Swarnendu Pal - ME	Member
Mr. P. Krishna Rao - ME	Member
Mr. Faiyaz Ansari - ME	Member
Mr. Victor Das - IT	Member
Mr. Amitava Roy - IT	Member
Mr. Sumit Singha - CA	Member
Mr. Sourav Gayen - CA	Member
Mrs. Lipika Mondal - AEIE	Member
Mr. Joydeep Kundu - AEIE	Member
Dr. Apurba Chatterjee - EE	Member
Mr. Rakesh Ghosh - EE	Member
Miss Shreyasee Sanjay - CE	Member
Mr. Sujit Kishore Chakraborty - CE	Member

Training & Placement/Career Guidance Cell



List of Events conducted against Pre-placement Training:

	List of Pre-Placement Training Activities									
	Academic Year: 2020-21									
Sl. No	Training Dates	Training Activity	No of Participants	Year / Semester	Stream	Resource Person				
1	12.04.21 - 01.05.21	Full Stack Development	305	Final Year/ 7th & 8th Sem (2021 Batch)	CSE, IT, ECE	Mr. Chandan Mukherjee (Totsol Technologies)				
2	26.07.21 - 31.07.21	PLC	26	Final Year/ 7th & 8th Sem (2021 Batch)	AEIE	Mr. Joydeep Nath, (Micropro)				
3	23.07.21 - 29.07.21	Ansys Software	107	Final Year/ 7th & 8th Sem (2021 Batch)	EE	Mr. Bijoy Nashkar (Ardent Computech)				
4	06.07.21 - 10.07.21	Smart Air Conditioning & Green Building	130	Final Year/ 7th & 8th Sem (2021 Batch)	ME	Dr. Ratan Mondal (Ardent Computech)				
5	05.04.21 - 09.04.21	Estimation	69	Final Year/ 7th & 8th Sem (2021 Batch)	CE	Mr. Anirudha Kundu (Ardent Computech)				
6	28.06.21 - 30.06.21	English Communication	400	1st Year /2nd Sem (2024 batch)	All Btech	Mrs. Arundhati Majumder & Md Shakir (Freelancer)				
7	02.03.21 - 06.03.21	Python	120	2nd year / 3rd Sem (2023 B.Tech)	CSE, IT, ECE	Mr. Joyjit Guha Biswas, (ARDENT Computech Pvt. Ltd)				
8	02.03.21 - 06.03.21	Core Java	98	2nd year / 3rd Sem (2023 B.Tech)	CSE, IT, ECE	Mr. Ayan Roy Mukherjee, (ARDENT Computech Pvt. Ltd)				

9	02.03.21 - 06.03.21	Advanced C	95	2nd year / 3rd Sem (2023 B.Tech)	CSE, IT, ECE	Mr. Arnab Chakraborty, TOTSOL Technologies
10	03.03.21 - 07.03.21	C & Data Structure	95	2nd year / 3rd Sem (2023 B.Tech)	AEIE, EE	Mr. Anindya Banerjee, TOTSOL Technologies
11	05.04.21 - 09.04.21	AutoCad	51	2nd year / 3rd Sem (2023 B.Tech)	CE	Ms. Sweta Singh Chowdhury, (Amity Computer Academy)
12	27.01.21 - 02.02.21	ML Using Python Phase 1	85	3rd Year / 5th Sem (2022 Batch)	CSE, IT, ECE & AEIE	Mr. Arnab Chakraborty (TOTSOL Technologies)
13	27.01.21 - 02.02.21	Advanced Java Phase 1	135	3rd Year / 5th Sem (2022 Batch)	CSE, IT, ECE & AEIE	Mr. Ayan Roy Mukherjee, (Micropro)
14	27.01.21 - 02.02.21	Java Script Phase 1	165	3rd Year / 5th Sem (2022 Batch)	CSE, IT, ECE & AEIE	Mr. Chandan Mukherjee, (TOTSOL Technologies)
15	19.04.21 - 30.04.21	ML Using Python Phase2	85	3rd Year / 5th Sem (2022 Batch)	CSE, IT, ECE & AEIE	Mr. Arnab Chakraborty, (TOTSOL Technologies)
16	02.06.21 - 18.06.21	Advanced Java Phase2	135	3rd Year / 5th Sem (2022 Batch)	CSE, IT, ECE & AEIE	Mr. Ayan Roy Mukherjee, (Micropro)
17	19.04.21 - 30.04.21	Java Script Phase2	165	3rd Year / 5th Sem (2022 Batch)	CSE, IT, ECE & AEIE	Mr. Chandan Mukherjee, (TOTSOL Technologies)
18	19.04.21 - 30.04.21	Advanced C Programming	85	3rd Year / 5th Sem (2022 Batch)	ME & EE	Mr. Arnab Chakraborty, (TOTSOL Technologies)
19	19.04.21 - 30.04.21	C & Data Structure	105	3rd Year / 5th Sem (2022 Batch)	ME, EE & CE	Mr. Arnab Chakraborty, (TOTSOL Technologies)

20	18.02.21 - 27.02.21	Basic Aptitude	515	3rd Year / 5th Sem (2022 Batch)	All Btech	Mr. Mohit Jain, Freelancer
21	12.04.21 - 20.04.21	English Communication	515	3rd Year / 5th Sem (2022 Batch)	All Btech	Mrs Mahua Roy & Mrs Arundhati Majumder
24	05.07.21 - 16.07.21	Python + DBMS	178	3rd Year / 6th Sem (2022 Batch)	ME & EE	Mr. Chandan Mukherjee, (TOTSOL Technologies)
25	18.02.21 - 27.02.21	Company Specific Aptitude	515	3rd Year / 6th Sem (2022 Batch)	All Btech	Mr. Mohit Jain, Freelancer
26	12.04.21 - 20.04.21	Advanced Quants	515	3rd Year / 6th Sem (2022 Batch)	All Btech	Mr. Mohit Jain, Freelancer
27	12.06.21 - 20.06.21	Advanced Coding (TCS Digital Preparation)	515	3rd Year / 6th Sem (2022 Batch)	All Btech	Mr. Gyanendra, (Kodnv Software Solutions.)
28	15.07.20 - 05.08.20	Company Specific Aptitude Preparation	725	Final Year/ 7th Sem (2021 Batch)	All Btech, MCA	Mr. Mohit Jain, Freelancer
29	07.08.20 - 14.08.20	Competitive Coding	725	Final Year/ 7th Sem (2021 Batch)	All Btech, MCA	Mr. Ayan Roy Mukherjee, (Micropro)
30	17.08.22 - 22.08.20	Quantitate Aptitude, Logical Reasoning	725	Final Year/ 7th Sem (2021 Batch)	All Btech, MCA	Mr. Mohit Jain, Freelancer
31	03.08.20 - 04.08.20	VLSI	48	Final Year/ 7th Sem (2021 Batch)	ECE	Dr. Soumya Pandit, M.Sc., M.Tech, Ph.D., MIE (I), SMIEEE, CEng (India)

32	21.06.21 - 24.06.21	-	ramming Concept g Pseudo Code	400		/2nd Sem (2024 batch)	All Btech	Saikat Ch	dya Banerjee (Totsol Technologies), nakraborty, (Freelancer), Debojyoti er (ARDENT Computech Pvt. Ltd)
33	08.07.21 - 10.07.21	Basic	c Aptitude	400		/2nd Sem (2024 batch)	All Btech	Mr. Mohi	it Jain & Abhishek Sinha (Freelancer)
34	14.06.21 - 19.06.21	Avail Main	ity, Reliability, lability, ntainability, and ty Engineering	67	-	/ 3rd Sem (2023 B.Tech)	ME		Panja, Jadavpur University, cal Engineering Department
		<u> </u>	1		Academic	Session 2019-20			
Sl. No.	Dates		Training Topic	c	No. of participants	Department	YEA	AR/SEM	Resource Person
1	05-11-2019- 09 2019	-11-	Java		55	CSE + IT	-	'EAR/6TH SEM	Mr. Ayan Roy Mukherjee (Micropro.)
2	05-11-2019- 09 2019	-11-	Python		109	CSE + IT		YEAR/6TH SEM	Mr. Gyanendra (Talentio) Mr. Mahendra (Ardent)
3	05-11-2019- 09 2019	-11-	Advance Coding		59	CSE + IT		YEAR/6TH SEM	Ms. Priyanka (Talentio)
4	15-07-2019- 14 2019	08-	Communication for Business needs		537	All Btech		EAR/2ND SEM	Mr. Mohit Jain and Team (Freelancer)
5	15-07-2019- 14 2019	08-	C Programming		537	All Btech		EAR/2ND SEM	Mr.Ayan Roy Mukherjee (Micropro.)

6	08-07-2019-11-07- 2019	Automobile Training	70	ME	2ND YEAR/4TH SEM	Mr. M. Murugason, Senior Engineer, TVS Training
7	08-07-2019- 13-07- 2019	C & Data Structure	70	ME	1ST YEAR/2ND SEM	Mr.Ayan Roy Mukherjee (Micropro.)
8	17-06-2019 to 27- 06-2019 to 04-07- 2019 & 08-07-2019 to 10-07-2019 & 12- 07-2019 to 16-07- 2019	Java Batch 1	58	CSE + IT	4TH YEAR/8TH SEM & 3RD YEAR/6TH SEM	Mr.Ayan Roy Mukherjee (Micropro.)
9	17-06-2019 to 26- 06-2019 & 28-06- 2019 to 04-07-2019 & 08-07-2019 to 14- 07-2019	Java Batch 2	240	ECE + AEIE + EE + ME + CE	4TH YEAR/8TH SEM & 3RD YEAR/6TH SEM	Mr.Ayan Roy Mukherjee (Micropro)
10	17-06-2019 to 04- 07-2019 & 08-07- 2019 to 14-07-2019	Advance Coding	77	CSE + IT	3RD YEAR/6TH SEM	Mr. Gyanendra Talentio
11	17-06-2019 to 04- 07-2019 & 08-07- 2019 to 14-07-2019	Advance Coding	166	ECE + AEIE + EE + ME + CE	3RD YEAR/6TH SEM	Mr. Arnab Chakraborty (TOTSOL Technologies)
12	17-06-2019 to 22- 06-2019 & 24-06- 2019 to 29-06-2019 & 02-07-2019 to 04- 07-2019 & 08-07-	Cloud Computing	126	CSE + IT + ECE	3RD YEAR/6TH SEM	Mr. Avijit Aich (Ingram Micro)

	2019 & 12-07-2019 to 14-07-2019 & 16- 07-2019 to 17-07- 2019					
13	22,23,24,27,28,29,30 April, 4,5,6 May 2020	Machine Learning using Python	22	MCA	3RD YEAR/6TH SEM	Arnab Ckakraborty, Totsol Technologies

	List of Events Conducted for Higher Studies/Gate Preparation									
	Academic Year: 2020-21									
Criteria	a 9.5 - GATE Training Cond	uction Details								
Sl No	Date	Actvity Details	No. of Participant	Semester	Department	Trainer Details				
1	Aug 2018 - 11, 12, 18, 19,25,26, Sep 2018 - 1, 2	GATE Training	27	5th & 7th	CE	Mr. Tapan Jana(SOM), Freelancer				
2	Feb 2019 - 16,17,23,24, Mar 2019 - 2,3,9,10	GATE Training	21	6th	CE	Mr. Abhishek Roy(FM), Freelancer				
3	Aug 2019 - 17,18,24,25,31, Sep 2019 - 7,8	GATE Training	30	5th & 7th	CE	Mr. Trinanjan Roy (SOM), Freelancer				
4	Feb 2020 - 15,16,22,23,29, Mar 2020 - 1,7,8	GATE Training	18	6th	CE	Mr. Abhishek Roy(FM)				

5	Aug 2020 - 22,23,29,30, Sep 2020 - 12,13,19,20	GATE Training	26	5th & 7th	CE	Mr. Tapan Jana(SOM), Freelancer
6	Feb 2021 - 27, 28, Mar 2021 - 6,7,13,14	GATE Training	15	6th	CE	Mr. Palash Sam (SOM), Freelancer
7	22.08.20 - 23.08.20	GATE Training	26	3rd & 4 th / 5 th & 7th	ME	Mr. Swagata Poria (Mfg),
8	29.08.20 - 30.08.20	GATE Training	26	$3rd \& 4^{th} / 5^{th} \& 7th$	ME	Mr. Swagata Poria (Mfg),
9	12.09.20 - 13.09.20	GATE Training	26	$3rd \& 4^{th} / 5^{th} \& 7th$	ME	Mr. Swagata Poria (Mfg),
10	19.10.20 - 20.10.20	GATE Training	26	3rd & 4 th / 5 th & 7th	ME	Mr. Swagata Poria (Mfg),
11	25.01.21 - 29.01.21	GATE Training	15	$3rd \& 4^{th} / 5^{th} \& 7th$	ME	Mr. Palash Sam (SOM, Design),

				under Career Gu ic Year: 2021-22		
SI. No.	Date	Торіс	No of Participants	Year/Semester	Participants	Resource Person
1	27th October 2021	Python & Robotics	120	4th/7th & 3rd/5th	EE/ME/CE/ECE/AEIE	Mr.Pradip Pramanick (Researcher, Embedded Systems & Robotics TCS Research & Innovation)
2	29th October 2021	Neural Network	80	4th/7th & 3rd/5th	CSE/ECE/IT/AEIE/MCA	Ms.Jayeeta Mondal (Researcher, Embedded Systems & Robotics, TCS Research)
3	18th November 2021	5G Network	100	4th/7th & 3rd/5th	CSE/ECE/IT/AEIE/MCA	Dr. Arpita Sen (Product Manager & Innovation Evangelist TCS)
4	21st December 2021	Computer Vision	120	4th/7th & 3rd/5th	CSE/ECE/IT/AEIE/MCA	Dr. Swapna Agarwal (Scientist at TCS Research & Innovation, Kolkata, India)
	1	<u> </u>	Academi	c Year: 2019-20	1	
1	13th June 2020	Python and it's application in Multi Robot Task Allocation	120	4th/7th & 3rd/5th	Nominated Btech & MCA students	Ms. Marichi Agarwal (TCS)
2	18th June 2020	Cloud infrastructure	100	4th/7th & 3rd/5th	Nominated Btech & MCA students	Mr. Parameshwar Das (TCS)

3	31st August 2019	Interaction with 1st Year students	200	1st Year/1st Sem	CSE, IT, ECE	Mr. Partha Sarkar (Academic Relationship Manager TCS)	
			Academi	c Year: 2018-19			
1	11th January 2019	Data Science	80	4th/7th & 3rd/5th	CSE,IT, ECE, MCA	Mr.Jayanta Adhikary (TCS)	
	Academic Year: 2017-18						
1	27th April 2018	Engineering Applications & IoT	60	4th/7th & 3rd/5th	Nominated B.Tech & MCA students	Mr. Deb Kumar Ghosh (TCS)	
2	24th November 2017	Data Science	45	4th/7th & 3rd/5th	CSE,IT, ECE, MCA	Mr. Jayanta Adhikary (TCS)	
3	28th July 2017	Smart Grid	60	4th/7th & 3rd/5th	Nominated Btech & MCA students	Mr. Subhajit Ghosh (TCS)	

9. 6 Entrepreneurship Cell (5)

Even the greatest minds need a little push. The greatest of businessman (woman) started with help of someone who pushed them to their limits and became their stairway to success. We at ED Cell, Asansol Engineering College, want to do just that. With a mission of bringing likeminded groups of people together and put those ideas or opinions into action & thereby creating a start-up culture. We believe that ideas are more than enough to be a great entrepreneur. Just with some exposure they can be the best of the best. From the inauguration on 24th March, 2015 we are adding stars on our shoulders, touching every day. It is said, hard work bears the tastiest fruits. new heights If we go further the ED Cell was the reason of many successful start-ups like the WEBINGO, RADOBIZ, WITYLITI etc.

ED Cell (Committee)

S. No	Name	Designation & Dept	Post
1	Mr. Soumen Sen	Asst. Prof, ECE	Coordinator
2	Mr. Bhaskar Roy	Asst. Prof, ECE	Asst. Coordinator
3	Mr. Biplab Bhowmick	Asst. Prof, ECE	Treasurer
4	Mr. Manit Mukhopadhyay	Asst. Prof, EE	Member
5	Mrs. Joyshree Maji	Asst. Prof, BS-HU	Member
6	Mr. Ashes Maji	Asst. Prof, ME	Member
7	Mr. Kinshuk Banerjee	Asst. Prof, CSE	Member
8	Mr. Apurba Pal	Asst. Prof, CE	Member
9	Mr. Subham Raj Sharma	Alumni Entrepreneur	Member
10	Mr. Amit Kumar Gupta	Alumni Entrepreneur	Member
11	Mr. Aamir Ismiel	Student	Member
12	Mr. Sudeep Dutta	Student	Member

Functions/Activity of Entrepreneurship Development Cell

- 1. Organize Entrepreneurship Development Programs (EDP) for the students and publics.
- 2. Conduct Entrepreneurship Awareness Camp (EAC) & workshop.
- 3. Conduct Business Plan Competitions.
- 4. Conduct lecturer session of successful entrepreneurs.
- 5. Mentor and assist them, who want to become entrepreneur.
- 6. Organize idea generation workshop

7. Invite speakers from Financial and Venture Capital institutions to enlighten on schemes and assistance existing to promote new ventures.

Serial No.	Event Date	Name of the Event	Number of Participants
		Academic Year: 2019-2020	
1.	15/06/2020	IDEAOLOGY (Business Idea Competition)	19
2.	24/04/2020	E-Quiz	630
3.	23/02/2020	Workshop on web designing	147
4.	31/01/2020	1 dollar venture (Startup Idea Competition)	20
5.	12/11/2019	Seminar on Startup Discussion	50
6.	21/08/2019	Seminar on Start-up club	60
7.	16/08/2019	Idea Workshop	50
		Academic Year: 2018-2019	
1.	29/04/2019 30/04/2019 06/05/2019 07/05/2019	4 days' Workshop on "Website Designing & Web- Page Management".	81
2.	08/03/2019	Seminar on Industry Setup on Govt Policies	53
3.	04/03/2019	Induction Program	211
4.	02/03/2019	ED Cell, AEC started to work at its own workspace (Room No-ME105A)	106
5.	26/10/2018	Entrepreneurship Quiz	36
6.	23/10/2018	Workshop on HTML, CSS & JAVASCRIPT	134
7.	25/09/2018	All EDC members registered themselves for Wadhani Foundation Course (WF100)	122
8.	25/08/2018	Orientation program for newly admitted students	134
	• 	Academic Year: 2017-2018	
1.	16/02/2018	<u>E WEEK-2018:</u> E-TALK	40
2.	15/02/2018	<u>E WEEK-2018:</u> (A) E-Ship Games (B) Event Name-TODAY'S BEST SALESMAN (C) Event Name- Film Fest (Movie on Entrepreneurship)	39 46 35
3.	14/02/2018	<u>E WEEK-2018:</u> Social Entrepreneurship	20
4.	13/02/2018	E WEEK-2018: School Outreach	130
5.	11/02/2018	<u>E WEEK-2018:</u> Technical Workshop "HACKERFUN"	110

List of events conducted by ED Cell, Asansol Engineering College

6.	10/02/2018	<u>E WEEK-2018:</u> (A) Event name– AD MADS (B) Event Name –Workshop on Word Press Blogging.	25 60
7.	08/11/2017	Event Name- IDEA BOX	52
8.	17/10/2017	Seminar on "Successful Entrepreneur Story"	92



Seminar on Start-up club on 21st August 2019



Seminar on "Successful Entrepreneur Story" on 17th October 2017



Workshop on web design on 23rd February 2020



Glimpses of ED-Cell activity till 2020

List of Entrepreneurs from AEC

				AEC Entrepreneurs		
Sl No	Name	Branch/ Batch	Place	Nature of Start-up with authorization number	E Mail ID	Mobile No
1.	Abhishek Khemka	AEIE/2007	Asansol	Hind Oil Industries (GSTIN- 19AFCPK0753R1ZZ)	abhishekkhemka001@gmail.com	8116199991
2.	Sandeep Singh	IT/2013	Giridih	Singh Tele Ventures (SEA1534900008401)sandeep.singh.dua@gmail.com		9709607000
3.	Ankit Kedia	CSE/2014	Asansol	Kedia Electronics (GSTIN: 19BKHPK3460J1ZW)	imankitkedia22@gmail.com	7699996652
4.	Adil Farhan	CE/2019	Mumbai	Business (Al-Rahat Granite) (Reg. No 10ACRPF4907G1ZW)	adilfarhan1998@gmail.com	8825296120
5.	Srijan Mukherjee	ECE/2020	Asansol	Srijan Films India (Reg. No WB23D0000774)	1997srijanmukherjee@gmail.com	9647480475
6.	Subham Raj Sharma	CSE/2021	Asansol	Webingo Infotech Solutions (LLP-IN: AAP-7675, DIN-08495220)	subham.sharma93@gmail.com	7001300600
7.	Amit Kumar Gupta	CSE/2021	Patna	Radobiz Private Limited (CIN No- U92419BR2020PTC047050, DIN – 08806682)	guptaamit950442@gmail.com	9801916625
8.	Md Imran	CSE/2017	Asansol	Elezire Technologies (www.elezire.com) (CIN-U72900JH2017PTC009457, DIN-07712047)	<u>imran@gmail.com</u>	9832145261
9.	Sushil Kumar	ECE/2016	Asansol	Wityliti Automation and Solutions Private Limited (CIN No U72300WB2015PTC207705, DIN-07235837)	sushil@digirex.in	8768777710
10.	Tanay Chakraborty	MCA/2019	Asansol	Inocentum Technologies (<u>www.inocentum.in</u>) (Certificate No05021Y22000445)	tanay@inocentum.in	9564987234

11.	Arnab Jain	MCA/2019	Asansol	Inocentum Technologies (<u>www.inocentum.in</u>) (Certificate No05021Y22000445)	arnab@inocentum.in,	7063707547
12.	Diganta Dasgupta	MCA/2017	Asansol	Inocentum Technologies (<u>www.inocentum.in</u>) (Certificate No05021Y22000445)	diganta@inocentum.in	7001828717
13.	Mrinmoy Sarkar	AEIE/2014	Kolkata	Edots Technology	mrinmoysrkr70@gmail.com	8013242347
14.	Souvik Jana	ECE/2019	Midnapore	Fliqaindia Private Limited (CIN-U22222WB2019PTC233170, DIN-08524412, Startup Registration No MP2019000006)	souvikjana1996@gmail.com	9046138040
15.	Suman Bhattacharyya	ECE/2020	Asansol	Bitwin Technologies (<u>www.ambuzone.com</u>) (Reg. No. BD202000030)	sbhattacharyya510@gmail.com	8116067157
16.	Sourav Rakshit	AEIE/2018	Kolkata	Logiczap Nextgen Technologies (DIN 0009282398, CIN-U80900OR2021PTC037720)	sourav.logiczap@gmail.com	9614120256
17.	Supriyo Mitra	ECE/2023	Asansol	Small Town Talks (Certificate No 05053Y22000901)	supriyo@gmail.com	9933093449



Subham Raj Sharma (CSE 2021 Passout Batch) Co-Founder and Director Webingo Infotech Solutions



Tanay Chakraborty (MCA 2019 Passout Batch) Co-Founder INOCENTUM TECHNOLOGIES



Sourav Rakshit (AEIE 2018 Passout Batch) Founder and Director Logiczap Nextgen Technologies



Amit Kr Gupta (CSE 2021 Passout Batch) Co-Founder and Director Radobiz Private Limited

9.7 Co-curricular and Extra-curricular Activities (10)

For conduction of different sets of co-curricular and extra-curricular activities institutes has different chapters, membership, clubs and societies which are as follows:

Clubs: Hardware Club, Coding Club, Photography Club, Science Club, Tech Club, Robotics Society

YEAR-WISE ACTIVITIES OF DIFFERENT CLUBS

SN	Date	Name of the Event	Participants	National/ State/ Institute/ Dept.	Club Name	Mode
		A	cademic Year 20			
1	27-06- 2021	Monthly Event "Share Your Knowledge" for month of June	51	Institute	Hardware Club	Online
2	19-06- 2021	Tech Quiz #02	140	Institute	Coding Club	Online
3	19-06- 2021	Webinar on Effect on ULTRASOUND	120	Institute	Science Club	Online
4	06-06- 2021	CodeMate #01	93	Institute	Coding Club	Online
5	05-06- 2021	Poster Making Competition in World Environment Day	177	Institute	Tech Club	Online
6	01-06- 2021 02-06- 2021	Hands on Training on RoboArms Movement	129	Institute	Robotics Society, AEC	Online
7	23-05- 2021	Monthly Event "Share Your Knowledge" for month of May	101	Institute	Hardware Club	Online
8	01-05- 2021	Electronics Circuit Design Competition 2021	22	Institute	Hardware Club	Online
9	24-04- 2021	Webinar on Importance of Project	145	Institute	Hardware Club	Online
10	24-04- 2021	Tech Quiz #01	277	Institute	Coding Club	Online
11	22-04- 2021	Webinar on Earth Day	110	Institute	Science Club	Online
12	22-04- 2021	Online Debate Competition	18	Institute	Science Club	Online

	1			1	i i	
13	18-04- 2021	Monthly Event "Share Your Knowledge" for month of April	102	Institute	Hardware Club	Online
14	16-04- 2021	Seminar on "Nano Science and Technology"	86	Institute	Robotics Society, AEC	Online
15	11-04- 2021	Inauguration of AEC Coding Club	233	Institute	Coding Club	Online
16	10-04- 2021	Online Quiz Competition "Week of AEC Hardware Club (Special Edition-2)"	223	Institute	Hardware Club	Online
17	05-04- 2021	2 Days Workshop on familiarization of Electronics	88	Institute	Hardware Club	Online
18	06-04- 2021	Components/Devices for preparing hardware project	00	Institute	Haldwale Club	Omme
19	22-02- 2021	Webinar on "Service Before Sale" by Lt. Sandeep Jha	103	Institute	Tech Club	Online
20	21-02- 2021	Monthly Event "Share Your Knowledge" for month of February	77	Institute	Hardware Club	Online
21	24-01- 2021	Monthly Event "Share Your Knowledge" for month of January	184	Institute	Hardware Club	Online
22	12-01- 2021	National Youth Celebration	135	Institute	Tech Club	Online
23	06-01- 2021	Science Model Competition	20	Institute	Science Club	Online
24	19-12- 2020	Monthly Event "Share Your Knowledge" for month of December	208	Institute	Hardware Club	Online
25	15-12- 2020	Science Quiz	40	Institute	Science Club	Online

26	05-12- 2020	CSI State Student Convention in Association with Tech Club 1.Online Technical paper presentation 2. Online project elicitation and competition.	136	State	Tech Club	Online
27	22-11- 2020	Monthly Event "Share Your Knowledge" for month of November	18	Institute	Hardware Club	Online
28 29	10-10- 2020	2 days Webinar on Achiever Talks by Anukun Ojha (TCS Digital), Md. Sadman	200	Institute	Tech Club	Online
	11-10- 2020	(TCS Digital), Richik Majumdar (Persidtent)				
30	06-10- 2020	Online RoboQuiz - Round Final	23	Institute	Robotics Society, AEC	Online
31	05-10- 2020	Online RoboQuiz - Round 1	87	Institute	Robotics Society, AEC	Online
32	20-09- 2020	Monthly Event "Share Your Knowledge" for month of September	29	Institute	Hardware Club	Online
33	05-09- 2020	Wall Magazine - WITTY WALL publication (Technical)	167	Institute	Robotics Society, AEC	Online
34	23-08- 2020	Monthly Event "Share Your Knowledge" for month of August	19	Institute	Hardware Club	Online
35	01-08- 2020	Webinar on "Rethinking of Innovation on Product Development"	106	Institute	Robotics Society, AEC	Online
36	19-07- 2020	Monthly Event "Share Your Knowledge" for month of July	25	Institute	Hardware Club	Online

37	12-07- 2020	Webinar on necessity of club in dept and blueStack future utility for job by Atul Kashyap from CGI	90	Institute	Tech Club	Online
38	10-07- 2020	Discussion on Python Programming for Hardware Project	101	Institute	Hardware Club	Online
39	04-07- 2020	Webinar on "Concept of Robot Programming and Application"	89	Institute	Robotics Society, AEC	Online
		Α	cademic Year 20	19-2020		
1	22-06- 2020	Electronics Circuit Design Contest 2020	19	Institute	Hardware Club	Online
2	10-06- 2020	Technical Writing Competition "Look Around You"	146	Institute	Hardware Club	Online
3	17-05- 2020	Python Quiz for CSE students	120	Institute	Tech Club	Online
4	15-05- 2020	Innovative Poster Making Competition 2020	110	Institute	Hardware Club	Online
5	09-05- 2020	Online Quiz Competition "Week of AEC Hardware Club (Special Edition-1)"	645	Institute	Hardware Club	Online
6	04-05- 2020	Webinar on "Learn Fundamentals of Python"	203	Institute	Robotics Society, AEC	Online
7	03-05- 2020	Innovative Idea Submission Competition 2020	17	Institute	Hardware Club	Online
8	03-05- 2020	Quizzardt on Data Structure for 2nd year CSI members	90	Institute	Tech Club	Online

9	01-05- 2020	Writing of Technical Review Article and Publication	103	Institute	Robotics Society, AEC	Online
10	26-04- 2020	Webinar on Emerging Trends on Cloud Technology by Avinash Kumar Prasad Senior Software engineer at Cognizant	120	Institute	Tech Club	Online
11	26-04- 2020	Poster Making Competition	130	Institute	Tech Club	Online
12	15-04- 2020	Big Quiz	140	Institute	Tech Club	Online
13	02-03- 2020	10 Hours Hands on Training (workshop)	80	Institute	Tech Club	Offline
14	24-02- 2020	EVOLVE 2020 - Robotics Championship Competition	197	Institute	Robotics Society, AEC	Offline
15	22-02- 2020	EVOLVE 2020 - Robotics	197	Institute	Pahotias Society AEC	Offline
16	23-02- 2020	Championship Workshop	197	Institute	Robotics Society, AEC	Omme
17	03-02- 2020	Science Model making Competition	16	Institute	Science Club	Offline
18	11-11- 2019	CSI Student wing inauguration in Association with Tech Club and Seminar on IoT and Machine Learning	347	Institute	Tech Club	Offline
19	10-11- 2019	EVOLVE 2019 - Senior and Junior Robo Championship	312	Institute	Robotics Society, AEC	Offline
20	08-11- 2019 to 09-11- 2019	EVOLVE 2019 - Innovative Workshop	312	Institute	Robotics Society, AEC	Offline
21	18-10- 2019	Innovative Hardware Model Making Competition 2019	500	Institute	Hardware Club	Offline
22	17-10- 2019	Science quiz	50	Institute	Science Club	Offline

23	05-09- 2019	Wall Magazine - WITTY WALL publication (Technical)	134	Institute	Robotics Society, AEC	Offline
24	14-08- 2019	Symposium by different campus representative like code chef for 1st and 2nd year student	127	Institute	Tech Club	Offline
		Α	cademic Year 20	18-2019		
1	05-05- 2019	Quiz Contest on "Modern Technology"	315	Institute	Robotics Society, AEC	Offline
2	09-04- 2019	Workshop on Web designing using Html and CSS (10 Hours)	60	Institute	Tech Club	Offline
3	04-04- 2019	Extempore	30	Institute	Science Club	Offline
4	16-03- 2019 18-03- 2019	Workshop on Basic Drone Technology for 2nd Year Students	169	Institute	Robotics Society, AEC	Offline
5	17-03- 2019	Seminar on "Nano Science"	86	Institute	Robotics Society, AEC	Offline
6	16-03- 2019	Seminar on "Recent Technology in the field of Automation"	98	Institute	Robotics Society, AEC	Offline
7	06-03- 2019 to 08-03- 2019	Workshop on Basic Drone Technology for 1st Year Students	278	Institute	Robotics Society, AEC	Offline
8	08-02- 2019 09-02- 2019	ARDUINO DEVELOPMENT Workshop	127	Institute	Robotics Society, AEC	Offline
9	30-01- 2019	Problem solving challenge	35	Institute	Science Club	Offline
10	15-09- 2018	Logo Design Contest	60	Institute	Tech Club	Offline

11	05-09- 2018	Wall Magazine - WITTY WALL publication (Technical)	123	Institute	Robotics Society, AEC	Offline
12	03-09- 2018	Symposium on Emerging trends in web design	105	Institute	Tech Club	Offline
13	27-07- 2018	Codeway 1.0 workshop on coding through C for 1st year students (10 Hours)	90	Institute	Tech Club	Offline
		A	cademic Year 20	17-2018		
1	16-06- 2018 to 17-06- 2018	Hands on Training on Arduino Technology	121	Institute	Robotics Society, AEC	Offline
2	27-05- 2018	RoboQuizzz - Final Round	34	Institute	Robotics Society, AEC	Offline
3	20-05- 2018	RoboQuizzz - Round 1 and Round 2	149	Institute	Robotics Society, AEC	Offline
4	22-04- 2018	Seminar on "Mechatronics"	118	Institute	Robotics Society, AEC	Offline
5	21-04- 2018	Seminar on "Innovative Ideas on RoboNix"	112	Institute	Robotics Society, AEC	Offline
6	08-04- 2018	Extempore	32	Institute	Science Club	Offline
7	08-04- 2018	TECHNOXIAN - RoboRace Championship (Senior and Junior)	289	Institute	Robotics Society, AEC	Offline
8	06-04- 2018 to 07-04- 2018	TECHNOXIAN - Robotics Workshop	289	Institute	Robotics Society, AEC	Offline
9	26-01- 2018	Problem solving challenge	20	Institute	Science Club	Offline
10	04-11- 2017 to 05-11- 2017	Hands on Workshop on "Basic Robotics"	204	Institute	Robotics Society, AEC	Offline
11	27-09- 2017	Seminar by Mr. Imteyaz Khan, Senior Software Engineer at Flipkart	103	Institute	Tech Club	Offline
12	24-09- 2017	Training on "Robotic Components"	116	Institute	Robotics Society, AEC	Offline

13	17-09- 2017	Training on "Robotic Components"	116	Institute	Robotics Society, AEC	Offline
14	09-09- 2017	Science & Technical Quiz	60	Institute	Science Club	Offline
15	05-09- 2017	Inauguration of Robotics Society of AEC	75	Institute	Robotics Society, AEC	Offline
16	21-04- 2017	C-Code Battle	60	Institute	Tech Club	Offline

Coding Club: Photo Gallery



Science Club: Photo Gallery



Hardware Club: Photo Gallery















Tech Club: Photo Gallery







Photography Club

SN	Date	Name of the Event	Participants	National/ State/ Institute/ Dept.	Club Name	Mode					
Academic Year 2020-2021											
1	27-06- 2021	Webinar "Learn about Basic to Advanced about Photography techniques"	109	Institute	Photography Club	Online					
2	31-10- 2020	Puja Clicks 2020	167	Institute	Photography Club	Online					
3	19-08- 2020	Photography Contest on World Photography Day (in association with Fliqa India)	89	Institute	Photography Club	Online					
Academic Year 2019-2020											
1	15-05- 2020	FLIQAEC 2K20 National Level Photography Competition	74	Institute	Photography Club	Online					
2	04-11- 2019	Photography Contest for AEC Calendar	83	Institute	Photography Club	Online					

Photography Club: Photo Gallery



REPORT ON NSS ACTIVITIES

SI. No.	Date	Name of the Event	National/ State/ Institute/ Dept.	Participants	Mode						
Academic Year 2020-2021											
1	03-03-2021	Mask Distribution	State	400	Offline						
2	19-03-2021	Food Distribution	State	400	Offline						
Academic Year 2019-2020											
1	05-06-2020	Tree Plantation	CSE, IT, ME, EE, CE, MCA, ECE	100	Online						
Academic Year 2018-2019											
1	08-08-2018	Blood Donation Camp	CSE, IT, ECE, ME, CE, EE, MCA	110	Offline						
2	08-08-2018	Tree Plantation	CSE, IT, ME, EE, CE, MCA, ECE	112	Online						
3	07-11-2018	Tree Plantation	IT, ME, EE, CE, MCA, ECE, CSE	157	Offline						
3	19/09/2018	Eye Checkup Camps	CSE, IT, ME, EE, CE, MCA, ECE	98	Offline						
4	17/04/2019	Blood Donation Camp	ME, EE, CE, IT, ECE, CSE, MCA	86	Offline						
Academic Year 2017-2018											
1	08-08-2017	Blood Donation Camp	IT, ME, EE, CE, MCA, ECE, CSE	105	Offline						
2	11-02-2017	Blood Donation Camp	CSE, ECE, ME, CE, EE	58	Offline						
3	17/04/2018	Swachh Bharat	ECE, CSE, IT, ME, EE, CE, MCA	139	Offline						
Academic Year 2016-2017											
1	20/04/2017	Pulmonary Function Test	CSE, IT, ECE, ME	96	Offline						
2	15/05/2017	Poster Competition	ECE, CSE, IT, ME, EE	46	Offline						
3	07-03-2017	Campus Cleaning Program	ECE, CSE, IT, ME, EE	146	Offline						
4	07-03-2017	Library Cleaning Program	ECE, CSE, IT, ME, EE	121	Offline						

Blood Donation Camp no the Foundation Day 8th August 2018

On 8th of August every year Asansol Engineering College gladly celebrates its foundation

day. Since last several years on the eve of foundation day we organize Blood donation camp in our college campus. This year also we have organized a Blood Donation camp in Vivekananda Seminar Hall. Around 100 students and Faculty members donated the blood. Head of the Asansol blood bank Mr. A. Chatterjee was present with his team. Donors



were provided with the certificates and donor cards.

Tree plantation program on the college foundation day 2018

On college foundation day 8th August 2018, we celebrated the day with a tree plantation program. Around 100 different kinds of trees are planted in our campus. Students with faculty members participated in the program. The event was a real success.



Tree plantation program on CISF Foundation Day 2018

CISF Unit of Asansol has organized a tree plantation program in our college campus with the help of Asansol engineering College NSS unit. In the presence of CISF Commanding officer with his team our students and faculty members are also participated in the program, 50 nos of trees are planted.





Blood Donation Camp no 17th April 2019

On 17th of April 2019 NSS unit of Asansol Engineering College has organized a Blood Donation camp in Vivekananda Seminar Hall. Around 108 students and Faculty members donated the blood. Head of the Asansol blood bank Mr. A. Chatterjee was very



happy to see the enthusiasm and support of the students and willing to organize such camps in the future. Donors were provided with the certificates and donor cards.

Swachh Bharat Mission on 17/04/2018

Swachh Bharat Mission or Swachh Bharat Abhiyan or Clean India Mission is a countrywide campaign initiated by the Government of India in 2014 to eliminate open defecation and improve solid waste management.

Swachh Bharat Mission will lead to Healthy India which in turn increase productivity of Indians. High productivity means High earning



potential. In short, we can say healthy body is directly proportional to earning potential. A healthy auto driver can work for 12 hours a day from existing 8 hours thus can earn 50% more.



Keeping this in mind, AEC organized a oneday event on the awareness program of the Swach Bharat Mission.

The event started with the speech of Principal of AEC briefing about the importance of cleanliness followed by lighting of the diyas and seeking the blessings from almighty.

The Program started with a very impactful

dance-drama on the song "Swach bharat ka irada karliya humse" composed by Mr. Prasoon Joshi and sung by Mr. Kailash Kher showing the usual practices of littering and the mockery on the same.

It was followed by sharing of the opinions and



views of the student on the topic of cleanliness. A small quiz was organized for the proper interaction and to increase the awareness regarding the Swach Bharat Mission.

After this well enlightening and fun filled quiz, two dramas were performed, one by the students of the Electronics & Communication Engineering Department regarding the open



defecation and diseases related with it and Instrumentation Engineering Department for the awareness regarding the littering and the various issues related with it.

The event ended on a note of praise of the father of the Nation, Sir Mahatma Gandhi for his contributions in raising the awareness

about the cleanliness and sanitation and the appreciation of the cleanliness workers all around the world for their contributions in making this world a better place to live in.

We then went to a nearby village, *Panchgachia* for the awareness program and had a quite insightful interactions with the villagers.

Tree Plantation Program 05th June 2020

A tree plantation program was organized on the world environment day 2020. This was organized online as the college was closed due to Covid lockdown. The response from the students was wanderfull. Arround 100 students was participated.





REPORTS ON SPORTS ACTIVITIES

The Institute is very much enthusiastic to promote sporting activities among the students as we believe that "A healthy mind Lives in a Healthy body only".

Infrastructure:

- 1. Cricket and Football Ground.
- 2. Volleyball Court
- 3. Basketball Court
- 4. Central Gymnasium
- 5. Badminton Courts in Hostels
- 6. Carom Boards in Hostels

Intra College Events:

- 1. Inter Departmental Cricket Tournament
- 2. Inter Departmental Football Tournament
- 3. Inter Departmental Volleyball Tournament
- 4. Annual Sports

Different Sports Activities

Sl. No.	Date	Name of the Event	National/ State/ Institute/ Dept.	Participants				
		Academic Year 2020-202	21					
2	14th to 20th January, 2021	SJSM & SK Intercollege Tournaments	Intercollege	14				
		Academic Year 2019-202	20					
1	10th to 11th February, 2020	Annual Sports	Institute	237				
2	18th to 24th January, 2020	SJSM & SK Intercollege Tournaments	Intercollege	48				
3	5th to 8th January, 2020	Cricket Tournament	Institute	224				
4	7th to 9th January, 2020	Volley Ball Tournament (Boys' & Girls)	Institute	80 + 40				
5	15th to 18th September, 2019	Football Tournament	Institute	240				
	Academic Year 2018-2019							
1	4th to 5th February, 2019	Annual Sports	Institute	237				
2	15th to 21st February, 2019	SJSM Intercollege Tournaments	Intercollege	38				
3	13th to 16th January, 2019	Cricket Tournament	Institute	224				
4	15th to 17th January, 2019	Volley Ball Tournament (Boys' & Girls)	Institute	80 + 40				
5	29th September to 1st October, 2018	SJSM Volleyball Tournament for Boys	Intercollege	12				
6	16th to 19th September, 2018	Football Tournament	Institute	240				
		Academic Year 2017-201	8					
1	5th to 6th February, 2018	Annual Sports	Institute	237				
2	10th to 14th February, 2018	SJSM Intercollege Tournaments	Intercollege	28				
3	13th to 16th January, 2018	Cricket Tournament	Institute	224				
4	31st October to 3rd November, 2017	MAKAUT Zone-1 Inter College Football Tournament	Institute	15				
5	18th to 21st September, 2017	Football Tournament	Institute	240				

Glimpses of Sports & Games



Lineup: Inter-Departmental Football – 2019



Champions MAKAUT Zone 1 Football Tournament – 2017



Trophies Inter-Departmental Football – 2018

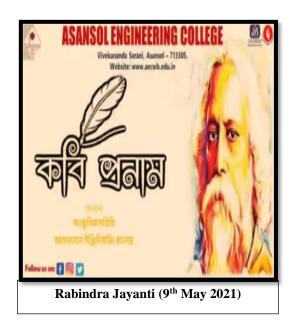


AEC/CSE/NBA - 2022

Sports - 2020

Sl. No.	Date	Name of the Event	Participants	Mode					
110.		Academic Year 2020-2021	1	I					
1	2nd October, 2020	Gandhiji Birthday Celebration	23 participants	Online Activity					
2	26th January, 2021	Republic day Celebration	20 participants	Only Teachers					
3	18th March, 2021	Basanta Utsav	24 participants	Online Activity					
4	15th April, 2021	Poila Baisakh (Bengali new Year)	35 participants	Online Activity					
5	9th May, 2021	Rabindra Jayanti Celebration	18 participants	Online Activity					
6	24th May, 2021	Nazrul Jayanti	20 participants	Online Activity					
	Academic Year 2019-2020								
1	8th August, 2019	College Foundation Day	70 participants	Offline Activity					
2	15th August, 2019	Independence Day	20 participants	Offline Activity					
3	28th September, 2019	Cth September, 2019 Agomani Utsav (Pre-Puja Celebration)		Offline Activity					
4	27th October, 2019	Diwali celebration	17 participants	Offline Activity					
5	26th January, 2020	Republic day Celebration	50 participants	Offline Activity					
		Academic Year 2018-2019							
1	15th August, 2018	Independence Day	45 participants	Offline Activity					
2	9th October, 2018	Agomani Utsav (Pre-Puja Celebration)	32 participants	Offline Activity					
3	2nd October, 2018	Gandhiji Birthday Celebration	26 participants	Offline Activity					
4	26th January, 2019	Republic day Celebration	25 participants	Offline Activity					
		Academic Year 2017-2018							
1	15th August, 2017	Independence Day	50 participants	Offline Activity					
2	2nd October, 2017	Gandhiji Birthday celebration	36 participants	Offline Activity					
3	19th October, 2017	Diwali celebration	45 participants	Offline Activity					
4	26th January, 2018	Republic day celebration	29 participants	Offline Activity					

REPORTS ON CUTLTURAL ACTIVITIES



The cultural unit organises offline and online programmes for celebration of important days like Rabindra Jayanti – the birth anniversary of the Nobel Laureate poet Rabindranath Tagore, the birth anniversary of Kazi Nazrul Islam – the rebel poet of Asansol and the like.

To spread and motivate students towards performing arts in form of music, dance, drama, instruments and group show of talent so as to develop their socio-cultural competencies, the cultural unit of college organizes several programmes across the year where students can freely participate and harness their talents.



'Agomoni' – a term used for invoking the home-coming of goddess Durga who is treated 'Uma' - as the daughter of Bengal is a cultural performance held before the Durga Puja vacations where students participate with great enthusiasm and zest.



Agomoni (28th September 2019)

Rangoli Festival organised during the Diwali celebrations in college is one of the major attractions. Students' creativity is exhibited in the various designs created with flower. colours and diyas during the Rangoli festivals.



Rangoli, Diwali Celebration (19th October 2017)



Basanta Utsav (20th March 2021)

Basanta Ustab (Holi) is one of the events of colour and dance and music which is organised in the time of Spring. Students enjoy putting colours on their faces and participate in a musical journey of the folk songs and dance numbers of Bengal.

Not only students but also teachers and staff members participate in many cultural programmes of college. This enables a greater bonding in the teacher-student relationship and creates a conducive environment for beyond class learning as well. The Diwali celebration of



the year 2020 is one such example where the teachers organised an online performance which was uploaded in the face book page of college.

On 2nd October, to observe the Birth Anniversary of the Father of the Nation – Mahatma Gandhi, the college organises an open to all sit and draw painting event. Teachers and students happily participate in this event.



Painting, Gandhi Jayanti (2nd October 2018)

ANNUAL EVENTS

Following events are done annually:

1) Annual Sports

2) FIESTA: An Annual Cultural and Technical Fest

FIESTA

(LEGANZZA & INFOQUEST)

(The Annual Fest of ASANSOL ENGINEERING COLLEGE)

We, the members of the ASANSOL ENGINEERING COLLEGE (AEC) family, join our hands together to organize the much-awaited event FIESTA every year in the month of February-March. The AECians, which include more than 2000 students and near about 200 faculty & staff members, wait eagerly for the event every year. FIESTA, is basically an annual event which has two categories viz. the Cultural Fest named as LEGANZZA and the Technical Fest INFOQUEST.

Separate Committees comprising of both Teachers and Students are set up for organizing the events in a flawless and peaceful manner. Responsibilities are being assigned to each of the committee members which they perform spontaneously and with utmost interest to make the events a grand success. Students' participants enroll their names in different events to the registration committee. Around 8 events take place under LEGANZZA and approx. 17 events take place under INFOQUEST. Every event has teacher coordinators and student coordinators who take charge of their respective events. More or less 60% to 70% students participate in the events majority of which happens to be from1st year.

LEGANZZA, a two days event, comes up with the events which unfolds the cultural talents of our students like

- Solo & Group Dance (Both Competitions and Performances)
- Singing Competition (Miley Sur Mera Tumhara)
- AEC Rowdies

- Director's Cut
- Rangmanch/SKIT
- Paper Dress Art
- String Symphony (Instrumental Performances by students)
- Fashion Show (Mr.& Miss. AEC) which happens to be probably the most attractive, most popular and most prestigious event among all.

Few of the events have the initial elimination rounds in presence of the teachers. After finalizing the participants for the on-stage appearances, several grooming and/or practice sessions are arranged for them. Apart from the students' performances, teachers & staffs also perform sometimes which certainly boosts up the student's confidence. Besides Students and Teachers performances, we organize two renowned guest performances on each day.

INFOQUEST, two days event as well, targets on highlighting the technical talents of our beloved students. The major events under INFOQUEST are

- CODIAC
- Quizomania
- LABYRINTH
- Spell Bee
- Paint Ball
- Creative Writing
- Photography
- Painting
- FUTSOL
- Hardware Battleship etc.

Many hidden talents of our students get unleashed through these events. In some events, participants from other colleges also take part.

The names of the winners and the runners up students of different events of both LEGANZZA and INFOQUEST were announced on the stage on the closing day and the students were felicitated.

Glimpses of FIESTA (LEGANZZA and INFOQUEST)













Event: Human Pyramid Leganzza 2018





Event: Celebrity Performance by TRAP Band Leganzza 2018

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10. GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES (120)

10.1. Organization, Governance and Transparency (40)

10.1.1. State the Vision and Mission of the Institute (5)

Vision: To emerge as a center of excellence in technical education, offering best of the teaching and learning by creating ambience for advanced level of education and research to serve the society.

Mission:

IM-1. To create an ambience for advanced level of teaching and learning process.

IM-2. To generate new ideas by engaging in cutting-edge research and technology.

IM-3. To initiate collaborative projects which offer opportunities for long term interaction with industry and academia.

IM-4. To develop intellectual human potential for serving the society according to the regional, national and global needs.

10.1.2. Governing body, administrative setup, functions of various bodies, service rules, procedures, recruitment and promotional policies (10)

Board of Governors (BoG)

Governance is the key activity that keeps a connection between the management, staff, students and the community. The institution has a governing body in place wherein the members are drawn from distinguished cross-section of the society following AICTE guidelines.

Details of the members of the governing body are mentioned in the following table.

SN	Name	Designation	Field
1	Prof. (Dr.) Ajay Roy	Chairman	Director, JISIASR, Padmashree, Ex-VC &
1	F101. (D1.) Ajay Koy	Chairman	Director, IIEST., Ex – Professor of IIT, Kharagpur
		Member	
2	DTE / Representative of DTE	Member	Nominee of the State Government (Ex – officio)
	Prof. (Dr.) Sebak	Member	Professor, Dept. of Food & Science, MAKAUT,
	Ranjan Roy	Member	Kolkata (Nominee from MAKAUT, University
3	Kanjan Koy		Representative)
	Mr. Taranjit Singh,	Member	MD, JIS Group (Nominee of the Society)
4	wir. Faraigit Singh,	Wiennoer	WD, JIS Group (Nonlinee of the Society)
	Mr. Haranjit Singh	Member	Director, JIS Group (Nominee of the Society)
5			
6	Mr. S. Roychowdhury	Member	MD, Techno India Group (Nominee of the Society)
	Mr. G. Roychowdhury	Member	Chairman, Techno India Group (Nominee of the
7			Society)
	Mr. Amrik Singh	Member	Director, JIS Group (Nominee of the Society)
8			
	Mr. T. K. Ghosh	Member	Executive Director, Techno India Group (Nominee
9			of the Society)
10	State Govt. Nominee	Member	Educationist nominated by the State Govt.
	Dr. Asit Guha	Member	Ex- COE, Kalyani University (Educationist,
11			Nominated by the Society)
	Mr. Amit Srivastava	Member	Director, Hash Technology (Industrialist,
12			Nominated by the Society)
	Dr. Sandip Haldar	Member	Professor, AEC (Faculty Representative)
13			
14	Mr. Koushik Neogi	Member	Asst. Professor, AEC (Faculty Representative)
	Prof. (Dr.) P. P.	Member	Principal, AEC
	Bhattacharya	Secretary	
15			

BoG meeting is held quarterly in every Academic session. In case of exigency Board meetings are organized with the recommendation from the Chairman, BoG.

Functions of BoG

Terms of office of Members	The terms of the office of all the members shall be two years.
of Board:	
Meeting(s):	At least four times a year
Function of the Board of	a. The Governing Body of the institute shall be responsible
Governors:	for the general superintendence, direction and control of
	affairs of the institute and shall exercise all the powers of the
	institute.

b.	Without prejudice to the provisions of sub-section,
	verning Body shall
	Take all decisions on questions of policy related to the
	administration of the institution.
2.	Propose and approve different courses of studies in the
	institution.
3.	Make plan and appoint different cadre for academic as
	well as other posts of the institution.
4.	Make and approve the service rule of the institution.
5.	Supervise, guide and approve proposals of various
	committees such as Academic Committee, Finance
	Committee, Purchase Committee etc.
6.	Consider and approve resolutions on the annual report,
	the accounts and the institute's budget.
7.	Have the power to perform such other duties and appoint
	such committees as it considers necessary and deemed fit
	for proper development and conservation of academic
	standard and reputation of the institute.
8.	Introduce scholarships, fellowships, medals and
	certificates on the recommendations of the appropriate committees.
	Consider reward and promotion of the faculty member(s)
	and staff on recommendation of the appropriate
	committees.
10.	
	guidance for achieving project goal and target.
111	
	excellence.
12.	
	effectiveness of services to community and industry.
13.	
	with policy reforms.
	The pointy forormo.

Administrative set up

The institute enables a perfect decentralization of activities and entrustment of authorities for different functions. Entire administration procedures remain primarily focused on students, who are heart & soul of the system, though they do not take part directly to the administration process. Involvement of each and everyone in the decision-making and the transparency associated therein also form the important features of the work culture of the institute. The institute functions with perfect decentralized administration as depicted in the Organizational Structure.

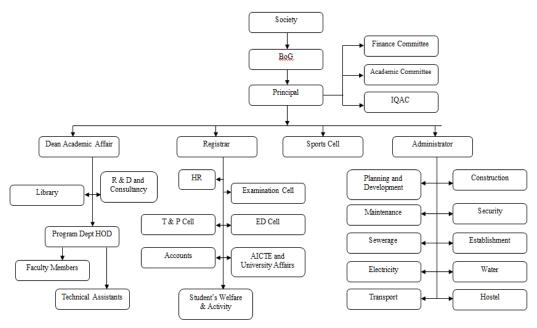


Fig. 10.1 Organizational Structure

Structure and Functions of various bodies/committee

Name of	Committee		Function	Frequ	uency	of
the	structure			meeti	ing	
committee						
Academic	a) Chairperson	a)	To exercise general supervision ov	er the	(a)	The
Committee	- Principal		academic work of the Institute a	nd to	Acade	emic
	b) Convener -		give direction regarding method	ds of	Comn	nitte
	Senior		instructions, evaluation or resear	ch or	e	shall
	Faculty		improvements in academic standar	rds.	meet	as
	Member				often	as
					may	be

and tworesearches from time to time.less theSeniorc)To consider matters of academictwo timeFacultyinterest either on its own initiative or atduringMembersthe instance of the Board of Governorssemested)Externaland to take proper action thereon.(b)Members –d)To make arrangements for theChairpeOne fromconduction of examinations inon mIndustry andconformity with the by-laws.converteOne fromexamination.and whenf)To suggest measures for departmentalshe/heg)To make recommendations to the Boardwithout	a c. nay a as aen
Seniorc) To consider matters of academictwo timeFacultyinterest either on its own initiative or atduringMembersthe instance of the Board of Governorssemesterd) Externaland to take proper action thereon.(b)Members –d) To make arrangements for theChairperOne fromconformity with the by-laws.conventIndustry andconformity with the by-laws.conventOne fromexamination.and withetf) To suggest measures for departmentalshe/heco-ordination.g) To make recommendations to the Boardwithout	a c. rs ay a as ien
Facultyinterest either on its own initiative or at Membersduring uring the instance of the Board of Governorsduring semesterd) Externaland to take proper action thereon.(b)Members -d) To make arrangements for the conduction of examinations in on n conformity with the by-laws.Chairper convent on n eting and withoutOne frome) To maintain proper standards of the examination.meeting and withoutAcademiaf) To suggest measures for departmental co-ordination.she/he deemsg) To make recommendations to the Boardwithout	a c. nay a as aen
Membersthe instance of the Board of Governorssemesterd) Externaland to take proper action thereon.(b)Members -d) To make arrangements for theChairperOne fromconduction of examinations inon nIndustry andconformity with the by-laws.conventOne frome) To maintain proper standards of themeetingAcademiaf) To suggest measures for departmentalshe/heco-ordination.g) To make recommendations to the Boardwithout	rs lay as len
d) Externaland to take proper action thereon.(b)Members -d) To make arrangements for theChairperOne fromconduction of examinations inon mIndustry andconformity with the by-laws.conventOne frome) To maintain proper standards of themeetingAcademiaf) To suggest measures for departmentalshe/heco-ordination.g) To make recommendations to the Boardwithout	rs iay a as ien
Members - One from Industry and One fromd) To make arrangements for the conduction of examinations in on n conformity with the by-laws.Chairpe on n on n convent convent e) To maintain proper standards of the examination.meeting and wh she/he deems g) To make recommendations to the Board	ay as as
One from Industry andconduction conformity with the by-laws.on n n convenceOne from Academiae)To maintain proper standards of the 	ay as as
Industry and One from Academiaconformity with the by-laws.convent meeting and whAcademiae) To maintain proper standards of the examination.meeting and whf) To suggest measures for departmental 	a as ien
One from Academiae) To maintain proper standards of the examination.meeting and wh and wh f) To suggest measures for departmental co-ordination.f) To suggest measures for departmental 	as ien
Academiaexamination.and whetherf)To suggest measures for departmentalshe/hetherco-ordination.deemsg)To make recommendations to the Boardwithout	ien
f) To suggest measures for departmental co-ordination.she/he deemsg) To make recommendations to the Boardwithout	
co-ordination. deems g) To make recommendations to the Board without	
g) To make recommendations to the Board without	
	fit
of Governors on	
of Governors on: any pr	ior
(i) Measures for improvement of notice.	
standards of teaching, training and	
research.	
(ii) Fellowships, Scholarships, Medals,	
Prizes etc.	
(iii) By-laws covering the academic	
functioning of the Institute,	
discipline, residence, admissions,	
examinations, award of fellowships	
and studentship, free ships,	
concessions, attendance etc.	
h) To appoint sub-committees for	
providing advice on such specific	
matters and may be referred to by the	
Board of Governors.	
i) To consider the recommendations of the	
sub-committees and to take action	

		accordingly (including making	g of
		recommendations to the Boar	d of
		Governors) as the circumstance	es on
		each case may require.	
	j)	To take periodic review of the act	ivities
		of the Department / Centers and te	o take
		appropriate action (including mak	ing of
		recommendations to the Boar	d of
		Governors) with a view to maintain	in and
		improve the standards of instruction	on.
	k)	To exercise such other powers	s and
		perform such duties as may be con	ferred
		to or imposed upon by the rules ar	nd by-
		laws.	
	1)	To recommend creation of Tea	ching
		posts, Professors, Associate Pro-	fessor
		and Assistant Professors to the Bo	ard of
		Governors.	
	m)	To finalize academic calendar	and
		holiday list.	
Finance	a) Chairperson –	a) Budget preparation and	(a) The Finance
Committee	Principal	Fiscal Planning	Committee shall
	b) Convenor –	b) Budget Allocation	meet as often as
	Registrar	c) Recommend the Budget to	may be necessary
	c) Member –	the BoG for approval	but not less than
	Administrator	d) Re-appropriation of funds	one time
	d) Member –	of different Heads of the	annually.
	One/Two Senior	Budget with approval of the	(b) Chairperson
	Faculty Member	BoG.	may convene a
	e) Member – BoG	e) Budget estimates relating to	meeting as and
	Nominee	the grant received /	when she/he
		receivable from UGC, and	deems fit without
		income from fees and other	any prior notice.
L			

	f) Einenee Officer		and collected for	
	f) Finance Officer	sour		
	– Head,		oth operation of the	
	Accounts	colle	-	
		, í	ise the BoG on any	
			er involving finance, if	
		aske	d for.	
Grievance	a) Chairperson -	a) To enli	ist the grievances of the	(a) The Grievance
Redressal	Principal	students	& staff and to initiate	Redressal Cell
Committee	b) Convener – One	correctiv	e measures	shall meet as
(GRC)	Senior Faculty	immedia	tely.	often as may be
	Member	b) To	provide all sorts of	necessary but not
	c) Member – Two	informati	on to the students &	less than one time
	Senior Faculty	guardian	S.	annually.
	Members (One	c) To en	sure creation of staff-	(b) Chairperson
	Female)	students'	friendly atmosphere.	may convene a
	d) Student	d) To rep	ort intermittently to the	meeting as and
	Members – One	BoG on	the action taken for	when she/he
		mitigatin	g the grievances	deems fit without
		received	by the committee.	any prior notice.
		e) To fi	unction under overall	
		control &	z guidance of the BoG	
		f) Any ot	her function as may be	
			by the BoG from time	
		to time	2	
Anti-	a) Chairperson - Princi	ipal	a) To prevent ragging	in (a) The Anti-
Ragging	(Ex-officio)		the Institution.	Ragging
Committee	b) Convener - Registra	ır	b) To aware all abo	
	c) Member - Administ		the punishment	& shall meet as
	d) Members – Two or 7	Three	cons of Ragging.	often as may
	HoDs of Academic		c) To Ensure all take t	
	Departments		anti-ragging oath.	but not less
	e) Member - Represen	tative	d) To make ragging fr	ree than one time
	of Police		environment in a	nd annually.
	<u> </u>		L	

				-			
	f) Member - Represent	tative of		around the c	campus	of	(b)
	Civil Administration			the institution	on		Chairperson
	g) Member - Represen	tative	e)	To tackle th	e cases	of	may convene
	from NGO			ragging	in	the	a meeting as
	h) Member - Represen	tative		Institution.			and when
	from local media		f)	To maintair	n relev	ant	she/he deems
	i) Member - Represent	ative		records prop	perly.		fit without
	from parents		g)	Any other fu	unction	as a	any prior
	j) Member – One lady	,		may be ent	rusted	by	notice.
	representative from	Staff		the BoG fro	m time	e to	
	k) Member - One mal	e		time			
	representative from	Staff					
	l) Members - Hostel V	Varden					
	and Asst. Wardens						
	m) Members - Four st	udent					
	members						
Internal	a) Presiding Officer	a) To de	eal t	he matter re	elated	(a)	The Internal
Complaints	- One Senior Lady	with Prev	venti	on and Prohi	bition	Co	mplaints
Committee	Faculty	of Sex	ual	Harassmen	t of	Co	mmittee shall
(ICC)	b) Members - Two	Women	E	Employees	and	me	et as often as
	Senior teaching and	Students	an	d Redressa	l of	ma	y be necessary
	two non-teaching	Grievanc	es			but	t not less than
	staff members	b)	To	o org	ganize	one	e time
	(female)	training/o	orien	tation/aware	ness	anı	nually.
	c) Members - Three	program		for g	ender	(b)	Presiding
	student nominees		tion	and proces		off	ficer may
		complain		-		con	nvene a
		-				me	eting as and
						wh	nen she/he
						dee	ems fit without
						an	y prior notice.

SC/ST	a) Chairperson –	a) To resolve issues related to (a)) The SC/ST	
Committee	Principal	SC/ST and their grievances if Co	ommittee shall	
	b) Convener – One	any m	meet as often as	
	Senior Faculty	b) To aware about the different matrix	ay be necessary	
	Member	schemes of Govt for the SC/ST bu	t not less than	
	c) Members – 2	on	e time	
	faculty members	an	nually.	
	shall be SC/ST	(b) Chairperson	
	d) Members – 1	m	ay convene a	
	faculty member	m	eeting as and	
	(female)	W	hen she/he	
		de	ems fit without	
		an	y prior notice.	
Internal	a) Chairperson -	a) Development and application of	f (a) The	
Quality	Principal	quality benchmarks.	Internal	
Assurance	b) Member - Five	b) Parameters for various academi	c Quality	
Cell	senior faculty	and administrative activities of th	e Assurance	
(IQAC)	members and	institution.	Cell shall	
	one senior	c) Enabling the creation of a learner	- meet as	
	administrative	centric environment favourable to	o often as may	
	official	quality education and facult	y be	
	c) Member - Two	development, to adopt the required	d necessary	
	external	knowledge and technology fo	r but not less	
	experts on	learner centered, interactiv	e than two	
	Quality	teaching and learning process.	times during	
	Management/	d) Gathering and analysing o	f a semester.	
	Industry/Local	feedback from all stakeholders of	n (b)	
	Community -	quality-related institutiona	l Chairperson	
	d) Member	processes.	may	
	Secretary -	e) Broadcasting of information of		
	Director /	various quality parameters to al	_	
	Coordinator	stakeholders.	and when	

		f) Organization of inter and intra she/he
		institutional workshops, seminars deems fit
		on quality related themes and without any
		promotion of quality circles. prior notice.
		g) Documentation of the various
		programmes/activities leading to
		quality upgrading.
		h) Performing as a nodal agency of
		the Institution for coordinating
		quality-related activities, including
		adoption and spreading of best
		practices.
		i) Growth and conservation of
		institutional database through ERP
		for the purpose of maintaining
		/enhancing the institutional
		quality.
		j) Periodical conduction of
		Academic and Administrative
		Audit and its follow-up.
		k) Preparation and submission of the
		Annual Quality Assurance Report
		(AQAR) as per guidelines and
		parameters of NBA/NAAC.
Library	a)	a) To ensure proper functioning of (a) The Library
Committee	Chairperson –	the library. Committee shall
	Principal	b) To ensure accessibility of meet as often as
	b) Convener -	Books/Journals as per requirement may be
	Librarian	of the student and faculty. necessary but
	(Ex-officio)	c) To ensure that e-library facilities not less than
	c) Members -	are available for use. once in every
	One faculty	d) To ensure accessibility & three months.

ac	rom each cademic	(enhai	ncement of resources of	(b) Chairperson
	cademic				
de		(digita	al library.	may convene a
I I	epartment	e) [To a	urrange for keeping library	meeting as and
		(open	as per need of the	when she/he
		S	stude	nt/faculty members.	deems fit
		f) 7	To fi	unction under overall control	without any
		ä	and g	uidance of the BoG.	prior notice.
		g) /	Any	other function as may be	
		ä	assig	ned by the BoG from time to	
		t	time.		
Industry a)) Chairperson -		a)	Enrolment of Industry	(a) The IIC shall
	rincipal			personnel for academic	meet as often as
) Chief			exchange.	may be necessary
1 /	coordinator - One	e	b)	Find out future investors /	but not less than
	enior Faculty	•		collaborators in various	one time
) Members of			departments of the college.	annually.
l í	dvisory		c)	Organize quarterly	(b) Chief
	committee –			department specific	Coordinator may
	egistrar, All			industry institute meeting	
	loDs, Two				
				& finalize sponsors for the	meeting as and
	ndustry Persons		/L	same.	when she/he
) Members of		d)	Setup Centre of	deems fit without
	Iarketing			Excellence.	any prior notice.
	committee – 3		e)	Bring and execute	
	enior faculty			consultancy projects for	
m	nembers			various departments.	
			f)	Testing and assuring	
				quality/strength for various	
				industry products.	
R & D a)) Coordinator -		a)	Identifying different	(a) The R & D
Committee O	ne HoD / senior	r		funding agencies.	Committee shall
fa	aculty member		b)	Applying Project proposal,	meet as often as

	 b) Members - Faculty members having ample of research experience 	AICTE, DST, etc. by involving all faculty members.c) Maintaining report of all	may be necessarybut not less thantwice in a year.(b) Coordinator
		research related activities, copy of publications, copy of project proposal etc.d) Any other function as may be entrusted by the BoG from time to time.	may convene a meeting as and when she/he deems fit without any prior notice.
Admission Committee	a) Convener – Registrar b) Admission In Charge/Coordinator – One Senior Faculty Members c) Members - Faculty Members / TA / Office staff.	 To look after the promotional activities for admission. To provide all sorts of information regarding admission to the concerned students & guardians. To facilitate the admission process properly. Any other function as may be entrusted by the BoG from time to time. 	 (a)The Admission Committee shall meet as often as may be necessary but not less than one time annually. (b) Convener may convene a meeting as and when she/he deems fit without any prior notice.
Sports Committee	 a) Sports In Charge/Coordinator One Senior Faculty Member b) Members - Faculty members and TA are nominated as Coordinator of 	 a. To conduct annual sports & games in the Institution. b. To organize regular practice of sports & games for the students and to ensure their better performance. c. To take initiatives regarding the participation of the 	 (a) The Sports Committee shall meet as often as may be necessary but not less than one time annually. (b) Chairperson may convene a

different sports.	institution in Inter-college	meeting as and
-		when she/he
-	-	deems fit without
``		any prior notice.
1		any prior notice.
	to time.	
Head Coach		
a) Convener:	a. To conduct all types of	(a) The Cultural
One Senior Faculty		Committee shall
Member.	1 0	meet as often as
b) Members -	Institution.	may be necessary
Representatives	b. To encourage students'	but not less than
from Faculty	participation in the various	one time
members / TA /	cultural programmes of the	annually.
other staffs /	college.	(b) Convener
students	c. To take initiatives for the	may convene a
	participation of the institution	meeting as and
	in Inter-college competitions	when she/he
	etc.	deems fit without
		any prior notice.
a) Convener:	a. To organize quiz	(a) The Techno -
One senior faculty	competitions, seminars etc.	Scientific
member	related to science &	Committee shall
b) Members - Three	technology	meet as often as
representatives	b. To organize Tech. Fair	may be necessary
from Faculty	c. To make arrangements for	but not less than
Members.	Technology model	one time
c) Member - Three	competition	annually.
Representatives	d. To take initiatives for the	(b) Convener
from TAs	participation of the institute in	may convene a
d) Member - Two	Inter-college competitions etc.	meeting as and
representatives	e. The committee will take care	when she/he
	Faculty member / TA /students (co- opted). Physical Director - Head Coach a) Convener: One Senior Faculty Member. b) Members - Representatives from Faculty members / TA / other staffs / students a) Convener: One senior faculty member b) Members - Three representatives from Faculty Members. c) Member - Three Representatives from Faculty Members. c) Member - Three Representatives	Faculty member / TA /students (co- opted).competitions etc.Physical Director - Head Coachd. Any other function as may be entrusted by the BoG from time to time.a) Convener: (De Senior Faculty Member.a. To conduct all types of cultural programmes throughout the year in the Institution.b) Members - Bepresentatives from Faculty members / TA / other staffs / studentsa. To encourage students' participation in the various cultural programmes of the college.a) Convener: (De senior faculty members / TA / other staffs / studentsa. To organize quiz competitions etc.a) Convener: (De senior faculty membera. To organize quiz competitions, seminars etc. related to science & technologya) Convener: (De senior faculty membera. To organize quiz competitions, seminars etc. related to science & technologyb) Members - Three representatives from Facultyc. To make arrangements for Technology model competitionc) Members. c) Members.competition for Tas d) Member - Two

	e) Member - Four student	achieve	competitive exams e awards, fellowshi		without any prior notice
	representatives from four years with representation from girl students also.	etc.			
Women Cell	 a) Coordinator – One S Faculty (Female) b) Member – At least 4 teaching faculty (female) c) Member – 2 technic (female) d) Member – At least 1 teaching staff (female) e) Member – 2 student representative (female) 	4 al staffs 1 non-	a. To aware about the different schemes for students (female) b. To deal with the issues related with women (not at purview of ICC) c. To arrange different programs related to women.	sha ma no a s (b) co an de	 The Women Cell all meet as often as ay be necessary but t less than once in semester Coordinator may nvene a meeting as d when she/he ems fit without any ior notice

Functions of Key Administrative Positions

Positions	Functions		
Society	 Highest Authority for Governance of the College Advice the governing body through its nominated representatives. 		
BoG	 Take all decisions on questions of policy related to the administration of the institution. Propose and approve different courses of studies in the institution. Make plan and appoint different cadre for academic as well as other posts of the institution. Make and approve the service rule of the institution. 		

	-	
	• Supervise, guide and approve proposals of various committees	
	such as Academic Committee, Finance Committee, Purchase	
	Committee etc.	
	• Consider and approve resolutions on the annual report, the	
	accounts and the institute's budget.	
	• Consider reward and promotion of the faculty members and	
	staff on the recommendation of the appropriate committees.	
	• Review project implementation in progress and give guidance	
	for achieving project goal and target.	
	• Develop strategies for creating the ambience for excellence.	
	• Suggest measures for enhancing the reach and effectiveness of	
	services to community and industry.	
	• Ensuring institutional accountability and compliance with	
	policy reforms.	
Principal	• The Director/Principal shall be the chief academic and	
	administrative Head of the College.	
	• Policy planning and leadership.	
	• Communicating the Vision, Mission, Objectives and all Policy	
	of the authority to all employees of the Institution.	
	• Implementation of the directions of the BOG / Society	
	Total Administration of the Institution.	
	• Fixing parameters and goal sheets for the teaching and non-	
	teaching employees	
	• Monitoring and evaluation of Teaching, Research, Publication,	
	Real knowledge application etc.	
	• Close participation in the process of performance evaluation of	
	employees.	
	• Personal involvement in Teaching, Research, Publication, Real	
	knowledge application as per norms.	
	• To monitor & follow up the proceedings of meeting of the	
	Departmental committee & activities.	
	· r · · · · · · · · · · · · · · · · · · ·	

	• Monitoring and promoting R & D activities in the institution.	
	• Developing a strong association with industry, research and	
	consultancy establishments and signing Memorandum of	
	Understandings aimed at improving specific strengths of the	
	college.	
	• Identifying the newly inducted faculty for orientation programs	
	and plan for them in every semester.	
	• Serving as an instructional coach.	
	• Creating professional development opportunities for all.	
	• Motivating faculty and others.	
	• Identifying unique leadership capabilities of teachers and others	
	and match them with leadership opportunities.	
	• Mentoring others and identifying others with mentoring	
	capabilities	
	• Any other function that may be assigned by the HOI from time	
	to time.	
Administrator	Oversee all the construction activities	
	• Supervise the security and housekeeping staff	
	• Supervise the maintenance work / water supply / electricity	
	• Advice on each development work of college	
	• Determining the need and planning for facility maintenance,	
	and renovation expansion.	
	• To ensure overall administration of all hostels.	
	• To establish coordination with Chief Warden/Assistant Warden	
	of various hostels for smooth running of day-to-day routine	
	work of hostel.	
Registrar	• Assists the Principal (HOI) in administering and leading the	
	college within the policy framework developed by the College	
	Academic Committee.	
	• Supervises at the directives of the HOI, and assists in the	
	completion of administrative details and tasks required to	
	maintain an efficient operational pattern for the college.	

	 Maintaining all records pertaining to students, faculty and staff Developing job descriptions for faculty and other staff by emphasizing a candidate's knowledge, skills, values, and commitment. Completing the student admission process of all programs of the college. Ensuring effective utilization of transport of students, staff, and faculty members. Ensuring safety and security to all in the institute. Promoting multicultural interactions and understandings among students, staff, and faculty members.
	 Acts as a link between students, alumni and the employers. Planning, directing, scheduling and coordinating in-service training program for non- technical and non-teaching staff. Supervising and evaluating administrative personnel. Maintaining student mentoring systems. Interacting with parents and other citizens.
	 Preparing information to be disseminated to parents, students, other stakeholders and public. Preparing special reports and bulletins for general distribution. Determining the need and planning for facility maintenance, and renovation expansion. Determining specifications for equipment and suppliers. Inventorying and distributing supplies and equipment. Preparing reports/grant applications for AICTE, DTE, University, etc.
HoDs	• The Head of every Department shall act under the General supervision and Control of the Director / Principal of the College and his duties and function shall be to administer the academic and administrative affairs of the Department concerned in accordance with the guidance of the Director/Principal and as per the policy of the authority.

- HODs will actively participate in Teaching, Research, Publication, Real world knowledge application and administrative work in the departments.
- In addition to the allotment of classes to the teachers, he / she shall assess the workload of the teachers, lab Instructors and other technical persons in the department, requirements of staff members etc. He / She shall also maintain a liaison with the other departments. He / She shall keep vigil about the quality teaching in every theoretical & practical subject as per syllabi of the University. The HOD shall ask the teachers to prepare lesson planning on each subject and he / she shall monitor whether the scheduled is maintained. He / She shall prepare a list of the equipment, books etc. well before the beginning of the semester and forwarded straight to the Director/Principal for early procurement. He / She shall take care of conducting all the examinations, evaluation methods, keeping all records of examinations as per regulations under the guidelines of the Director/Principal. In any case of urgency or anything related to academic affairs which are not mentioned above the HOD shall take advice from the Director/Principal and shall take necessary steps.
- As a part of academic affairs, the HODs will impart knowledge to the students by taking classes, to take tutorial and remedial classes on regular basis, need based laboratory development and Lab classes, conducing evaluation of the students and so on.
- As part of Real-world knowledge Application, HOD shall encourage consultancy and project work amongst faculty members as per norms in consultation with the Director/ Principal. The said activities, progress and achievement are recorded in the meeting of the Departmental Committee. HOD will also ensure that at least one seminar of State level is organized by the College in each semester. HOD will also ensure that Faculty members are engaged in development of

quality study materials, course materials, lesson plan, model question, answer etc on regular basis and those are uploaded into MIS Server of the College. Total implementation of online teaching learning process with full participation of the faculty members and all sections of students.

- HOD will also ensure that senior faculty members hold regular (i.e., two meetings in each semester) interaction with Class Representatives (CR) to resolve ongoing issues and healthy student-teacher relationship is maintained with all dignity.
- HOD will provide effective leadership towards industry Institution partnership. Organization of special lectures, seminar, workshops by the industry professionals for total development of the future professionals.
- HOD will give advice & suggestion regarding purchase and preservation in the Departmental Library of books or other resources pertaining to his sphere of learning to the Librarian.
- As far as management of the academic affairs of the Department concerned, he shall act in consultation with Departmental Committee, The Departmental Committee shall meet at least once in a month, which shall be convened by the Head of the Department concerned with the agenda and the time of the meeting being decided upon in the preceding meeting so that no notice is circulated. The names of the members of the intradepartmental committee have to be submitted to the Director/ Principal at the beginning of each Semester.
- Faculty/Teaching Skill Development Program to be planned by the HOD based on need analysis of all the concerned faculty and technical staff members.
- HOD has to ensure that required data are duly uploaded in ERP portal by all the Faculty Members.
- Any other responsibility given by the Director/Principal.

	• HOD shall encourage faculty members to do PhD and must
	involve themselves in research activities along with publication
	of research work.
T & P Officer	• The Training & Placement Officer will be responsible for all
	activities related to training of the students to enhance their
	interview winning skill in consultation with the Director /
	Principal and Head of the Central Placement Cell (if any),
	Registrar/ Administrative Officer, H.O.D.
	• The Training & Placement Officer will be responsible to keep
	close Co-ordination with the Director/ Principal and Head of the
	Central Placement Cell (if any), Registrar/ Administrative
	Officer and HOD.
	• The Training & Placement Officer shall maintain all database
	of the students necessary for placement of the students.
	• The Training & Placement Officer will take the initiative to
	make visit to different Companies in order to build up a good
	Industry institute relationship.
	• The Training & Placement Officer before taking any final
	decision shall always consult the Director/Principal and the
	Head of the Central Placement Cell (if any).
	• The Training & Placement Officer should keep the students
	informed about all activities of his/her Cell, which are related to
	students training & placement.
	• He/She will maintain all records needed by the corporate for
	placement of the students.
	• He/She will submit regular statement reports to the Director/
	Principal regarding the expenditure in his/her Cell.
	• He/She will be ready to accept and execute any responsibility
	given by the Director / Principal or by the Head of the Central
	Training & Placement Cell in matters related to Training &
	Placement.
	• The Training & Placement Officer will report to the
	Director/Principal.
	·

Librarian	• Librarian will Manage the planning, administrative and
	budgetary functions of library and information services
	including
	• Establish and implement library and information policies and
	procedures
	• The person will be responsible for procurement planning in
	consultation with respective HODs and the Director/Principal.
	• Develop and manage convenient, accessible library and
	information services
	• Prepare and manage the budget for library and information
	services, technology and media
	• Develop and manage cost-effective library and information
	services, technology and media
	• Order materials and maintain records for payment of invoices
	• Analyze and evaluate library and information services,
	technology and media service requirements
	• Prepare reports related to library and information services,
	technology and media services, resources and activities
	• Smooth & effective operation of the library
	 Procurement planning in consultation with Director/ Principal
	and HOD
	• Software Implementation/up gradation.
	• Librarian will provide effective access to library collections and
	resources, maintain the organization of library materials.
	• Provide library services in response to the information needs of
	library users and perform other related duties.
	• Any other responsibility given by the Director /Principal and
	HOD.

Rules, procedures, recruitment, and promotion policies

Institute has published the revised 'Service Rules' on 01.07.2018.

Procedure for recruitment of staff members:

- All appointments: Permanent, contractual and temporary to fill up any category of post in the College shall be made by Director-Society on the recommendation of the Selection Committee to be constituted as per regulatory Norms.
- All new appointments required to be endorsed in the following meeting of the Board of Governors of the College.
- Part-time and/ or Guest Faculty: The Principal of the Institution may from time to appoint, under exceptional circumstances, part-time and / or Guest faculty, fulfilling minimum norms, for handling theoretical sessions/lab / workshop assignments on honorarium basis that may be decided by the authorities.
- Direct Recruitment As per regulatory norms and strictly on merit: For selection of faculty members and staffs, advertisements are to be notified in the Website of Asansol Engineering College or in Newspaper. For appointment of any category of staff, a Selection committee is to be constituted as per norms for each position to select eligible candidates purely on merit, academic record and other eligibility criteria for each position.
- A Selection Committee is formed as per the norms of the regulatory body including the Subject expert. The selection committee will choose the candidates based on applicants and will recommend the best suitable for the post based on the post record and face to face performance. The Subject expert may include internal subject expert, i.e., expert from the College / or External subject expert which means expert form the other university / institutions of repute /Industry. The panel of the selected candidates will be valid for six months.
- Recommendation of Selection committee will be final subject to the approval of the BOG. In case, any kind of misinformation declared by the candidate is noticed even after the appointment or joining or confirmation of job, the appointment may be cancelled summarily depending upon the gravity and nature of the misinformation/ hiding of facts.
- Director-Society alone can issue the appointment letter. The new appointments may be in Scale or in consolidated basis for any posts case as per requirement, irrespective of others already in that post / similar post are in Scale or Consolidated pay
- Probation: An employee appointed either as a faculty or as a non-teaching staff shall remain on probation as may be defined in his appointment letter. Typically, the probation period will be for a period of one year. In case the performance of the

candidate is unsatisfactory and / or inefficiency in handling the allotted assignment, his probation may be extended or his service may be terminated during the probation period by giving one months' notice in writing or one months' salary, in lieu of.

Extension of probation will not be allowed for more than once.

Extension of Probation period is not a right to the candidate but might be considered by Authority / Society.

- Period of probation may also be relaxed in exceptional circumstances at the discretion of the Appointing Authority / Society. In exceptionally deserving cases, the Authority / Society may waive the Probation period of an employee at the time of appointment.
- The Employee appointed under contract will be excluded from terms of probation. Terms of Contract will guide contractual appointment only.
- The contract will be valid up to the specified tenure only. The contract will be automatically terminated on the expiry of the contract period unless renewed further.
- Confirmation: On completion of stipulated period of probation the performance will be evaluated as per appraisal procedures. Depending upon performance report he will be eligible for confirmation of service.
 - a) On confirmation he will be either placed on suitable scale or consolidated salary depending on performance report and the discretion of the Authority / Society.
 - b) In case, a staff member does not receive a letter of confirmation from the Institution in time, his service in the College would not be deemed to have been confirmed and it shall be presumed that his period of probation has been extended.
 - c) Performance appraisal for all faculty and non-teaching staff is mandatory prior to confirmation of service. No person will be confirmed without performance appraisal. It will solely depend on total performance evaluation by Principal and HoD followed by personal appraisal held by the Appraisal Committee. The Chairperson of the Appraisal Committee will have to be duly appointed by Authority / Society who will have to be an experienced academician of repute, i.e. of a Senior Professor level.

Procedure for promotion of Staff Members:

Promotion will be carried out only for Regular Employees. Probationers, Temporary Employees and Contractual Employees will not be eligible for promotion.

- Acquiring eligible qualification, Annual Performance review report and experience will be considered during the promotion review, however they do not establish right to be promoted to higher cadre. Depending upon available vacancy and other criterion, the candidate will be considered along with other eligible candidates who have applied for the position.
- If disciplinary proceedings have been initiated against an employee or if an employee is suspended because of any reason, he will not be eligible for promotion till such proceedings are over or suspension is withdrawn.
- In case of a record of violation of code of conduct in last three years, an employee will not be eligible for promotion.
- > Promotion of Faculty positions will be decided as per the following procedures:
 - Availability of sanctioned vacant posts is to be decided by the Governing Body.
 - Governing Body will constitute a Selection Committee for consideration of internal cases fit for promotion to fill up the vacant sanctioned posts.
 - On fulfillment of stipulated condition of regulatory body and / or norms of the College, the candidate will be eligible to appear before Selection Committee.
 - An employee who had awarded a "Poor" or "Unsatisfactory" rating in any of the last three Annual Performance Reviews will not be eligible for promotion unless he had acquired two "excellent ratings" out of which, one has to be in last performance review.
 - Application of eligible candidates will be scrutinized by the Selection Committee. The Committee will consider the points as mentioned along with other points decided by the Selection Committee.
 - Selection Committee will conduct personnel interviews/ test of the eligible candidates and their opinion including Annual performance review report, which will be placed before the authority for appropriate decision regarding promotion including the date from which the order will be effective. The Principal will be informed about the decision taken on the annual performance review report of a candidate (if needed).
 - Based on the recommendation of the selection committee the competent authority may issue the promotion order to the deserving candidates.
 - It is not mandatory or essential for the competent authority to fulfill the vacant posts from the internal applicants. The authority has full liberty to fill up all the vacant positions through external candidates.

Promotion of non-Teaching Employees will be decided as per the following procedures:

- Availability of sanctioned vacant posts is to be decided by the Governing Body.
- Governing Body will constitute a Selection Committee for consideration of internal cases fit for promotion to fill up the vacant sanctioned posts.
- On fulfillment of stipulated condition of regulatory body and / or norms of the College, the candidate will be eligible to appear before Selection Committee.
- An employee who had been awarded a "Poor" or "Unsatisfactory" rating in any of the last three Annual performance reviews will not be eligible for promotion unless he had acquired two excellent rating out of which, one has to be in last performance review.
- Application of eligible candidates will be scrutinized by the selection committee. Promotion of a non-teaching staff to higher scale shall be as far as possible on senioritycum-merit basis. The committee will consider the seniority and Annual performance review report along with other points decided by the Selection committee.
- Based on the recommendation of the selection committee the competent authority may issue the promotion order to the deserving candidates.
- It is not mandatory or essential for the competent authority to fulfill the vacant posts from the internal applicants. The authority has full liberty to fill up all the vacant positions through external candidates.

10.1.3. Decentralization in working and grievance redressal mechanism (10)

The different committees are formed with members from different sections to run the administrative and academic activities of the institution. The committee is comprehensive and cover every aspect of administrative and academic activities undertaken by the institution. The structure of different committees has been formed following stipulated guidelines wherever applicable. The committee show the participation of personnel from all departments and sections for the required function and identify the administrative and academic decision makers for various responsibilities. The different BoG approved Committee are: Academic Committee, Finance Committee, Internal Quality Assurance Cell, Library Committee, ICC, IIPC, R & D committee, Anti-Ragging Committee, Grievance Cell, Alumni Association, Admission Committee, Sports Committee, Cultural Committee, Techno Scientific Committee etc.

List of faculty members who are administrators / decision makers for various assigned jobs.

Sl.	Name	Responsibility
No.		
1	Prof. (Dr.) Parth Pratim	Principal
	Bhattacharya	
2	Dr. Sandip Haldar	Registrar
3	Dr. Debashis Sarkar	Convener, Academic Committee
4	Dr. Sandip Haldar	Member Secretary, IQAC
5	Mr. Tarunava Ghosh	Head Accountant
6	Dr. Debashish Chakraborty	HoD, Computer Science & Engineering
7	Dr. Debashis Sarkar	HoD, Mechanical Engineering
8	Dr. Arunava De	HoD, Electronics & Communication Engineering
9	Dr. Rajan Sarkar	HoD, Electrical Engineering
10	Dr. Dibyendu Kumar Pal	HoD, Computer Application
11	Dr. Anup Kumr Mukhapadhyay	HoD – In - Charge, Information Technology
12	Mr. Biplab Saha	HoD, Civil Engineering
13	Dr. Sandip Haldar	HoD, BS & HU
14	Mr. Bidyut Patra	Librarian
15	Dr. Arunava De	Coordinator, R & D Committee
16	Mr. Gurjeet Singh	Head, HR Section
17	Mr. Sujoy Kumar Basu	Admission – In - Charge
18	Mrs. Debika Chatterjee	Training & Placement Officer
19	Dr. Animesh Upadhyay	Officer – In – Charge, Examination
20	Dr. Krisnendu Pobi	Coordinator, Mentorship Committee
21	Mr. Soumen Sen	Coordinator, ED Cell
22	Dr. Ramesh Prasad Saha	Coordinator, IIP Cell
23	Dr. Gouri Sankar Panda	Convener, Anti – Ragging Committee
24	Dr. Anup Kumr Mukhapadhyay	Convener, GRC
25	Dr. Mithu Dey Sarkar	Presiding Officer, ICC
26	Mr. Soumen Sen	Coordinator, Techno Scientific Committee
27	Mr. Hirak Gupta	Coordinator, Cultural Committee
28	Mrs. Seuli Chakraborty	Coordinator, Women Cell

29	Mr. Sambit S Mondal	Sports – In - Charge
30	Mr. Ashish Banerjee	Project Engineer

Grievance Redressal Mechanism:

The institution has a well-defined grievance redressal mechanism in place. Decentralized functioning being quite effectively practiced, the redressal of majority of the grievances is eventually taken care of by the respective departments and the faculty members. A few common grievances are dealt with from the level of the HoD / College authorities (Principal /Administrator / Registrar) who actively interacts with the students to help them sort out their grievances. It attends to both registered and unregistered grievances of the students. To take care of any major grievance, a central Grievance Redressal Committee (GRC) is constituted. Internal Complaint Committee is in place to address matters related to gender discrimination, sexual harassments etc. The issues related with ragging of students are addressed by the Anti-Ragging Committee. To address any affair related to discrimination with the person belongs to SC/ST community, SC/ST Committee is in place. Students are free to share their views/grievances/suggestions with the mentors, faculty members, HoD, Registrar, Administrator as well as the Principal of the institute. Apart from this, students can drop their grievances/complaints/suggestions in the suggestion box if they don't want to reveal the grievance in person. Such complaints are forwarded to the concerned committee for time bound resolutions. The functioning and composition of different grievance redressal machineries are given below -

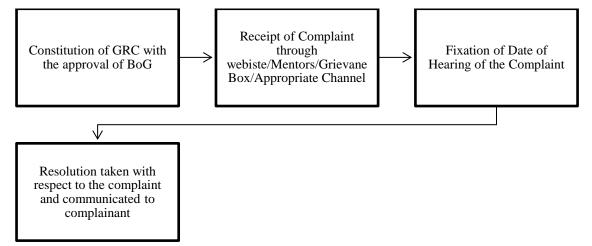
Sl. No	Name	Designation	Nature
1	Dr. P. P. Bhattacharya	Principal	Chairperson
2	Dr. Anup Kumar Mukhopadhyay	Prof. & HoD, IT	Convener
3	Dr. Asit Kumar Gupta	Prof., BS&HU	Member
4	Mrs. Khusi Banerjee	Asst. Prof., ECE	Member
5	Mr. Sourav Kairi	CSE (Batch- 2018-22)	Member

Grievance Redressal Committee (GRC)

Tenure of Members: Two year for nominated members.

Meeting: At least once in a semester and as and when necessary.

Procedure:



Action taken by GRC:

Year	No of Complaints	No of Complaints	Action Taken
		resolved	
2020-21	0	0	NA
2019-20	0	0	NA
2018-19	0	0	NA
2017-18	1) Complaint was related	1) Resolved	Adjusted Money as per
	with refund against cancellation of admission. (25/04/2018)	(30/05/2018)	the norms was refunded.
	2) Complaint was related with refund against cancellation of admission (03/08/2017)	2) Resolved (25/08/2017)	Adjusted Money as per the norms was refunded.

Internal Complaints Committee (ICC)

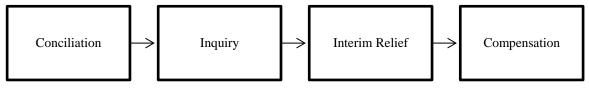
Sl. No	Name	Designation	Nature	
1	Dr. Mithu Dey Sarkar	Asso. Prof. BS & HU	Presiding Officer	
2	Mrs. Agamani Chakraborty	AP, EE	Faculty Representative	
3	Mrs. Seuli Chakraborty	AP, IT	Faculty Representative	
4	Mrs. Sruti Choudhury	Office Assistant	Non-Teaching	
			Representative	
5	Mrs. Anandita Srivastava	PA to Principal	Non-Teaching	
			Representative	
6	Ms. Ashmita Bhattacharya	CSE, 2 nd Year	Student Member	

7	Ms. Sriza Malakar	CSE, 3 rd Year	Student Member
8	Ms. Swati Das	IT, 1 st Year	Student Member

Terms of members: Three year for nominated members

Meetings: As and when necessary

Procedure:



Number of complaints of sexual harassment received in the year: Nil

Number of orientation or training Programmes carried out for the members of the ICC to deal with complaints: 01

Number of complaints disposed of during the year: Nil

Number of cases pending for more than 90 days: Nil

Number of workshops or awareness Programme carried out for the officers, functionaries,

faculty and students to sensitize them against sexual harassment: 01

Nature of action taken by the Technical Institution against the perpetrator: Not required

Anti-Ragging Committee (ARC)

Sl. No	Name	Category	Nature
1	Prof. (Dr.) P. P. Bhattacharya	Principal	Chairperson
2	Mr. Atindra Narayan	Advisor (A & D)	Member
	Choudhury		
3	Dr. G. S. Panda	Registrar	Convener
4	Mr. Chinmoy Chakraborty	I/C Kanyapur Police Station	Member
5	Mr. Anshuman Dutta, WBCS	Dy Magistrate, Paschim Bardhaman	Member
6	Mr. Bani Mondal	Advocate	Member
7	Mr. Satyendra Kr. Turi	Bureau Chief, Journalism Today	Member
8	Mr. Saikat Chatterjee	Parent	Member
9	Dr. D. Sarkar	HoD, ME	Member
10	Mr. Sambit S. Mondal	HoD, ECE	Member
11	Dr. Dibyendu Kuamr Paul	HoD, CA	Member

12	Dr. A. Upadhyay	Prof, BS & HU	Member
13	Dr. Mithu Dey	Warden	Member
14	Mrs. Agamoni Chakraborty	AP, EE	Member
15	Mr. Amitava Chakraborty	Warden	Member
16	Mr. Bidyut Kr. Patra	Librarian	Member
17	Mrs. Sruti Choudhury	Office Assistant	Member
18	Mr. Siddhant Trivedi	Senior Student	Member
19	Mr. Ronit Banerjee	Senior Student	Member
20	Ms. Rubina Das	Junior Student	Member
21	Ms. Triya Mohanto	Junior Student	Member

Terms of members: One year for nominated members

Meetings: As and when necessary

Functions:

- Arrange campaigning, counseling and growing awareness through display or otherwise against the evils of ragging, its severity as a criminal offence and the associated punishments, when found guilty.
- > Conduct enquiry of all reported cases and /or complaints received in any form.
- Making the BOG aware through the Principal the findings and the punitive action to be taken, if any.
- > Evolve and suggest means to take preventive measures against ragging.

Year	No. of	No. of	Action taken
	Complains	Complains	
		Resolved	
2020-21	0	0	NA
2019-20	07.08.19	07.08.19	The fact was not identified. Complaint was not justified. Suggested that Anti ragging Squad members will act seriously.
	21.08.19	22.08.19	Victim and accused both the students were identified and they were accepted about their mistake. Both the students were counseled.

Action taken by Anti-Ragging Committee:

	1	1	
	17.09.19	19.09.19	It was the same incident (happened on 21.08.19). Same report was sent to the Anti Ragging helpline.
2018-19	09.10.18	26.10.18	2 students were suspended from college for 1 month and warning letter was issued to them.
	25.01.19	06.02.19	2 students were suspended from college for 15 days. Informed to local police station. Undertaking was received from the students and their parents.
	18.03.19	29.03.19	1 student was suspended from college for 1 month. Informed to local Police Station.
	17.05.19	21.05.19	Victim and accused were not identified. A committee was constituted to counsel the hostellers.
2017-18	30.07.17	04.08.17	Formed an investigation committee by the members of Anti ragging Committee. No authenticated facts identified and Anti-ragging Cell closed the complaint.
	02.11.17	08.11.17	Immediately a FIR was filed against a student and he was suspended from the hostel.

10.1.4. Delegation of financial powers (10)

The institute has the finance committee is in place to address all the affairs related to monetary policy of the institution under the supervision of BoG. The composition, tenure, and functioning of the finance committee is as follow:

Sl No	Name	Category	Nature
1	Prof. (Dr.) P. P. Bhattacharya	Principal	Chairperson
2	Mr. Atin Choudhury	Advisor (A & D)	Member
3	Dr. G. S. Panda	Registrar	Convener
4	Mr. Biswajit Maity	BoG Nominee	Member
5	Dr. Rajan Sarkar	HoD, EE	Member
6	Mr. Tarunava Ghosh	Head Accountant	Member

Terms of Members:

The terms of the nominated members will be for a period of two years.

Meeting:

The committee will meet at least 2 times a year before the BoG meeting for recommending its resolutions to the BoG for consideration.

Functions:

- Budget preparation & Finance Planning
- Budget Allocation
- Recommend the Budget BoG for approval.
- Re-appropriation of funds of different Heads of the Budget with approval of the BoG.
- Budget estimates relating to the grant received / receivable from the UGC, and income from fees and other sources collected for smooth operation of the college.
- Advise the BoG on any matter involving finance.

Distribution of Financial Autonomy

BoG has approved financial autonomy to the following extent at different levels of hierarchy of the institute.

Sl. No.	Position	*Approval Power (financial) in Rs. Cash expenditure
		authority (impressed cash) in Rs.
1	Principal	50 thousand
2	Administrator	20 thousand
3	Registrar	20 thousand
4	HoD	10 thousand

*Note: Subject to change on timely basis

10.1.5 Transparency and availability of correct / unambiguous information in public domain (5)

Institution is ready to give reply on any query/ grievance. Anyone can ask the question through online mode after registering himself/ herself. This facility is available in the college website. The queries are answered back appropriately, after due consideration, in reply.

The Institute provides correct/ unambiguous information as and when it is demanded. The Institute functions with perfect decentralized administration that has complete transparency

in its functioning. Dissemination and availability of institute / program specific information through the web:

- The Institute has its own website which is updated periodically as and when required. The Institute and the program-specific information is made available to all aspirants through the web- site.
- The web site URL is: www. aecwb.edu.in

10.2 Budget Allocation, Utilization, and Public Accounting at Institute level (30)

10.2.1 Adequacy of budget allocation (10)

The allocation of budget under different heads was adequate for meet the demands of the Institution.

The allocation of budget is sufficient for conducting the academic, Infrastructural developments, Modernization and R&D activities.

10.2.2 Utilization of allocated funds (15)

The fund provided was almost fully utilized.

Summary of current financial year's budget and actual expenditure incurred (for the institution exclusively) in the three previous financial years

Total Income at Institute level: For CFY, CFYm1, CFYm2 & CFYm3 CFY: (Current Financial Year), CFYm1: (Current Financial Year minus 1), CFYm2: (Current Financial Year minus 2) and CFYm3: (Current Financial Year minus 3)

Table 1 - CFY 2021-22

Total Income (Proposed)2619	62738.	39		Actual expenditure: 180579544.00			Total No. Of Students 2539
Fee	Govt.	Grants	Other sources(specify) interest from saving accounts and fixed deposits	Recurring including salaries	Non- Recurring	Special Projects/Any other, specify	Expenditure per student
238288344.00	0.00	0.00	23674394.39	4060106.00	176519438.00	0.00	71122.31

Table 2 - CFYm1 2020-21

Total Income 24	4157991	17.25		Actual expenditure 207929789.00			Total No. Of Students 2506
Fee	Govt.	Grants	Other sources(specify) interest from savings account and fixed deposits	Recurring including salaries	Non- Recurring	Special Projects/Any other, specify	Expenditure per student
223302309.95	0.00	0.00	18277607.30	184047923.00	23881866.00	0.00	82972.78

Table 3 - CFYm2 2019-20

Total Income 2	Dome 274548323.72 Actual expenditure 221752698.20		ure		Total No. Of Students 2654		
Fee	Govt.	Grants	Other sources(specify) interest from savings account and fixed deposits	Recurring including salaries	Non- Recurring	Special Projects/Any other, specify	Expenditure per student
258790813.36	0.0	0.0	15757510.36	194496756.20	27255942.00	0.0	83554.14

Table 4 - CFYm3 2018-19

Total Income 26	118351	9.70		Actual expenditure 218391101.00			Total No. Of Students 2867
Fee	Govt.	Grants	Other sources(specify) interest from savings account and fixed deposits	Recurring including salaries	Non- Recurring	Special Projects/Any other, specify	Expenditure per student
246890813.36	0.0	0.0	14292706.34	184240545.00	34150556.00	0.0	76174.08

Items	Budgeted in 2021-22	Actual Expense s in 2021-22 till Feb 2022	Budgeted in 2020-21	Actual Expenses in 2020-21	Budgeted in 2019-20	Actual Expenses in 2019-20	Budgeted in 2018-19	Actual Expenses in 2018-19
Infrastructur e Built-Up	8360000.00	1130530	9511000.00	8829746.00	16979000.0 0	16048500.0 0	24601000.0 0	23745246.0 0
Library	2024000.00	791902	2180000.00	2082442.00	3326000.00	3170583.20	3567000.00	3448761.00
Laboratory equipment	12355000.0 0	2137674	15942000.0 0	15052120.0 0	11201000.0 0	10492825.0 0	9420000.00	9244995.00

Laboratory consumable s	1536000.00	1490966	1202000.00	1121897.00	2887000.00	2739180.00	2778000.00	2626542.00
Teaching and non- teaching staff salary	153226000. 00	1406316 61	142372000. 00	131324292. 00	136579000. 00	130597015. 00	130885000. 00	126356228. 00
Maintenanc e and spares	7764000.00	2745802	7807000.00	7354659.00	7462000.00	7113031.00	9482000.00	9116924.00
R&D	10022000.0 0	5206659	7790000.00	7209228.00	12042000.0 0	11597333.0 0	8582000.00	8140111.00
Training and Travel	21770000.0 0	1063309 0	17477000.0 0	16620698.0 0	21534000.0 0	20433396.0 0	18552000.0 0	17869171.0 0
Miscellaneo us Expenses	6438000.00	6653628	9657000.00	9089444.00	10060000.0 0	9443543.00	8830000.00	8357180.00
Others Administrati ve Expenses	12799000.0 0	9157632	9710000.00	9245263.00	10670000.0 0	10117292.0 0	9929000.00	9485943.00
Total	236294000. 00	1805795 44	223648000. 00	207929789. 00	232740000. 00	221752698. 20	226626000. 00	218391101. 00

10.2.3 Availability of the audited statements on the institute's website (5)

Yes, available.

10.3 Program Specific Budget Allocation, Utilization (30)

10.3.1 Adequacy of budget allocation (10)

- The allocation of budget was adequate for conducting the academic and R&D activities.
- The department improved the lab teaching and other academic activities using this fund.
- Departmental infrastructure was improved also.
- A brief account of few such improved activities is mentioned below:
- Planning and execution of the laboratory maintenance.
- Improvement of the laboratory programs.
- Introduction of innovative experiments in the laboratories

10.3.2 Utilization of allocated funds (20)

Referring to the table has been given in section 10.3, it is seen that the allocated

Total Income at Institute level: For CFY, CFYm1, CFYm2 & CFYm3

CFY: (Current Financial Year),

CFYm1: (Current Financial Year minus 1),

CFYm2: (Current Financial Year minus 2) and

CFYm3: (Current Financial Year minus 3)

Table 1: CFY 2021-22

Total Budget: 7677000.00		Actual expenditure: 5012815.00		Total No. Of Students: 665
Non-Recurring	Recurring	Non-Recurring	Recurring	Expenditure per student
3029000.00	4648000.00	662000.00	4350815.00	7538.06

Table 2: CFYm1 2020-21

Total Budget: 9269866.00		Actual expenditure 8745732.00		Total No. Of Students: 595
Non-Recurring	Recurring	Non-Recurring	Recurring	Expenditure per student
4696000.00	4573866.00	4434085.00	4311647.00	14698.71

Table 3: CFYm2 2019-20

Total Budget: 7988897.00		Actual expenditure 7548938.80		Total No. Of Students 522
Non-Recurring	Recurring	Non-Recurring	Recurring	Expenditure per student
1912000.00	6076897.00	1791365.00	5757573.80	14461.57

Table 4: CFYm3 2018-19

Total Budget: 6843152.00		Actual expenditure 6605191.00		Total No. Of Students 528
Non-Recurring	Recurring	Non-Recurring	Recurring	Expenditure per student
1862000.00	4981152.00	1827067.00	4778124.00	12509.83

Items	Budgete d in 2021-22	Actual Expense s in 2021-22 till Feb 2022	Budgete d in 2020-21	Actual Expense s in 2020-21	Budgete d in 2019- 20	Actual Expenses in 2019- 20	Budgete d in 2018- 19	Actual Expense s in 2018-19
Laboratory equipment	3029000	662000	4696000	4434085	1912000	1791365	1862000	1827067
Software		0		0		0		0
Laboratory consumable	160000	145789	149000	140108	361000	341726.70	344000	325454
Maintenance and spares	92000	85321	118000	112575	115000	109296	105000	101200
R & D	1335000	1235456	1194000	1104788	1850000	1781915.4 0	1307000	1254870
Training and Travel	2695000	2535689	2473866	2352647	3089897	2904503	2645152	2547810
Miscellaneou s expenses	366000	348560	639000	601529	661000	620132.70	580000	548790
Total	7677000	5012815	9269866	8745732	7988897	7548938.80	6843152	6605191

10.4 Library and Internet (20)

10.4.1 Quality of learning resources (hard/soft) (10)

Library Facilities (Space, timings etc.):

Area of library (in sqm)	2007 sqm
Reading space (in sqm)	197 sqm
Number of seats in reading room	150
Number of user (book issue) per day	80
Number of users (reading room) per day	110
Timing	8:00 am to 8:00 pm on all working days
Number of library staff	6
Computerization for search, indexing, and issue/return record	Available
Bar coding used	Yes
Library services on Internet/Intranet INDEST or other similar membership archives	Yes

<u>Titles and Volumes (in Library):</u>

Number of titles: 7158

Number of volumes: 65142

Year	New titles	New volumes
2017-2018	32	445
2018 - 2019	47	480
2019 - 2020	30	473

<u>Scholarly Journal Subscription:</u>

	Details	CFY	CFY m1	CFY m2	CFY m3
Engineering &	As soft copy	497	497	497	497
Technology	As hard copy	16			

Yes

No

Yes

Yes

CSE, IT, ECE, EE, ME, CE

1125 (Springer)

20 (average)

Digital Library Details:

- Availability of Digital Library Content:
- If available, mention name of courses:
- Number of e-books:
- Availability of an exclusive server:
- Availability over Intranet/Intranet:
- Availability of exclusive space /room:
- Number of users per day:

<u>Library Expenditure (books, magazines/journals etc.)</u>

Year		Expenditure	
	Books	e-journals	Magazines etc.
2020-2021	-	19,11,380	-
2019-2020	1,95,698	20,73,226	50,543
2018-2019	1,54,286	19,23,783	49,213

Quality of Learning Resources:

Relevance of available learning resources including e-resources: Yes, in both forms

Sl. No.	Learning Resources	Correlation with POs & PSOs
1	IEEE ASPP Online Journals	PO1, PO2, PO5, PO6, PO7, PO8, PO9, PO12, PSO1, PSO2
2	NPTEL (MOOC) Courses	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO12, PSO1, PSO2, PSO3

3	CDs of Video Lectures	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO3
4	66074 books (Central library)	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO3
5	Departmental libraries with program specific reference books	PO1, PO2, PO5, PO6, PO7, PO8, PO9, PO12, PSO1, PSO2
6	Course specific lecture materials in institute website	PO1, PO2, PO5, PO6, PO7, PO8, PO9, PO12, PSO1, PSO2
7	Video recording of specific courses	PO1, PO2, PO5, PO6, PO7, PO8, PO9, PO12, PSO1, PSO2

Accessibility to students: Yes

Sl. No.	Learning Resources	Accessibility
1	IEEE ASPP Online Journals	During college hours
2	NPTEL (MOOC) Courses	During college hours
3	CDs of Video Lectures	During college hours
4	Central Library	During library working hours
5	Departmental library with program specific reference books	During college hours
6	Course specific lecture materials in institute website	Anytime from anywhere
7	Video recording of specific courses	During class hours and beyond

<u>Support to students for self-learning activities:</u>

Wi-fi enabled Campus

Internet connectivity

Exclusive internet laboratory for students

Digital Library with internet connectivity - Access during library working hours

Well-equipped library – Access during library working hours

Web based learning

Innovation and Incubation Cell with internet connectivity

Free and open learning environment

Photo gallery: Library



10.4.2 Internet (10)

Name of the Internet Service Provider: Railtel Corporation of India Ltd. & Vodafone Idea Ltd. & Indinet Service Pvt. Ltd.

Available Bandwidth: 582 Mbps

Redundancy in Fiber Optical cable connection from Internet Service Provider for Uninterrupted Internet Availability.

Redundancy in Internet Proxy Server for Uninterrupted Internet Availability with Users, Bandwidth Control and Monitoring, Firewall, DoS Protection, VPN, Web Control / Category-Based Web Filtering, Application Control, and WAN Optimization.

Redundancy in Uninterrupted Power Supply.

24 X 7 Uninterrupted Internet Availability in Labs, Classrooms, Hostels, Library, and Offices by LAN.

Hotspots and WiFi Enable Campus.

WiFi Availability: 582 Mbps

Students and Stuffs can able to access Internet from anytime, anywhere.



ASANSOL ENGINEERING COLLEGE

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Declaration

I undertake that, the institution is well aware about the provisions in the NBA's accreditation manual concerned for this application, rules, regulations, notifications and NBA expert visit guidelines in force as on date and the institute shall fully abide by them.

It is submitted that information provided in this Self-Assessment Report is factually correct. I understand and agree that an appropriate disciplinary action against the Institute will be initiated by the NBA, in case any false statement/information is observed during pre-visit, visit, post visit and subsequent to grant of accreditation.

Date: 15/03/2022 Place: Asausel



Prof. (Dr.) P.P. Bhattacharya Principal Principal Asanool Engineering College



Annexure – 1

List of Program Outcomes (POs)

PO-1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO-2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO-3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO-4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO-5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO-6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO-7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO-8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO-9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO-10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO-11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO-12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.