

ELECTRO NEWS

Volume – 01, Issue - 1, 2016

Research Publications by the faculty members of ECE department:

1. Banerjee, Khushi, and Sajal K. Paul. "Negative inductance and immittance simulators employing differential voltage current conveyor." In 2016 International Conference on Microelectronics, Computing and Communications (MicroCom), pp. 1-4. IEEE, 2016. doi: 10.1109/MicroCom.2016.7522462(Scopus Indexed).
2. S. Kumar, S. Sen and M. K. Das "A comparative analysis of the photoluminescence spectra of annealed ultrasmall In-rich InGaN/GaN quantum dots and wells" Optik - International Journal for Light and Electron Optics.,Vol.-127, Issue-14,Page-8654-8661,July,2016.
3. S.Haldar, S.S.Mondal, Amit Kumar Rai and C.S. Singh, "Fabrication of Macroporous Silicon and its Electrical Behaviour Study with Acetone", Journal of Communication And Computing Systems, CRC Press(Taylor & Francis), p.p. no. 741– 743, November 2016.

Please send ideas for improvement to.

email: newsletter.ece.aec@gmail.com

The Newsletter is published by the ECE department of Asansol Engineering College.

Editor: Mr. Biplab Bhowmick

Student Editors: Mr. Pratim Prakash Dhara, Ms. Prerana Jha

ELECTRO NEWS

Volume – 02, Issue - 2, 2017

Event:

National Level Model Competition “Electronics Innovation 4.0” an Inter college event conducted by ECE department from 9-10th March, 2017.



Student Achievements:

1. Arpita Sinha (Roll – 10800313023) qualified for GATE/PGET
2. Himanshu Shekhar (Roll – 10800313046) qualified for GATE/PGET
3. Anouska Dey Sarkar (Roll – 10800314127) qualified for GATE/PGET
4. Chanda Kumari (Roll – 10800314128) qualified for GATE/PGET
5. Kundan Ganguly (Roll – 10800314134) qualified for GATE/PGET

Research Publications by the faculty members and students of ECE department:

1. Prajit Paul et.al- "A Concert Measure of GBN-ARQ Protocol in A Fading Network", Int'l Conference on Advances In Science & Technology, MCKVIE, Liluah, Howrah, W.B, (17 -19) March 2017.
2. Soumen Sen and Aishwarya Anu, "Strain Effect on InGaN/GaN Quantum Well", International journal of innovative research in science, engineering and technology, Vol. 6, Issue 5, May, 2017.
3. I Hussain, M G Tiary, "An Ultra wideband bandpass filter using stepped impedance resonators and DGS structures, International", Journal of Computer Engineering In Research Trends, Volume 4, Issue 5, , pp. 185-189, May, 2017.
4. SumantaKarmakar, Amit Kumar Rai and Sambit S Mondal, "Application Of Speaker Recognition On Biometric", International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC), Vol 4, Issue 5, p.p no. 393-395, May 2017.
5. Amit Kumar Rai, Rajnikant, Rohit Jaiswal, Nishta Shree, Paramita Paul and Rahul Dey, "Heart Attack Detection And Calling Medical Emergency System", International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC), Vol 4, Issue 6, p.p no 292-294, June 2017.

Faculty Development Program and Short-term course:

1. **Mr. Prajit Pal participated and completed successfully the course on "Cyber Physical Systems" conducted by IIT Kanpur, March 2017.**
2. **Mr. Shiv Charan Puri participated and completed the FDP on "Autonomous Robotics Workshop" conducted by Asansol Engineering College, May 2017.**
3. **Mr. Sambit S. Mondal participated and completed the FDP on "Autonomous Robotics Workshop" conducted by Asansol Engineering College, May 2017.**
4. **Mr. Bhaskar Roy participated in a short-term course on "LabView & VHDL applications in Engineering" conducted by NITTTR Kolkata, June 2017.**
5. **Mr. Prajit Pal participated and completed successfully the course on "Millimetre-Wave Circuits & Antennas for Short Range Communications" conducted by IIT Kharagpur, June 2017.**

Please send ideas for improvement to.

email: newsletter.ece.aec@gmail.com

The Newsletter is published by the ECE department of Asansol Engineering College.

Editor: Mr. Shiv Charan Puri

Student Editors: Md. Mohatasib Alam, Ms. Susmita Mukherjee

ELECTRO NEWS

Volume – 03, Issue - 1, 2017

Events:

1. IEI ECEian of the week an intra-college competition was conducted on 27th August 2017 by IEI Students Chapter, ECE Department.
2. Code Breaker 1.1 conducted by the Students' Innovation Centre of ECE department on 1st September, 2017.
3. Code Breaker 1.2 conducted by Students Innovation Centre of ECE department on 1st September, 2017.
4. National Level Workshop on "Methodology behind Drones" was conducted from 11-16th September, 2017.
5. Power point presentation competition was conducted on the eve of Engineers Day on 15th September, 2017.
6. IEI ECEian of week an intra-college competition was conducted on 31st October 2017 by IEI Students Chapter, ECE Department.
7. IEI ECEian of week an intra-college conducted on 21st November 2017 by IEI Students Chapter, ECE Department.



ASANSOL ENGINEERING COLLEGE

in Association with

EXPERTS INNOVATION

Experts Innovation
Fly to Unmanned Aviation

and



Organized By

Department of Electronics And Communication Engineering

A 6 DAYS NATIONAL LEVEL WORKSHOP ON

Methodology Behind DRONES

Eligibility:

Any One Interested in U.A.V's & Aeromodelling

VENUE:

Asansol Engineering College,
Vivekananda Sarani, Kanyapur,
Asansol - 713305

STARTS FROM

11-16 Sep, 2017

For Details & Registration

PRATIM PRAKASH DHARA
/ Technical Supervisor, SIC Lab, ECE, AEC
Contact No. 8348166744



The Institution Of Engineers (India) Students' Chapter
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



ASANSOL ENGINEERING COLLEGE

POWERPOINT PRESENTATION
COMPETITION FOR AEC STUDENTS



"ROLE OF ENGINEERS IN DEVELOPING COUNTRIES"

- Each team max. 2 members
- 10 Minutes will be allotted for each team
- Prelims on 1st September
- Top two team will be felicitated in Burnpur Club on 15th September on the eve of "Engineers' Day" celebration by IEI Local Centre

For registration contact Pratim Prakash Dhara (ECE 4th Year), 8348166744



Research Publication by the faculty members and students of ECE department:

1. Khushi Banerjee, Rupam Das, "A Simple Current Mode Schmitt Trigger Circuit Based on Single CCDDCCTA without Employing Any Passive Components", International Journal of Innovative and Emerging Research in Engineering, Vol.3, Issue 8, 2017.

Please send ideas for improvement to.

email: newsletter.ece.aec@gmail.com

The Newsletter is published by the ECE department of Asansol Engineering College.

Editor: Mr. Shiv Charan Puri

Student Editors: Md. Mohatasib Alam, Ms. Susmita Mukherjee

ELECTRO NEWS

Volume – 04, Issue - 2, 2018

Event:

1. Electronics Innovation 5.0, National Level Innovative Model Making Competition and Technical Symposium was held on 19th and 20th April, 2018.



2. Technical quiz competition under Electronics Innovation 5.0, National Level Innovative Model Making Competition and Technical Symposium was held on 19th and 20th April, 2018.
3. PPT competition under Electronics Innovation 5.0, National Level Innovative Model Making Competition and Technical Symposium was held on 19th and 20th April, 2018.
4. Debate competition under electronics innovation 5.0, National Level Innovative Model Making Competition and Technical Symposium in 19th and 20th April, 2018.
5. Technical abstract writing competition under Electronics Innovation 5.0, National Level Innovative Model Making Competition and Technical Symposium was held on 19th and 20th April, 2018.
6. ECEian of the Year Contest for ECEian topper of the week was held on 26th April, 2018 under IEI student's chapter.



7. Annual General Meeting of the IEI Student's Chapter, ECE Department for the election of new committee members was held on 26th April, 2018.

Research Publication by the faculty members and students of ECE department:

1. Shiv Charan Puri, Sushrut Das and Madan Gopal Tiary, "An UWB trapezoidal rings fractal monopole antenna with dual-notch characteristics", International Journal of RF and Microwave Computer Aided Engineering, Wiley, 28 March 2019. <https://doi.org/10.1002/mmce.21777> (SCI impact factor-1.472*, 2018).

2. Lipika Mondal, Sumanta Karmakar, Amit Kumar Rai, Sambit S. Mondal and Pratik Dey "First Order Filter Employing Operational Trans-resistance Amplifier Having Multi Input Single Output" in "International Journal on Future Revolution in Computer Science & Communication Engineering (IJFRCSCCE)" May, 2018. (ISSN : 2319-9725 peer reviewed).

3. Ashmi Chakraborty Das, Santanu Dwari, Amit Bage, "Aperture field estimation in E-plane and H-plane T-junctions using field theoretic analysis", Wireless Personal Communication, 98 (4), 3477–3503, February 2018.

4. Ashmi Chakraborty Das, Santanu Dwari, Amit Bage, "A matched E-H plane T-junction for X-band applications" ,Turkish Journal of Electrical Engineering & Computer Sciences, Vol. 26, pp. 3007-3023, April 2018. (SCI).
5. Sumanta Karmakar Khushi Banerjee, Lipika Mondal, Amit Kumar Rai, Pratim Prakash Dhara, "RFID Technology: A Review of Its Application In Attendance System in", International Journal on Future Revolution in Computer Science & Communication Engineering (IJFRCSCCE)" ISSN : 2454 - 4248 PEER REVIEWED May, 2018.
6. Sumanta Karmakar, Khushi Banerjee, Amit Kumar Rai and P. Dhara , "Effect of Interface Defect in ZnO/Si Heterojunction Solar Cell", International Journal on Future Revolution in Computer Science & Communication Engineering (IJFRCSCCE), ISSN : 2319-9725 PEER REVIEWED May, 2018.
7. Khushi Banerjee, Lipika Mondal, Sumanta Karmakar, Amit Kumar Rai and Sambit S Mondal, "First Order Filter Employing Operational Transresistance Amplifier Having Multi Input Single Output", International Journal of Innovative Research & Studies (IJIRS), May 2018.

Books/Chapters:

1. DP Karmakar, C Goswami, "Metamaterial Substrate and Superstrate Based Circular Microstrip Antenna", Advances in Computer, Communication and Control, Lecture Notes in Networks and Systems.DOI.ORG/10.1007/978-981-13-3122-0.
2. P Ghosh, K Roy, C Goswami, N Hasan, S Chakraborty, AK Chandra, "Study of Inset Fed Rectangular Patch Antenna Using Partial Ground Plane", Advances in Computer, Communication and Control, Lecture Notes in Networks and Systems.DOI.ORG/10.1007/978-981-13-3122-0.
3. Mondal, S. Rakshit, Md ArefBillaha, B. Roy and R. Sarkar "Low-Cost Wireless Data Transmission System for Industrial Applications", chap. 51 in Advances in computer, communication & control, "Lecture Notes in Networks and Systems", Springer, vol. 41, pp. 509-523, 2018. (ISBN 978-981-13-3121-3). DOI: https://doi.org/10.1007/978-981-13-3122-0_51.
4. Rupam Das, Biplab Bhowmick, Prajit Paul, Sumanta Karmakar, Khushi Banerjee, "Current Differencing Trans-conductance Amplifier (CDTA) Based Current-Mode Quadrature Oscillator", Int'l Conference on Emerging Trends on Engineering & Science, Advances in Computer, Communication & Control Proceedings LNNS, Springer, pp 35-47, 2018.
5. Sumanta Karmakar, "Vortex Flow Wind Turbine: An Experimental Study", Advances in Computer, Communication and Control, Lecture Notes in Networks and Systems.DOI.ORG/10.1007/978-981-13-3122-0.

PhD Awarded:

1. Dr. Aref Billaha, faculty members of ECE was awarded Ph.D degree from IIT,ISM , Dhanbad in the month of February, 2018.

2. Dr. Chiranjib Goswami, faculty members of ECE was awarded Ph.D degree from JU , Kolkata in the month of June, 2018.

Faculty Development Program:

1. Dr. Chiranjib Goswami participated and completed successfully AICTE sponsored FDP on "Recent Development in Artificial Intelligence and Robotics" from 03-01-2018 to 13-01-2018 organized by Narula Institute of Technology, Kolkata.

2. Dr. Ashmi Chakraborty participated and completed successfully FDP on "MATLAB and its applications" from 08-01-2018 to 09-01-2018 organized by Asansol Engineering College, Asansol.

3. Mr. Bhaskar Roy participated and completed successfully FDP on "5G networks" from 22-01-2018 to 24-01-2018 at IIT, organized by IIT, Guwahati.

4. Mr. Soumen Sen participated and completed successfully FDP on "MATLAB and its applications" from 08-01-2018 to 09-01-2018 organized by Asansol engineering college, Asansol.

Please send ideas for improvement to.

email: newsletter.ece.aec@gmail.com

The Newsletter is published by the ECE department of Asansol Engineering College.

Editor: Mr. Bhaskar Roy

Student Editors: Mr. Vikash Kumar Jha, Ms. Shefali Agarwal

ELECTRO NEWS

Volume – 05, Issue - 1, 2018


Events:

1. An introductory learning session of coding was organized in the department on 10th October, 2018.



Events:


2. A PPT competition on Engineer's day was held on 13th September, 2018.



The Institution Of Engineers (India) Student's Chapter

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING


ASANSOL ENGINEERING COLLEGE



**POWERPOINT PRESENTATION
COMPETITION FOR AEC STUDENTS**

"DIGITAL TRANSFORMATION: A NEW INDUSTRIAL REVOLUTION"

- ❖ Each team max. 2 members
- ❖ 10 Minutes will be allotted for each team
- ❖ Prelims on 10th September
- ❖ Top two team will be felicitated in Burnpur Club on 15th September on the eve of "Engineers Day" celebration by IEI Local Centre



Research Publication by the faculty members and students of ECE department:

1. Ashmi Chakraborty Das, Santau Dwari, Sonika Priyadarshini Biswal, "Cavity model based analysis of field propagation in a six port Riblet-type directional coupler", IETE Journal of Research, 04th December 2018. (SCI).
2. Chiranjib Goswami, Rowdra Ghatak, and D R Poddar, "Multi-Band Bisected Hilbert Monopole Antenna Loaded with Multiple Sub-Wavelength Split Ring Resonators," IET Microwaves, Antennas & Propagation, Vol. 12, Issue 10, pp. 1719-1727, August 2018. (SCI) DOI: <https://doi.org/10.1049/iet-map.2017.1215>.
3. Sumanta Karmakar, Rupam Das, Debleena Mondal in "Voltage Mode First Order All Pass Filter using DX-MOCCII" in International Journal of Latest Engineering and Management Research (IJLEMR), vol. 3 Issue 11, November 2018. (ISSN No : 2455 4847).

Books/Chapters:

1. Shiv Charan Puri and Sushrut Das, "A CPW Fed Trapezoidal Fractal Patch Antenna for UWB Applications, IEEE International Symposium on Antennas and Propagation & USNC/URSI National Radio Science Meeting, Boston, MA, USA. July 2018.
2. Sumanta Karmakar, Rupam Das, Amit Kumar Rai and Pratik Dey "CPW Wideband Microstrip Antenna" Advances in Computer, Communication and Control, Lecture Notes in Networks and Systems. DOI.ORG/10.1007/978-981-13-3122-0.

3. Rupam Das, Biplab Bhowmick, Prajit Paul, Sumanta Karmakar, Khushi Banerjee,"Current Differencing Transconductance Amplifier (CDTA) Based Current Mode Quadrature Oscillator ",Advances in Computer, Communication and Control, Lecture Notes in Networks and Systems.DOI.ORG/10.1007/978-981-13-3122-0.

4. Aman Agarwal, Heranmoy Maity, Arindam Biswas, Sambit S Mondal and Amit Kumar Rai, "Design of 4-Bit Reversible Johnson Counter With Optimized Quantum Cost, Delay and Number of Gate" Advances in Computer, Communication and Control, Lecture Notes in Networks and Systems.DOI.ORG/10.1007/978-981-13-3122-0.

Research Project: Project Grant received by Mr. Sumanta Karmakar on the project named "Design and fabrication of small model of bladeless wind turbine using Vortex Flow", 20th May, 2019, Amount of Grant: 35000/-.

Faculty Development Program:

1. Mr. Amit Kumar Rai participated and completed successfully FDP on "FDP for student induction (FDP-SI)" from 16-07-2018 to 18-07-2018 organized by all India Council of Technical Education (AICTE).

2. Dr. Chiranjib Goswami participated and completed successfully FDP on "FDP for student induction (FDP-SI)" from 16-07-2018 to 18-07-2018 organized by All India Council of Technical Education (AICTE).

3. Mr. Soumen Sen participated and completed successfully FDP on "One day FDP Embedded processors related to Internet of Things "on 5th October, 2018 organized by Asansol Engineering College.

4. Mr. Amit Kumar Rai participated and completed successfully FDP on "Application of soft computing on engineering" from 01-07-2018 to 06-07-2018 organized by Asansol Engineering College.

Please send ideas for improvement to.

email: newsletter.ece.aec@gmail.com

The Newsletter is published by the ECE department of Asansol Engineering College.

Editor: Mr. Bhaskar Roy

Student Editors: Mr. Vikash Kumar Jha, Ms. Shefali Agarwal

ELECTRO NEWS

Volume – 06, Issue - 2, 2019

Events:

1. Project representation by SIC students and coordinators at exhibition. ECE department won a prestigious award for empowering innovative projects. Bengal Science and Technology Meet at Burnpur Club, 21st January 2019.
2. Electronics Innovation, EI 6.0, National Level Innovative Model Making Competition and Technical Symposium 1st and 2nd March 2019.
3. Bengal Science and Technology Meet at Burnpur Club Project representation by SIC students and coordinators at exhibition. ECE department won a prestigious award for empowering innovative projects. 21st January 2019.

The Event

Electronics innovation is an initiative Taken by the ECE department to encourage young budding engineers to explore the arena of electronics and inculcate the ideas of thinking out of the box.

With its 6th season the event is being organized with greater zeal and vigor. Again this time we are going beyond bounds to have every intellectual minds under one roof.

Communication desk:
Samrat Ghosh (Convener)
9614094596
Sayandeep Lahiri (Co-Convener)
8637001395

ORGANIZING COMMITTEE:

Mr. Shiv Charan Puri
(Coordinator, IEI Students' Chapter, Dept. of ECE)

Samrat Ghosh
(Convener, IEI Students' Chapter, Dept. of ECE)

Sayandeep Lahiri
(Co-Convener, IEI Students' Chapter, Dept. of ECE)

ELECTRONICS INNOVATION 6.0

POWERED BY STUDENTS' INNOVATION CENTRE (SIC), ECE DEPARTMENT

1ST & 2ND MARCH

Organized By-
IEI Students' Chapter
Department of ECE
Asansol Engineering College



4. ECEian of the Year Contest for ECEian topper of the Week was held o 12th June 2019 under IEI student's chapter .

5. Annual General Meeting IEI student's chapter of ECE for the election of new committee was held on 12th June 2019.

Student Achievements:

1. Antara Sinha (Roll-10800315019) qualified in GATE/PGET.
2. Indronil Sikdar (Roll- 10800315046) qualified in GMAT.
3. Abhishek Singh (Roll- 10800315006) qualified in PGET
4. Aryan Kumar(10800315028) and Krishna Raman Singh(Roll-10800315049) went for MTECH studies in NIT, Patna.
5. Md. Qamar Tabish(10800315056) went for MTECH studies in NIT, Calicut.

Research Publication by the faculty members and students of ECE department:

1. Kousik Roy, Chiranjib Goswami, Rashmi Priya ,Naimul Hasan, Saswta Chakraborty, “A novel RF to DC converter for Wireless sensor Network”, International Conference on Electrical, Electronics, Computer Science & Civil Engineering (ICEECC 2019), Pailan College of Management and Technology, Kolkata, 26-27, April, 2019.
2. Pratik Ghosh, Kousik Roy, Chiranjib Goswami, Rashmi Priya ,Naimul Hasan, “ A novel inset fed rectangular patch antenna using DGS’, 3rd International Conference On Computer, Electrical & Communication Engineering ICCECE 2019, Techno India University, Kolkata,18th -19th January, 2019.
3. Kousik Roy, Chiranjib Goswami, Naimul Hasan, Rashmi Priya, “Implementation of low power RF to DC converter for wireless sensor network”, 3rd International Conference On Computer, Electrical & Communication Engineering ICCECE 2019, Techno India University, Kolkata,18th -19th January, 2019.
4. Karmakar D.P., Goswami C. (2019) Metamaterial Substrate and Superstrate Based Circular Microstrip Antenna. In: Biswas U., Banerjee A., Pal S., Biswas A., Sarkar D., Haldar S. (eds) Advances in Computer, Communication and Control. Lecture Notes in Networks and Systems, vol 41. Springer, Singapore. https://doi.org/10.1007/978-981-13-3122-0_6.
5. Ghosh P., Roy K., Goswami C., Hasan N., Chakraborty S., Chandra A.K. (2019) Study of Inset Fed Rectangular Patch Antenna Using Partial Ground Plane. In: Biswas U., Banerjee A., Pal S., Biswas A., Sarkar D., Haldar S. (eds) Advances in Computer, Communication and Control. Lecture Notes in Networks and Systems, vol 41. Springer, Singapore. https://doi.org/10.1007/978-981-13-3122-0_42.
6. Niratyay Biswas, Moumita Mukherjee, and Sayan Chatterjee, Published Online: 26 February 2019, “Determination of junction depth in ion implanted millimeter wave (MMW)-transit time devices by a modified three moment approach” Cite as: AIP Conference Proceedings 2072, 020009 (2019).
7. Bikas Mondal, A. Chaudhuri, ArefBillaha, B. Roy and P. Datta, 2019 “Novel Approach of IC-Based User Defined Temperature Control System”, Int. J. of Computer Sciences and Engineering, vol. 7 (Special Issue. 18), pp. 165-170. (E-ISSN: 2347-2693).

8. Aditi Shriya, A. Billaha, B. Roy, B. Mondal and K. Roy, 2019 “Design Methodology of a Sensor Based Robotic Wheelchair for Physically Disabled Community”, Int. J. of Computer Sciences and Engineering, vol. 7 (Special Issue. 18), pp. 151-156. (E-ISSN: 2347-2693).

9. Sumanta Karmakar, Khushi Banerjee, Lipika Mandal, Amit K Rai, Sambit S Mondal, MousumiDhar ,Prithiraj Nandan “An Experimental study on PC to PC Data Transfer” International Journal of Recent Engineering Research and Development (IJRERD) ISSN: 2455-8761 www.ijrerd.com,| Volume 04 – Issue 05, May 2019 ,PP. 65-71.

10. Ashmi Chakraborty Das, SantauDwari, Sonika Priyadarshini Biswal. Applicability of cavity modeling technique to analyze complex waveguide structures involving cavity cross couplings; Wireless Personal communication, May 2019 (SCI).

11. S.C.Puri, S. Das and M.G. Tiary “An UWB Trapezoidal Ring Fractal Monopole Antenna with Dual-Notch Characteristics”, International Journal of RF and Microwave Computer-Aided Engineering, vol.29, no.8, pp. 1–10, April 2019.

Faculty Development Program:

Dr.Md. Aref Billaha participated in a faculty development program on “Agile and Jile” organized by Tata Consultancy Services in the month of April and May 2019.

Please send ideas for improvement to.

email: newsletter.ece.aec@gmail.com

The Newsletter is published by the ECE department of Asansol Engineering College.

Editor: Mr. Rupam Das

Student Editors: Mr. Vikash Kumar Jha, Ms. Shefali Aggarwal

ELECTRO NEWS

Volume – 07, Issue - 1, 2019

Event:

SIC coordinators participated in CII conference at the Oberoi Grand, Kolkata earning an opportunity to listen to world leaders and Business Magnates, Aug 2019.



Faculty members Research Achievements:

Dr. Ashmi Chakraborty AP, ECE achieved her PhD from IIT(ISM) Dhanbad on 9th Dec 2019.

Research Publication by the faculty members and students of ECE department:

1. Chiranjib Goswami, et al, "Complementary Split Rings Resonator Based Circular Microstrip Antenna for Wireless Applications" IEEE IEMANTENNA 2019, October, Vancouver, BC, Canada.
2. Soumen Sen and Paromita Banerjee Sen ,2019,"SCADA Integration into Smart Grid for Power Efficiency in Indian Economy", International Conference On Impact of Changing Energy Mix in the Power

Sector(ICIEMPS2019) Organized by The Institution of Engineers (India) , held at Kolkata,West Bengal, India, 23rd -24th November.

3. Amit Kumar Rai, Nirupama Mandal, Akanksha Singh and K.K.Singh, "Landsat 8 OLI satellite image classification using Convolutional Neural Network", International Conference on Computer Intelligence & Data Science (ICCDs-2019), 06th-07th September, 2019.
4. "Random walk segmentation algorithm for MRI of brain", Journal of Advanced Research in Dynamical and Control Systems",2019.
5. Md ArefBillaha, S. Rakshit, B. Roy, B. Mondal, S. K. Choudhary and K. A. Yadav, "CdS/ZnSe-Based Multicolor Quantum Well Infrared Photodetector for Infrared Application", chap. 50 in Advances in computer, communication & control, "Lecture Notes in Networks and Systems", Springer, vol. 41, pp. 501-507, 2019. (ISBN 978-981-13-3121-3).
6. B. Mondal, S. Rakshit, Md ArefBillaha, B. Roy and R. Sarkar, "Low-Cost Wireless Data Transmission System for Industrial Applications", chap. 51 in Advances in computer, communication & control, "Lecture Notes in Networks and Systems", Springer, vol. 41, pp. 509-523, 2019.
7. Banerjee, K., Singh, D., & Paul, S. K.. Single VDTA based resistorless quadrature oscillator, Analog Integrated Circuits and Signal Processing, 1-6.2019
8. Sumanta Karmakar, Rupam Das, Sourik P. Kabi, Spondita Ghosh, Prithiraj Nandan "A comparative study on different mode of data transfer" in the journal of Electronics and optical Communication Engineering" of Volume 4 Issue 1, MANTECH PUBLICATIONS 2019.
9. S.C.Puri, S. Das and M.G. Tiary "An UWB Monopole Antenna with Dual Band Notched Characteristics", Microwave and Optical Technology Letters, vol. 62, no. 3, pp. 1–8, October 2019.

Faculty Development Program and Short term course:

1. Dr.Md. Aref Billaha participated in a short term course " Electromagnetic Metamaterials- Microwave Infrared Optical Applications organized by IIT Kanpur in August 2019.
2. Chiranjib Goswami participated & completed successfully AICTE Training And Learning (ATAL) Academy FDP on "Robotics" from 09-12-2019 to 13-12-2019 at NIT Durgapur.

Please send ideas for improvement to.

email: newsletter.ece.aec@gmail.com

The Newsletter is published by the ECE department of Asansol Engineering College.

Editor: Mr. Rupam Das

Student Editors: Mr. Sourik Prakash Kabi, Ms. Spondita Ghosh

ELECTRO NEWS

Volume – 08, Issue - 2, 2020



1. An intra college event “Bug Fixer of the Week” by IEI student chapter was held on 31st January 2020.

THE EVENT

Electronics Innovation is an initiative undertaken by the IEI Students' Chapter of ECE department, Asansol Engineering College to encourage young budding innovators to explore the wide arena of technology, to think out of the box and bring their ideas to life!

With its 7th edition, the event is being organized with greater zeal and vigor as we go beyond borders to have all intellectual minds under one roof.

SPECIAL ATTRACTIONS THIS YEAR

- NATIONWIDE PARTICIPATION
- CASH PRIZES AND GIFT HAMPERS
- EMINENT GUEST SPEAKERS & JUDGES
- MEDIA COVERAGE
- OPEN EXHIBITION WITH 500+ AUDIENCE

COMMUNICATION DESK

+91 7430905575 (SHEFALI)
+91 8116067157 (SUMAN)

ORGANIZING COMMITTEE

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DR. T. L. GHOSH (DIRECTOR, AEC)

PATRON:
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SIBRATIN CHOWDHURY (ADVISOR, AEC)
DR. C. S. PANDA (REGISTRAR, AEC)

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MR. SAMBIT S. MONDAL (HOD, ECE)

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DR. SANDIP HALDAR (HOD, BASIC SC. & HS)
MR. ROBIN K. AGARWAL (HOD, MGMT)

FACULTY CONVENER:
MR. SHIV CHARAN PURI (CO-ORDINATOR, IEI STUDENTS' CHAPTER & IN-CHARGE, SIC, ECE)

STUDENTS COMMITTEE:
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SUMAN BHATTACHARYA (CO-CONVENER, E1 7.0)
SUCHI SUBHRA BHOWAS (SIC STUDENTS' CONVENER)

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SOURIK PRAKASH KABI
SOURAV KUNDU
SOMNATH BANERJEE
SOMNATH CHATTERJEE

ELECTRONICS INNOVATION 7.0

THE ANNUAL NATIONAL LEVEL MODEL MAKING COMPETITION CUM EXHIBITION

IN COLLABORATION WITH

IEEE PHOTONICS SOCIETY

POWERED BY STUDENTS' INNOVATION CENTRE (SIC), ECE DEPARTMENT

ORGANIZED BY IEI STUDENTS' CHAPTER, DEPARTMENT OF ECE, ASANSOL ENGINEERING COLLEGE

MARCH 13 & 14, 2020

VENUE: ASANSOL ENGINEERING COLLEGE

2. An inter college model competition “Electronic Innovation 7.0” by IEI STUDENT’S CHAPTER and SIC was held on 13-14th March 2020.



3. An intra college event “Bug Fixer of the Week” by IEI student chapter and SIC was held on 17th April 2020.



4. An intra college event “IT TRENDS AND SYSTEM DESIGN” by IEI student chapter and SIC was held on 19th April 2020.



5. An intra college event "IEI ECEian of the week" by IEI student chapter and SIC was held on 23rd April 2020.

Asansol Engineering College

Brought to you by:
Students' Innovation Centre

In association with:
Institution of Engineers (India)
Students' Chapter of department of
Electronics & Communication Engineering

ANUJA BHUWALKA
System Engineer, TCS

Free Webinar on "Machine Learning and AI"

26th April, 2020
7:30 P.M.

COME, LET'S TALK TECH!

As the world fights this monster
we call COVID-19, let's not stop
our learning process and utilize
this season for expanding our knowledge.

ECE welcomes you in this learning program!

For enquiries, contact:
Shefali Agarwal
8250015408

Scan the QR code to register

6. An intra college event "MACHINE LEARNING" by IEI student chapter and SIC was held on 26th April 2020.

Brought to you by:
**Students' Innovation Centre, and
 Institution of Engineers (India) Students' Chapter
 of the Dept. of Electronics and Communication Engineering**




Asansol Engineering College



“Projects to Products in IOT”

**Date: 2nd May, 2020
 Time: 7:30 p.m.**

**Sushil Singh
 Senior Software Engineer
 ColorTokens, Inc.**



Scan the QR code to register

For any queries, contact:
 Shefali Agarwal
 8250015408

7. An intra college event “PROJECT TO PRODUCT IN IOT (BY MR SUSHILSINGH, SENIOR SOFTWARE ENGINEER” by IEI student chapter and SIC was held on 2nd May 2020.



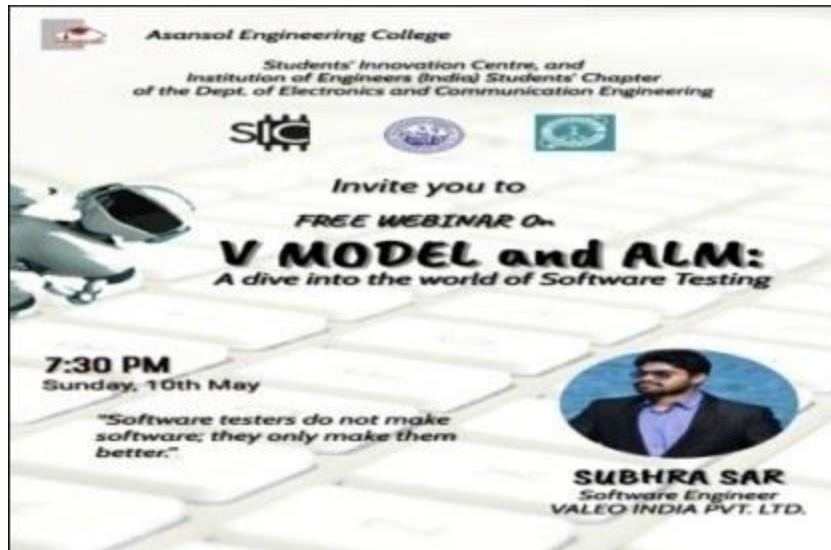
IEI ECEian Of The Week 6.16

CONGRATULATIONS!!!

**SREEPARNA RAY
 1ST YEAR
 ROLL NO: 54**

WE ARE PROUD OF YOU...

8. An intra college event “IEI ECEian of the week” by IEI student chapter was held on 7th May 2020.



9. An intra college event "FREE Webinar on "V MODEL AND ALARM" by IEI student chapter and SIC was held on 8th May 2020.

Student Achievements:

1. Anuska Trivedi, Student of ECE-1st year got 3rd position in E -Quiz which was organized by ED Cell,AEC on 24th April,2020.

2. Divyanshu Kumar, Student of ECE-1st year got 3rd position in IDEAOLGY competition which was organized by ED Cell, AEC on 15th June,2020.

3. Anik Chatterjee, Student of ECE-1st year got 1st position in online quiz competition "WEEK OF AEC HARDWARE CLUB (SPECIAL EDITION)" which was organized by AEC Hardware Club on 9th May,2020.

4. Subha Sundar Chakraborty, Student of ECE-1st year got 1st position in INNOVATIVE IDEA SUBMISSION 2020 competition which was organized by AEC Hardware Club on 3rd May,2020 for his project "LPG ACCIDENT ALERT, PREVENTION & AUTOMATIC GAS BOOKING ALERT SYSTEM".

5. Priyanshu Vikram, Student of ECE-1st year got 2nd position in INNOVATIVE IDEA SUBMISSION 2020 competition which was organized by AEC Hardware Club on 3rd May,2020 for his project "AUTOMATIC RAILWAY GATE CONTROLLER."

6. Rishindra Mukherjee, Student of ECE-3rd year got 3rd position in INNOVATIVE IDEA SUBMISSION 2020 competition which was organized by AEC Hardware Club on 3rd May,2020 for his project "INFRARED THERMOMETER".

7. Sanjukta Mitra, Student of ECE-3rd year got 1st position in INNOVATIVE POSTER MAKING COMPETITION 2020 which was organized by AEC Hardware Club on 15th May,2020.

8. Ipsita Mitra, Student of ECE-1st year got 2nd position in INNOVATIVE POSTER MAKING COMPETITION 2020 which was organized by AEC Hardware Club on 15th May,2020.

9. Mona Bhagat, Student of ECE-2nd year got 3rd position in INNOVATIVE POSTER MAKING COMPETITION 2020 which was organized by AEC Hardware Club on 15th May,2020.

10. Bishakha Pandey, Student of ECE-3rd year got 1st position in Online Technical Writing Competition "LOOK AROUND YOU" which was organized by AEC Hardware Club on 5th June,2020.

11. Subha Sundar Chakraborty, Student of ECE-1st year got 3rd position in Online Technical Writing Competition "LOOK AROUND YOU" which was organized by AEC Hardware Club on 5th June,2020.

12. Suprime Giri, Student of ECE-2nd year got 1st position in Electronic Circuit Design Competition 2020 which was organized by AEC Hardware Club on 15th June,2020.

13. Shubham, Student of ECE-2nd year got 2nd position in Electronic Circuit Design Competition 2020 which was organized by AEC Hardware Club on 15th June,2020.

Research Publication by the faculty members and students of ECE department:

1. Bhaskar Roy "A Comparative Study on NOMA and OMA in 5G Wireless Technology", in Brainwave: A Multidisciplinary Journal, Vol. 1, No. 1, April 2020, pp. 8-10, Brainware University (ISSN: 2582-659X).

2. Amit Kumar Rai, Nirupama Mandal, Akanksha Singh and K.K.Singh, "Landsat 8 OLI satellite image classification using Convolutional Neural Network", Procedia of Computer Science, Elsevier vol-16, pg. no-987-993, April 2020. doi.org/10.1016/j.procs.2020.03.398.

3. Shyam Sundar Jash, Chiranjib Goswami, Rowdra Ghatak, "A low profile broadband circularly polarized planar antenna with an embedded slot realized on a reactive impedance surface", International Journal of Electronics and Communications (AEÜ), (Elsevier) Vol.108, p.p.62-72, August 2019.

4. Kousik Roy, Chiranjib Goswami, Rashmi Priya, Naimul Hasan, Saswta Chakraborty, "A novel RF to DC converter for Wireless sensor Network", International Journal of Computer Sciences and Engineering, Vol. 7(18), pp.171-173, May 2019.

5. Sumanta Karmakar, Amit Kumar Rai, Sambit S Mondal and Jyosmita Mukherjee, " Effect of interface Defect in ZnO/Si HeterojunctionSolar Cell", Journal of Power Electronics and Drives, vol-05, issue-02, Nov-2020.

6. Sumanta Karmakar, " CPW Wideband Octagonal Microstrip Antenna", Trends in Microwave Engineering and Technology,on 18.06.2020 with ISSN No 2596-2975.

7. Bhaskar Roy, Bikas Mondal,C.Goswami,Aref Billaha , " Non-Orthogonal Multiple Access used in 5G Wireless Technology", in All India Seminar on Advances in Mobile Communication and Challenges in Mobile Computing organized by The Institution of Engineers (India) Durgapur Local Centre on 4-5 March,2020.

8. Soumen Sen, Ratul Mukherjee, Tirthankar Roychowdhury, Sandip Chatterjee, Ronit Roy,Sayanti Sarkar, Riya Das,2020,"IOT based Mini Navigator for underground coal mines",International Conferences

on ICFTTAE-2020,organised by Narula Institute of Technology,west bengal,31 st January-1 st February,2020.

9. Chandan kr.Ghosh, Amrita Sarkar, Swati Bhattacharjee, Sarada Tewary,Rimi chatterjee, Keya Pal,Mrinmoy Chakraborty,“Slotted Microstrip Antenna for Miniaturization” IEEE Conference NCETSTEA 2020, Dr. B.C. Roy Engineering College Durgapur.

10. Chiranjib Goswami, et al, “Moore Curve Fractal Shaped SRR as Miniaturized Stop Band Elements” IEEE International Conference on Electronics, Material Engineering and Nano Technology (IEMENTech 2020) 2nd -4th Oct. 2020. DOI: 10.1109/IEMENTech51367.2020.9270085.

11. Shyam Sundar Jash, Chiranjib Goswami, Rowdra Ghatak, “Design of Dual-Broadband High-Gain Circularly Polarized Patch Antenna Using Novel Metasurface” in IEEE International Symposium on Antennas and Propagation and North American Radio Science Meeting in Montréal, Québec, Canada on 5-10 July 2020.

12. Chiranjib Goswami, et al, “Complementary Split Rings Resonator Based Circular Microstrip Antenna for Wireless Applications” IEEE IEMANTENNA 2019, October, Vancouver, BC, Canada. DOI: 10.1109/IEMANTENNA.2019.8928850.

13. Banerjee Khushi, Prasit Kumar Bnadopadhyaya, Bishal Sarkar, and Arindam Biswas. "Multi Input Single Output using Operational Transresistance Amplifier as First Order Filter." In 2020 IEEE VLSI DEVICE CIRCUIT AND SYSTEM (VLSI DCS), pp. 271-274. IEEE, 2020.

Faculty Achievements:

1. Md Aref Billaha received best paper award for the paper titled “Inter-subband Photoresponse Analysis of CdS/ZnSe QWIP” in the 6th Int’l Conf. on Opto-Electronics and Applied Optics (OPTRONIX-2020), Kolkata, 8-10th June, 2020.

Faculty Development Program:

1. Dr. Md Aref Billaha participated in one week online short-term course on “Nanotechnology for Electronic and Photonic Devices-NanoDev2020” organized by Punjab Engineering College (Deemed to be University), Chandigarh from 15th - 19th June, 2020.

2. Dr. Md Aref Billaha participated in one-week online FDP on “Next-Generation Semiconductor Devices for high-end applications” organized by Electronics and ICT Academy, NIT Patna from 22-27th June, 2020.

3. Swati Bhattacharjee participated in 3 days FDP on "RF Design/VNA & its Applications" from 16th June to 18th June 2020 organized by Entuple & Anritsu.

4. Swati Bhattacharjee participated in one day FDP on Geometry modeling in HFSS on 4th May 2020 organized by IEEE Bangalore Section,MTT-S Bangalore joint Chapter,Entuple Technolog.

5. Amit Kumar Rai participated in one-week FDP on "Recent Trends in Electronics & Communication Engineering" from 26th April - 2nd May 2020, Organized by Department of Electronics & Communication Engineering, JB Institute of Engineering & Technology.
6. Niratyay Biswas participated in one and half week NPTEL-AICTE Faculty Development Programme on "Antennas" with consolidate score 90% from Jan-April 2020.
7. Niratyay Biswas participated in one week NPTEL-AICTE Faculty Development Programme on "Introduction to Research" with consolidate score 79% from Jan-April 2020.
8. Dr. Arunava De has done the MOOCS courses on- i.. "Getting Started with Python" by University of Michigan-Coursera ii. " Python Data Structures" by University of Michigan-Coursera iii. " AI For Everyone" –deeplearning.ai-Coursera iv. " The Bits and Bytes of Computer Networking"- Google-Coursera.
9. Dr. Chiranjeeb Goswami participated in one-week Faculty Development Programme on Next-Generation Semiconductor Devices for high-end applications organised by Electronics & ICT Academies, NIT Patna from 22nd June, 2020 to 28th June, 2020.
10. Dr. Chiranjeeb Goswami participated in one Week International Workshop on Metamaterial & its Applications organised by IEEE Delhi Section Antenna & Propagation Society (APS) Chapter – Jaipur in association with IEEE Rajasthan Subsection, Malaviya National Institute of Technology Jaipur and Govt Women Engineering College, Ajmer from July 27-2020 to July 31, 2020.
11. Khushi Banerjee has done the NPTEL course on "Introduction to Research"(Feb-Aril2020).
12. Khushi Banerjee participated in 1week FDP on Recent Trends in Electronics & Communication Engineering By JB Institute of Engineering And Technology on 26th April-2nd May 2020.
13. Sumanta Karmakar attended a Online Course on "Teaching Learning Process" on 14th April, 2020 at Academia Institutions, New Delhi.
14. Sumanta Karmakar attended a faculty development program on "Digital Signal Processing System Design" from 28th April to 3rd May, 2020 at Canva Solution Ltd.
15. Sumanta Karmakar attended a faculty development program on "The Story of Electricity" from 14th May to 31st May, 2020 at Gola Polytechnic with NIT Patna.
16. Sumanta Karmakar attended a faculty development program on "Nanotechnology" from 15th to 19th June, 2020 at PEC, Chandigarh.
17. Sumanta Karmakar attended a faculty development program on "Recent Trends in VLSI Technology" from 25th to 29th June, 2020 from NITTTR, Chandigarh.
18. Sumanta Karmakar attended a workshop on "Power Train and Electromagnetic Transients" from 18th May - 19th May, at New Horizon Institute of Engineering, Bangalore.

Please send ideas for improvement to.

email: newsletter.ece.aec@gmail.com

The Newsletter is published by the ECE department of Asansol Engineering College.

Editor: Dr. Md. Aref Billaha

Student Editors: Mr. Sourik Prakash Kabi, Ms. Spondita Ghosh

ELECTRO NEWS

Volume –09, Issue - 1, 2020

Research Publication by the faculty members and students of ECE department:

1. Sumanta Karmakar et al., “Co Planar Waveguide in Wideband Microstrip Antenna” in Journal of Advancement in Communication System of HBRP PUBLICATION on 31.12.2020 with ISSN No 2582-2993.
2. Sumanta Karmakar et al., “First order filter employing operational transresistance amplifier having multi input single output” in Journal of Power Electronics and Drives of MANTECH PUBLICATION on 14.10.2020 with ISSN No 2768-3171.
3. Sumanta Karmakar et al., “Design of Small model of bladeless wind turbine using vortex flow with the concept of storage of charge” in Journal of Electrical Power System Engineering & Technology of MANTECH PUBLICATION on 21.11.2020 with ISSN No 2823-3243.
4. Md Aref Billaha, B. Bhowmick and S. K. Choudhary, “Investigating Inter-subband Photocurrent in CdS/ZnSe Quantum Well Photodetector for Infrared Applications” Microsystem Technologies, Springer 2020. (SCI impact factor-1.737*, 2019) <https://doi.org/10.1007/s00542-020-05119-7>.
5. Md. Aref Billaha et al., “Asymmetric AlGaAs/GaAs/InGaAs Based Quantum Well Long Wavelength Infrared Photodetector” proc. of the 4th Int’l Conf. on Electronics, Materials Engineering & Nano-Technology (IEMENTech 2020), Kolkata, 2-4th October, 2020. (IEEE explored) <https://doi.org/10.1109/IEMENTech51367.2020.9270056>.
6. K.Roy, N.Hasan, S.K.Parui, P.Dey and Bhaskar Roy, “Implementation on Design of a Novel Frequency Selective Surface”, in IEEE International IOT,Electronics and Mechatronics Conference (IEMTRONICS2020), Vancouver, Canada, 9-12 September 2020. DOI: 10.1109/IEMTRONICS51293.2020.9216442) (Scopus-Indexed).
7. Kousik Roy, Debika Chaudhuri, Atanu Nag, Bhaskar Roy, Soham Kanti Bishnu, Sutapa Ray, Aparna Biswas and Sanjay Chatterjee, “Implementation of a Dual Band Antenna for Satellite Communication”, in IEEE International Electronics,Materials Engineering and Nano-Technology Conference (IEMENTech 2020), IEM, Kolkata, 2-4th October 2020. (DOI: 10.1109/IEMENTech51367.2020.9270050).
8. Chiranjib Goswami, Bhaskar Roy, Sutapa Ray, Soham Kanti Bishnu , Aparna Biswas and Sanjay Chatterjee, “Moore Curve Fractal Shaped SRR as Miniaturized Stop Band Elements”, in IEEE International Electronics,Materials Engineering and Nano-Technology Conference (IEMENTech 2020), IEM, Kolkata, 2-4th October 2020. (DOI: 10.1109/IEMENTech51367.2020.9270085).
9. Agniva Chatterjee , Sanjay Chatterjee , ,Suprabhat Chatterjee , SutapaRay , Pritom Adhikary , Bhaskar Roy , “Analysis of Sea Water Liquid Antenna”, in IEEE International IOT,Electronics and Mechatronics Conference (IEMTRONICS2020), Vancouver, Canada, 9-12 September 2020.(DOI: 10.1109/IEMENTech51367.2020.9270079).

10. Swati Bhattacharjee, Chandan Kumar Ghosh "Reduction of Mutual Coupling between two adjacent Microstrip antennas using I-shaped Resonators" IEEE International Conference on Advent Trends in Multidisciplinary Research and Innovation (ICATMRI-2020),30th December 2020, Pankaj Laddhad Institute Of Technology and Management Studies, Buldana, Maharashtra, India.

Funded Project:

Mobile APPS developed for Ranigunj Chamber of Commerce.by ECE students(Deep Chatterjee, Abhishek Kumar Verma, Ankit Sadhu, student of ECE-Final Year). Research Grant Amount is Rs 20,000/-.

Faculty Achievements:

1. Three students of Dr. Arunava De has been awarded Ph.D degree.
2. Mr. Soumen Sen achieved certificate of Appreciation from TI and AICTE for fostering the ecosystem bridging Government, Academia and Industry in December, 2020.
3. Mr. Soumen Sen mentoring corona related project "NON-CONTACT SWITCHING SYSTEM". This project work published by different press & media and finally technology transferred to Victor Engineering Company (Deal amount Rs 1 Lakh) in August,2020.
4. Under Mentorship of Mr. Soumen Sen, Two Project "Smart Lock System" and "Automatic Hand Sanitizer Dispenser" won National Level project Competition "CII Innovation 2020 online event" on 04/12/2020.
5. Dr. Aref Billaha Presented paper in the 4th Int'l Conf. on Electronics, Materials Engineering & Nano-Technology (IEMENTech 2020) organized by Institute of Engineering & Management, Kolkata, 2-4th October 2020.

Faculty Development Program:

1. Dr. Md Aref Billaha participated in one-week online AICTE recognized FDP on "Nanoelectronics Devices and Circuits Design" organized by Department of ECE, NITTTR Chandigarh from 6-10th July, 2020.
2. Mr. Soumen Sen participated in one week online FDP on "Internet of Things(IoT)" organized by AICTE Training and Learning(ATAL) Academy and Sri Sairam Engineering College from 30th November-4th December, 2020.
3. Mr. Soumen Sen participated in one-week online FDP on "Robotics" organized by AICTE Training and Learning (ATAL) Academy and Narayana Engineering College from 14th-18th December, 2020.
4. Ms.Swati Bhattacharjee participated in one week STTP on Development of laboratory instruction and manual (05.10.2020 to 09.10.2020) organized by NITTTR.
5. Ms.Swati Bhattacharjee participated in STTP on Creative Program Solving, Innovation and Meaningful R&D from 09.11.2020 to 13.11.2020 organized by NITTTR.

6. Ms.Swati Bhattacharjee participated in STTP on NBA Accreditation Issues from 14.12.2020 to 18.12.2020 organized by NITTTR.
7. Ms.Swati Bhattacharjee participated in two week STTP on Network Infrastructure Management (21.12.2020-01.01.2021) organized by NITTTR.
8. Mr. Amit Kumar Rai participated in AICTE sponsored Faculty Development Programme on "Pattern Recognition: Theory & Its Application" from 20th July - 24th July conducted by NITTTR,Kolkata.
9. Mr. Amit Kumar Rai participated in AICTE sponsored Faculty Development Programme on "Electrical And Electronics Circuit Analysis Using Matlab" from 27th July - 31th July conducted by NITTTR, Kolkata.
10. Mr. Amit Kumar Rai participated in one week online FDP on "Blockchain" organized by AICTE Training and Learning(ATAL) Academy and Nation Institute of Engineering from 15th December - 19th December, 2020.
11. Mr. Amit Kumar Rai participated in one week online FDP on "Artificial Intelligence" organized by AICTE Training and Learning(ATAL) Academy and IIT Patna from 19th October - 23rd October, 2020.
12. Mr. Niratyay Biswas participated in one and half week NPTEL-AICTE Faculty Development Programme on "Microwave Theory & Techniques" with consolidate score 89% from Sept-Dec 2020.
13. Mr. Intekhab Hussain participated in AICTE sponsored one week STTP on Recent Trends in Internet of Things (IoT) and Embedded systems Based Monitoring and Control of Distributed Systems from 10.08.2020 -15.08.2020(Phase-I) organised by Electrical Engineering Department Of Narula Institute of Technology.
14. Mr. Intekhab Hussain participated in one week STTP under AICTE Quality Improvement Scheme (AQIS) on Recent Advances and Trends in Machine Learning: Theory and Application from December 7 to December 12, 2020 organized by Department of Electrical Engineering, Asansol Engineering College, West Bengal.
15. Mrs. Khushi Banerjee done the NPTEL Courses on- (i) Semiconductor Devices and circuits (Sep-Dec2020) (ii) Digital Circuits (Sep-Dec2020).
16. Sumanta Karmakar attended a faculty development program on "Introduction to Robotics" from 05th - 09th October, 2020 from NITTTR, Kolkata.
17. Sumanta Karmakar attended a faculty development program on "Power Electronics" from 19th - 23th October, 2020 from NITTTR, Kolkata.
18. Sumanta Karmakar attended a faculty development program on "Image Processing with MATLAB" from 12th - 16th October, 2020 from NITTTR, Kolkata.
19. Sumanta Karmakar attended a faculty development program on "NBA accreditation issues" from 14th - 18th December, 2020 from NITTTR, Kolkata.

20. Dr. Md Aref Billaha attended two week online AICTE sponsored FDP on “Technical Trends in IoT, Data Science & Artificial Intelligence (phase III)” organized by Department of Electronics and Communication Engineering, P.S.R Engineering College from 14-28th December, 2020.

21. Dr. Md Aref Billaha attended one week online AICTE sponsored STTP on “Internet of Things, Big Data Cloud-IDBC phase II” organized by Department of IT and Engineering, CMR Institute of Technology from 17-22th August, 2020.

Please send ideas for improvement to.

email: newsletter.ece.aec@gmail.com

The Newsletter is published by the ECE department of Asansol Engineering College.

Editor: Dr. Md. Aref Billaha

Student Editors: Mr. Soumyadeep Maji, Ms. Sonali Gorai

ELECTRO NEWS

Volume – 10, Issue - 2, 2021

Achievement Of Faculty/Staff Members:

1. **Patent Published: Title of Invention:** Wireless Sensor Based Artificial Intelligence System and Device for Fetal Health Monitoring During Pregnancy

Field of Invention: Biomedical Engineering

Patent Application No.: 202111019001

Published by: Indian Patent Journal (Govt. of India)

Publication Date: 04/06/2021

Name of the Faculty: Mr Bhaskar Roy

2. **Patent Published:** Title of Invention: A Glucose Level Monitoring System By Providing A Patch On Patient Body And Determining Compliance Using Artificial intelligence

Patent Application No.: 202141026293

Published by: Office of the Controller General of Patents, Designs & Trade marks Department of Industrial Policy & Promotion, Ministry of Commerce and Industry, (Govt. of India)

Name of the Faculty: Prof.(Dr.) Arunava De

1. Mr Bhaskar Roy, as resource person, delivered lecture on "PSPICE" in Haldia Institute of Technology, Haldia on 24/02/2021.

2. Mr. Soumen Sen, as resource person, delivered lecture on National Level 5 days online FDP on Entrepreneur Strategies for breakthrough success in your business and life on 24/06/2021, organised by Srinivasan College of Arts and Science, TamilNadu.

3. Mr. Soumen Sen achieved appreciation certificate for exceptional contribution as Mentor in Virtual 1st National Hackathon on Self Reliance based Intelligent India Hackathon-2021(SRIIH-2021) from CSI, Kolkata Chapter in the year 2021. This event was organised on 29th January,2021 to 31st January,2021.

4. Mr. Soumen Sen selected as Technical Evaluator in National Level Competition "IICDC 2019" for semi-final round on 18/05/2021, organised by TI, AICTE, DST, IIM(Bangalore).

5. Mr. Soumen Sen selected as Technical Evaluator in National Level Competition "Toycathon 2021" on 21/02/2021, organised by Ministry of Education, Govt of India.

6. Sumanta Karmakar have been selected as a reviewer in The Hertz Journal of Engineering.

7. Dr Ashmi Chakraborty was awarded as young Researcher Award 2020 by Institute of Scholars.
8. Mr. Prajit Paul Attended AICTE UHV FDP of one week duration from 07.06.2021-11.06.2021.
9. Mr. Prajit Paul attended STTP AICTE Sponsored of one week duration on " Digital Network", from 16.06.2021-21.06.2021.
10. Biplab Bhowmick attend AICTE UHV FDP on "Universal Human Values" of one week duration in June 07 2021.
11. Biplab Bhowmick attended ATAL FDP on "Augmented Reality & Virtual Reality" during June 07, 2021 to June 11, 2021.
12. Ashmi Chakraborty participated in One Week online STTP Sponsored by AICTE, New Delhi Under AICTE Quality Improvement Schemes (AQIS) in "Recent Advances and Trends in Machine Learning: Theory and Application (Phase-2), organized by Asansol Engineering College from 11th January-16th January, 2021.
13. Ashmi Chakraborty participated one week Faculty Development Programme on "Engineering Trends in Refrigeration & Air Conditioning" organised by College of Engineering, Pune, Maharashtra from 15-20th March, 2021.
14. Mrs. Khushi Banerjee has participated in one week online STTP under AICTE Quality Improvement Scheme (AQIS) on Recent Advances and Trends in Machine Learning: Theory and Application (Phase-3) from FEBRUARY 08-13, 2021 organised by Department of Electrical Engineering, Asansol Engineering College, West Bengal.
15. Khushi Banerjee from Asansol Engineering College has participated in a Virtual FDP on "Research, Innovation & Techno-Entrepreneurship (RITE-2021)" Organized by the Research & Development Cell and Students Innovation Club, Vemu Institute of Technology, P.Kothakota, Chittoor held from 14 to 18, June 2021 with Certificate ID: MBQXLM-CE000171.
16. Khushi Banerjee participated in five days online FDP on "New trends in Machine Learning", held in The ECE Department, Narula Institute of Technology, Agarpara from 22nd March to 26th March 2021
17. Prajit Paul attended online FDP on "New trends in Machine Learning", held in The ECE Department, Narula Institute of Technology, Agarpara from 22nd March to 26th March 2021
18. Prajit Paul attended AICTE ATAL FDP on "Block Chain", from 04.01.2021-08.01.2021
19. Prajit Paul attended online FDP on "SDN", held at NITTTR, Kolkata from 11.01.2021-15.01.2021
20. Prajit Paul attended online FDP on " Machine Learning", from 19.04.2021-23.04.2021
21. Sumanta Karmakar has participated in a Virtual FDP on "Research, Innovation & Techno-Entrepreneurship (RITE-2021)" Organized by the Research & Development Cell and Students Innovation

Club, Vemu Institute of Technology, P.Kothakota,Chittoor held from 14 to 18, June 2021 with Certificate ID: MBQXLM-CE000171.

22. Sumanta Karmakar has participated in one week online STTP under AICTE Quality Improvement Scheme (AQIS) on Recent Advances and Trends in Machine Learning: Theory and Application (Phase-3) from FEBRUARY 08-13, 2021 organised by Department of Electrical Engineering, Asansol Engineering College, West Bengal.

Event Organised:

Webinar On
“Fabrication of Electronic Devices”



Speaker:
Dr. Balwinder Raj
Associate Professor
NITTTR, Chandigarh



Date: 5th June, 2021
Time: 11 am to 12 pm

Organised by,
Department of Electronics and
Communication Engineering
Asansol Engineering College
Asansol
<https://aecwb.edu.in>

Register Now



URL : <https://forms.gle/mweyjnnEYmVMFN8q7>

A Technical webinar on “Fabrication of Electronic Devices” conducted by Department of Electronics and Communication Engineering of Asansol Engineering College, Asansol, on 5th June 2021 was a grand

success. Dr. Balwinder Raj (Associate Professor, NITTR, Chandigarh) graced the occasion as the resource person for this webinar. The programme was started in presence of Head of the department of Electronics & Communication Engineering, departmental faculties, students, participants from other colleges, organizing committee members, faculty & staff members and students of different departments. The aim of this webinar is to bring together the students, faculties and exchange their views and thoughts on the area of device fabrication". Our resource person Dr. Balwinder Raj enlightens us through his talk on the different fabrication processes and their aspects. We received an admirable response for the participation in the said program. Total number of participants including, guests, faculties and students present was above 300.



WEBINAR ON

DATA SCIENCE

**SPEAKER: DR. ASHISH GHOSH,
PROFESSOR & HEAD,
MACHINE INTELLIGENCE UNIT,
INDIAN STATISTICAL INSTITUTE (ISI),
KOLKATA (W.B.)**



**DATE: 15/05/2021
TIME: 3PM**

REGISTRATION LINK:

https://docs.google.com/forms/d/e/1FAIpQLSefEm-8NMXUpzZBIdBqn2BWZnIZPn-ZgOXX5UoJmk-X6zlgvQ/viewform?usp=sf_link

**FACULTY
COORDINATOR:
MR. SOUMEN SEN,
AP, ECE DEPT
(CONTACT NUMBER-
9378372492)**

*Organised by ECE Dept, Asansol Engineering
College*

A “WEBINAR ON DATA SCIENCE” Event Meet was held on 15-05-2021, from 3pm at online ZOOM platform of Asansol Engineering College. The purpose was to cater the flavor of this versatile field in a very unique and different way never been followed previously of whose initiative was taken by department of Electronics and communication Engineering, AEC to build a strong linkage between the students of different streams. The purpose of the Event Meet 2021 was to engage the students in such an experience in which they basically will get a pathway to use their skills and knowledge in framing their thoughts for the betterment of their career and its prospects. The event was a success. Around 250 students/faculty members participated from different Institutes. We are glad to announce the Speaker Prof. (Dr) Ashish Ghosh, HEAD, and Machine Intelligence Unit from Indian Statistical Institute.

Achievement of students:

1. Amanshree Prasad, Student of ECE-2nd year got 1st position in Electronics Circuit Design Competition 2021 on 1st May 2021, organised by AEC Hardware Club.
2. Jyotsna Tiwary selected for a Internship Program from Digi Grow Hub- in the month of June, 2021.
3. Kundan Sharma successfully completed TCS IoN career edge competition.
4. Subha Sundar Chakraborty, ECE 2nd Year selected, for Idea-O-Meter fund regarding project title " LPG Gas Accident Alert, Prevention and Automatic Gas Booking Alert System". Fund Amount Rs 9250/- .

Student Chapter/Clubs/Society activity:

1. Aptitude based competition "IEI ECEian of the week 7.10" on 5/6/2021.
2. Coding based competition "Bit-a-Byte 1.0" on 6/6/2021.
3. 3- day workshop on "Embedded System based on Arduino Microcontroller" Phase 1 19/06/2021 and Phase 2 26/06/2021 [IE(I) Students' Chapter, ECE Department and Students Innovation Centre, ECE]

R&D/Consultancy/ MOU etc.

Publications:

1. Abhinav Chatterjee, Arnab Maji, Bhaskar Roy, Bikas Mondal and Aref Billaha, “Advanced Solar Street Light System”, in the J. of Communication Engineering and Its Innovations, vol. 6, no. 3, pp. 23-25, 4th Jan 2021 (<https://doi.org/10.46610/JOCEI.2020.v06i03.004>)
2. Bhaskar Roy, Ankita Das, Bikas Mondal, Aref Billaha, Aditi Choubey “ Location Tracking and SMS Based Self Defence System for Women Safety”, in the J. of Embedded Systems and Processing, vol. 5, no. 3, pp. 31-33, 4th Jan 2021 (<https://doi.org/10.46610/JoESP.2020.v05i03.005>).
3. Md Aref Billaha, B. Bhowmick and S. K. Choudhary”, Inter-subband Photoresponse Analysis of CdS/ZnSe QWIP”, Chap 40 in Advances in Smart Communication Technology and Information Processing,

Lecture Notes in Networks and Systems”, Springer, vol. 165, pp. 417-424, 2021. (ISBN 978-981-15-9433-5) https://doi.org/10.1007/978-981-15-9433-5_40

4. Bhaskar Roy, Ritam Dutta, Md. Aref Billaha and Soumya Basak, “Comprehensive Modeling of AlGaN/GaN Hetrostructure based Gas Sensor: An Analytical Approach” accepted in Journal of Nano- and Electronic Physics, vol. 13, No. 1, 2021 (Scopus Indexed).

5. Khushi Banerjee, Lipika Mandal, Ashmi Chakraborty, Pratik Dey," Capacitor Controlled Oscillator with the help of Operational Transresistance Amplifier ", Journal of Current trends in Electrical Engineering, 2020.

FDP/Seminar/Webinar organized:

1. Organised online webinar as a coordinator on “Data Science” organised by the department of ECE, AEC, West Bengal from on 15th May,2021.

2. Organised a webinar on "FABRICATION OF ELECTRONIC DEVICES"on 5th June 2021 in Asansol Engineering College. Speaker details: Dr. Balwinder Raj, Associate Professor. NITTTR,Chandigarh, INDIA.

3. 3- day workshop on "Embedded System based on Arduino Microcontroller" Phase 1 19/06/2021 and Phase 2 26/06/2021 [IE(I) Students' Chapter, ECE Department and Students Innovation Centre, ECE.

Please send ideas for improvement to.

email: newsletter.ece.aec@gmail.com

The Newsletter is published by the ECE department of Asansol Engineering College.

Editor: Dr. Chiranjib Goswami

Student Editors: Mr. Soumyadeep Maji, Ms. Sonali Gorai

ELECTRO NEWS

Volume – 11, Issue - 1, 2021

Achievement Of Faculty/Staff Members:

Research Publication (Faculty):

1. Aditi Chaubey, Ankita Das, Bhaskar Roy, Bikas Mondal and Md.Aref Billaha, “Design of Arduino Based Voting Machine with Fingerprint Verification”, National conference on Advancement in Multidisciplinary Research in Science, Engineering and Technology (AIMSET-21) held at Sanskrithi School of Engineering ,Andhra Pradesh on 2nd July, 2021.
2. Archibrata Chaudhuri, Promona Dutta, Somesh Tiwary, Bhaskar Roy, Bikas Mondal and Md.Aref Billaha, “Design of a Flask-based Resume Generator Web-Application”, National conference on Advancement in Multidisciplinary Research in Science, Engineering and Technology (AIMSET-21) held at Sanskrithi School of Engineering ,Andhra Pradesh on 2nd July, 2021.
3. Sayani Dutta, Nd.M.Jakir, Bhaskar Roy, Bikas Mondal and Md.Aref Billaha, “Design of a Air Parameters Detector for Current Location using Web-Application”, National conference on Advancement in Multidisciplinary Research in Science, Engineering and Technology (AIMSET-21) held at Sanskrithi School of Engineering ,Andhra Pradesh on 2nd July, 2021.
4. Sreya Ghosh, Vaswati Das, Bhaskar Roy, Bikas Mondal and Md.Aref Billaha, “Design of a Ultrasonic Sensor Based Automatic Water Level Monitoring System”, National conference on Advancement in Multidisciplinary Research in Science, Engineering and Technology (AIMSET-21) held at Sanskrithi School of Engineering ,Andhra Pradesh on 2nd July, 2021.

Patent Publication (Faculty):

1. Patent published by Mr. Bhaskar Roy-

i) Intelligent Wearable Sweat Sensor Based Device for Monitoring and Recommending Personal Physical Fitness Patent Application No.: 202111032293, published by Indian Patent Journal (Govt. of India) (Indian Patent Office) Publication Date (U/S 11A): 06/08/2021 .

2. Patent published by Dr. Bikas Mondal-

i) Sensor Based Intelligent Brain Computer Interface System to Assist Hand Paralyzed Patients to Perform Typing by Brain Patent Application No.: 202141036577, published by Indian Patent Journal (Govt. of India) (Indian Patent Office) Publication Date (U/S 11A): 20/08/2021.

3. Patent published by Dr. Ashmi Chakraborty-

i) Sensor Based Intelligent Digital Nose to Detect Spoilage of Food using Machine Learning Patent Application No.: 202141042368, published by Indian Patent Journal (Govt. of India) (Indian Patent Office) Publication Date (U/S 11A): 01/10/2021.

Book Publication (Faculty):

1. Ayaz Ahmad, Bikas Mondal, Lipika Mandal and Bhaskar Roy, "Biomedical Instrumentation Engineering", 1st Edition, Scientific International Publishing House, ISBN: 978-93-92992-01-8, 2021.

(<https://sipinternationalpublishers.com/product-detail.php?PID=NTQ=>)

Achievement (Faculty):

1. Mr. Amit Kumar Rai Coordinated the online training course on "Basics of Geocomputation and Geoweb Services" conducted by IIRS-ISRO Department of Space, Government of India, during October 25, 2021 to November 02, 2021.

FDP attended by faculty:

1. ICT based STTP on "Advance PCB Designing" organised by Logiczap Technologies in association with NIT Durgapur, from 5th July to 8th July 2021.

2. ICT based FDP on "Recent Trends in Semiconductor Devices,VLSI Circuits and Nano Technology" organised by Narula Institute of Technology,Kolkata from 12th July to 17th July 2021.

3. ICT based STTP on "Innovative and Inventive Problem Solving" organised by AISSMS College of Engineering,Pune from 13th July to 18th July 2021.

4. ICT based ATAL FDP on "Nanotechnology for Electronic and Photonic Devices (NanoDev-2021)" organised by Punjab Engineering College,Chandigarh from 12th July to 17th July 2021.

5. ICT based AICTE sponsored FDP on "Simulation with MATLAB from Device to Circuit" organised by JISCE,Kalyani, West Bengal from 9th to 14th August 2021.

6. ICT based FDP on "Research Excellence and Academic Development" organised by SRI RAMAKRISHNA college of Arts and Science from 1st to 8th September 2021.

7. ICT based FDP on "IoT: Past,Present and Future" organised by ECE Dept.,BPPIMT Kolkata from 2nd to 7th September 2021.

8. ICT based FDP on "Recent Trends in Energy & Power Systems" organised by SELECT,VIT Chennai from 6th to 9th September 2021.

9. ICT based workshop on "4.0 Overseas" organised by KIET, Delhi from 20th to 24th September 2021.

14. ICT based FDP on "Emerging Technologies for Sustainable Development" organised by Amity University, Rajasthan from 20th to 24th September 2021.

10. ICT based AICTE STTP on "Simulation with MATLAB –From Device to Circuits" organised by JISCE, Kalyani from 20th to 25th September 2021.

11. ICT based STTP on “Conduction of Laboratory Classes for Electronics & Communication Engineering During Pandemic” organised by MCKVIE, Howrah from 25th to 29th October 2021.
12. ICT based STTP on “Recent Trends in VLSI-Design” organised by NIT, Meghalaya from 27th September to 1st October 2021.
13. ICT based FDP on “Innovations in Electric vehicles,Energy Storage and Smart Grid Interaction” organised by SAI RAM Institute of Technology, Chennai from 13th December to 17th October 2021.
14. FDP on “Internal Quality Assurance Cell,JIS university from 09.08.2021 to 13.08.2021.
15. FDP on “Recent trends in Energy & Power systems organized by the School of Electrical Engineering, Vellore Institute of Technology, Chennai from 06.09.2021 to 09.09.2021.
16. ATAL FDP: AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Internet of Things an Emerging Technology in Electronics Industry" from 2021-07-19 to 2021-07-23 at Institute of Engineering and Technology, Devi Ahilya University, Indore.
17. AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "MEMS Technology & Microsensors" from 2021-07-26 to 2021-07-30 at National Institute of Technology Meghalaya.
18. AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Internet of Things an Emerging Technology in Electronics Industry" from 2021-07-19 to 2021-07-23 at Institute of Engineering and Technology, Devi Ahilya University, Indore.
19. AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Emerging Techniques and Applications in IoT" from 09/08/2021 to 13/08/2021 at VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY.
20. AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Emerging Materials, Sensors and Devices in Industry", organized by Sikkim Manipal Institute of Technology during for IoT and Industry 4.0" from 23/08/2021 to 27/08/2021 at C.V. Raman Global University.
21. One week FDP program “Recent Trends in Semiconductor Devices, VLSI Circuits and Nano Technology” RTSDVCNT-2021, held in the ECE Department, Narula Institute of Technology from 12th July to 17th July 2021.
22. Attended 6 Days online AICTE sponsored STTP on "IOT and its application 19th-24th, July 2021.
23. Online National Level Short Training Program (STTP) on Outcomes-Based Teaching, Assessments and Evaluation, Jointly organized by NBN Sinhagad School of Engineering, Pune and Inpods Inc., USA from 2nd – 4th August 2021.
24. AICTE Sponsored STTP on Simulation with MATLAB-From Device to Circuit, Phase-I, held from 09.08.2021 to 14.08.2021 organized by BSHU (PHY-CHEM-MATH-HU) JIS College of Engineering, Kalyani, India.

25. "One Week International FDP on Research Excellence and Academic Development" organized by Department of Commerce, Sri Ramakrishna College of Arts and Science in Coimbatore, Tamil Nadu, India with Professional Accounting from 01.09.2021 to 08.09.2021.
26. FDP on IoT from 12/7/2021 to 16/7/2021 organized by AICTE TRAINING AND LEARNING(ATAL) and Chandigarh College of Engineering and Technology.
27. FDP on "Outcome Based Education (OBE) and NBA Accreditation Process" from 20/09/2021 to 24/09/2021 organized by AICTE TRAINING AND LEARNING(ATAL) and Government Polytechnic Pen.
28. ICT based STTP on "Advance PCB Designing" organised by Logiczap Technologies in association with NIT Durgapur, from 5th July to 8th July 2021.
29. ICT based FDP on "Recent Trends in Semiconductor Devices,VLSI Circuits and Nano Technology" organised by Narula Institute of Technology,Kolkata from 12th July to 17th July 2021.
30. ICT based STTP on "Innovative and Inventive Problem Solving" organised by AISSMS College of Engineering,Pune from 13th July to 18th July 2021.
31. ICT based ATAL FDP on "Nanotechnology for Electronic and Photonic Devices (NanoDev-2021)" organised by Punjab Engineering College,Chandigarh from 12th July to 17th July 2021.
32. ICT based AICTE sponsored FDP on "Simulation with MATLAB from Device to Circuit" organised by JISCE,Kalyani, West Bengal from 9th to 14th August 2021.
33. ICT based FDP on "Research Excellence and Academic Development" organised by SRI RAMAKRISHNA college of Arts and Science from 1st to 8th September 2021.
34. ICT based FDP on "IoT: Past,Present and Future" organised by ECE Dept.,BPPIMT Kolkata from 2nd to 7th September 2021.
35. ICT based FDP on "Recent Trends in Energy & Power Systems" organised by SELECT,VIT Chennai from 6th to 9th September 2021.
36. ICT based workshop on "4.0 Overseas" organised by KIET, Delhi from 20th to 24th September 2021.
37. ICT based FDP on "Emerging Technologies for Sustainable Development" organised by Amity University, Rajasthan from 20th to 24th September 2021.
38. ICT based AICTE STTP on "Simulation with MATLAB –From Device to Circuits" organised by JISCE, Kalyani from 20th to 25th September 2021.
39. ICT based STTP on "Conduction of Laboratory Classes for Electronics & Communication Engineering During Pandemic" organised by MCKVIE, Howrah from 25th to 29th October 2021.

40. ICT based STTP on “Recent Trends in VLSI-Design” organised by NIT, Meghalaya from 27th September to 1st October 2021.

41. ICT based FDP on “Innovations in Electric vehicles,Energy Storage and Smart Grid Interaction” organised by SAI RAM Institute of Technology, Chennai from 13th December to 17th October 2021.

42. Open-Source & Research Tools and Techniques, Department of Computer and Communication Engineering, Manipal University Jaipur held online during 22-26 November 2021.

43. FDP on "GIS & Remote Sensing" , AICTE Training And Learning (ATAL) Academy, from 2021-07-06 to 2021-07-10 at Institute of Engineering & Technology, Devi Ahilya University, Indore.

44. National workshop on " Recent Advancements in Engineering & Technology held from 15th - 19th November, 2021 at Regional College for Educational Research & Technology, Jaipur.

45. AICTE Quality Improvement Scheme (AQIS) sponsored one week online Short Term Training Program on “Innovative & Inventive Problem Solving” organised by Department of Production Engineering, AISSMS COE, Pune during 13th July to 18th July 2021.

46. AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Nano Electronics and RF Engineering" from 06/09/2021 to 10/09/2021 at SRM Institute Of Management and Technology.

47. .AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Antenna: Design, Fabrication and Measurement" from 2021-8-2 to 2021-8-6 at G B Pant Institute of Engineering and Technology.

48. AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Modern Antenna Technologies for Futuristic Wireless Communication Systems" from 20/08/2021 to 24/08/2021 at Guru Jambheshwar University of Science and Technology, Hisar, Haryana-125001.

Please send ideas for improvement to.

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The Newsletter is published by the ECE department of Asansol Engineering College.

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Student Editors: Mr. Subha Sundar Chakraborty, Ms. Ankita Choudhary

ELECTRO NEWS

Volume – 12, Issue - 2, 2022

Research Publication (Faculty):

1. Amit Kumar Rai, Rupam Dasgupta, Sandip Ghosh, Renesha Chakraborty, Rounak Banerjee, Saptarshi Banerjee, Shouvik Neogi "Face Mask Detection Model for the identification of non-masked faces using an Artificial Neural Network ", Volume 9, Issue IV, European Journal of Advances in Engineering and Technology Page No: 455-459, April-2022, ISSN : 2394-658X.
2. Amit Kumar Rai, Samapti Rudra, Sourav Karmakar, Sourav Bhattacharyya, Mousumi Mitra, Mousumi Roy, Tomaly Nayak "Converting Audio Signal into Text in Python Using Speech Recognition API", Volume 9, Issue IV, European Journal of Advances in Engineering and Technology Page No: 460-464, April-2022, ISSN : 2394-658X.
3. S. Arosh, K. Ghosh, D. K. Dheer, S. Prakash – "Composite imagery-based non-uniform illumination sensing for system health monitoring of solar power plants" in ASME J. Solar Energy Engineering, DOI: <https://doi.org/10.1115/1.4054921> SCI indexed, Impact Factor – 2.
4. Moitreyee Bose, Partha Maji, Pamela Ghosh, Avisekh Bowri, Sugata Dutta, Sudip Mondal, Saswata Chakraborty, Kuntal Ghosh "Gesture Control using Python" in IJRPR, June 2022.
5. Swati Bhattacharjee, Santimoy Mandal, Chandan Kumar Ghosh, and Soumen Banerjee "Reduction of Mutual Coupling and Cross-Polarization of Microstrip MIMO Antenna Using Electromagnetic Soft Surface (EMSS)" Radio Science, 57, e2021RS007377.<https://doi.org/10.1029/2021RS007377>, (28.04.2022)(SCI-index).
6. Swati Bhattacharjee, Kundan Sharma, Koushik Layek, Ayushi Shaw, Suprime Giri, Pragati Kundu, Biswajeet Chatterjee "COVERED FACE DETECTION FOR ENHANCED SURVEILLANCE USING DEEP LEARNING" International journal of innovative research and technology, Volume 8 Issue 11 April 2022, PaperID- 154573.
7. T.Maity, S.Das, U.Chatterjee, S. Das, S.Mandal, B.Bhowmick (2022), "Blood Bank Management System using netbeans and mysql", IJRPR, vol 3, no.6, pp 1709-1713.
8. Pijus Pyke , Prajit Paul , Sayan Bhattacharya³ , Rima Dawn⁴ , Paramita Das⁵ , Koushik Chakraborty⁶ , Sourav Kumar Pandey⁷. Stock Price Prediction using Machine Learning with Python. June 2022, IJIRT Volume 9 Issue 1 | ISSN: 2349-6002.

Patent Publication (Faculty):

1. Aamir Junaid Ahmad, Garima Verma, Dr. Sandip Debnath, Dr. Arunava De, D.Krishna, Dr.Vishal Saxena, Dr. Pratap Patil " A System for Genomic Information Compression By Configurable Machine Learning-Based Arithmetic Coding", Application no. 202231006793.

2. K.Ghosh, S. P. Duttagupta, A. Guha – “Lighter than air platform for optimized solar power generation.”– IITB/163/MUM/2014-Indian Patent No: 398521, received grant on 03/06/2022.

3. Tanya Garg, Dr.Sunita Sunil Shindey, Dr.Sheshang Degadwala, Dr. Nazia Wahid,Simmi Chawla, Swati Bhattacharjee “An IOT and machine learning based methodology of spectrum sensing of cognitive radio systems using cluster based procedure” Application no-202211005010 IPR,04.02.2022.

FDP attended by Faculty:

1. Sumanta Karmakar has attended Digital Intellectual Property Awareness Program from 17-02-2022 to 21-02-2022, organised by NITTTR, Kolkata.

2. Mr. Amit Kumar Rai has attended Future Trends in Wireless Communications and Devices (FTWCD)" from 10-02-2022 to 14-02-2022 organized by Electronics Engineering Department, Rajkiya Engineering College Sonbhadra UP.

3. Dr. Kuntal Ghosh has attended Statistical Methods for Manufacturing Engineering, 28-12-2021, Jadavpur University, Kolkata.

FDP/ Webinar/ Seminar organized by Faculty:

1. Mr. Amit Kumar Rai, working with Asansol Engineering College, has coordinated the online training course on Overview of Geoprocessing using Python conducted by this institute during January 17, 2022 to January 28, 2022.

2. Dr. Kuntal Ghosh working with Asansol Engineering College, has coordinated Semiconductor Device, Microwave & Renewable Energy - 21st Sep, 2021 - 25th Sep, 2021, Asansol Engineering College.

3. Dr. Kuntal Ghosh working with Asansol Engineering College, has coordinated National Intellectual Property Awareness Mission, 10th June, 2022, NIPAM, India.

Book Chapter Published:

1. Smriti, Sabita Pal, Kundan Kumar, and Kuntal Ghosh. "Development of Conceptual Framework for Reinforcement Learning Based Optimal Control." In Innovation in Electrical Power Engineering, Communication, and Computing Technology, pp. 339-348. Springer, Singapore, 2022.

Events Organized in the Department:

1. Webinar on "Trends on High Frequency Communications" 25/02/2022.

2. IEI STUDENTS' CHAPTER - ELECTRONICS INNOVATION 7.0 - 03/06/2022.

Students' Achievement:

1. "Automatic Hand Sanitizer" project made by Subha Sundar Chakraborty (Student of ECE-3rd Year) won JIS SAMMAN-2022 in best project category (Institutional Level) secured 3rd Position.

2. Mayank Raj of Third Year ECE scored all India rank of 6510 in GATE exam 2022.

Please send ideas for improvement to.

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The Newsletter is published by the ECE department of Asansol Engineering College.

Editor: Dr. Saswata Chakraborty

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