

# **STUDENT'S RESEARCH PUBLICATION**



**GURU NANAK INSTITUTE OF TECHNOLOGY**



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# STUDENT PUBLICATION

(Upto June,2020)

Dept	National Journal	National Seminar/Conference	International Journal	International Seminar/Conference	Total
CSE	0	4	19	29	52
ECE	0	0	8	16	24
EE	0	13	2	26	41
IT	0	0	12	12	24
FT	10	48	21	37	116
AEIE	0	3	2	12	17
CA	0	0	2	0	2
<b>TOTAL</b>	<b>10</b>	<b>68</b>	<b>66</b>	<b>132</b>	<b>276</b>

### STUDENT PUBLICATION SUMMARY BREAKUP

Academic Year	Dept	National Journal	National Seminar/Conference	International Journal	International Seminar/Conference	Total
2019-20	FT	0	0	4	15	19
	AEIE	0	0	0	4	4
	IT	0	0	0	5	5
	CSE	0	0	3	19	22
	EE	0	1	0	18	19
	ECE	0	0	0	12	12
	ASHU	0	0	0	0	0
		<b>0</b>	<b>1</b>	<b>7</b>	<b>73</b>	<b>81</b>
2018-19	FT	0	6	4	0	10
	AEIE	0	0	0	0	0
	IT	0	0	6	4	10
	CSE	0	2	6	4	12
	EE	0	2	0	3	5
	ECE	0	0	0	0	0
	ASHU	0	0	0	0	0
		<b>0</b>	<b>10</b>	<b>16</b>	<b>11</b>	<b>37</b>
2017-18	FT	0	14	9	1	24
	AEIE	0	0	0	6	6
	IT	0	0	4	0	4
	CSE	0	0	1	6	7
	EE	0	10	0	5	15
	ECE	0	0	0	3	3
	ASHU	0	0	0	1	1
		<b>0</b>	<b>24</b>	<b>14</b>	<b>22</b>	<b>60</b>
2016-17	FT	8	24	5	12	49
	AEIE	0	3	2	2	7
	IT	0	0	1	0	1
	CSE	0	2	4	0	6
	EE	0	0	2	0	2
	ECE	0	0	3	0	3
		<b>8</b>	<b>29</b>	<b>17</b>	<b>14</b>	<b>68</b>
2015-16	CSE	0	0	6	0	6
	ECE	0	0	5	1	6

EE	0	0	0	0	0
IT	0	0	1	3	4
FT	2	8	0	10	20
AEIE	0	0	0	0	0
ASH	0	0	0	0	0
CA	0	0	2	0	2
	<b>2</b>	<b>8</b>	<b>14</b>	<b>14</b>	<b>38</b>



**2019-20****DEPARTMENT: FT****International Seminar / Conference**

- **Purba Dutta, Anirzeet Pramanik (2019) “Comparison of Frying Stability of Vegetable Oil with and Without Adding Black Cumin Seeds”** Abstract Accepted and Presented in International Conference “FEMAS 2019” organized by GNIT, held on 26<sup>th</sup> and 27<sup>th</sup> September, 2019..
- **Ishon Mallick, Poulami Banerjee (2019) “Enhancement of Nutraceutical Characteristics Baked Products”** Abstract Accepted and Presented in International Conference “FEMAS 2019” organized by GNIT, held on 26<sup>th</sup> and 27<sup>th</sup> September, 2019.
- **Piyali Bannerjee (2019) "Effect of Irradiation on Food: Review"** Abstract Accepted and Presented in International Conference “FEMAS 2019” organized by GNIT, held on 26<sup>th</sup> and 27<sup>th</sup> September, 2019.
- **Ishon Mallick, Poulami Banerjee (2019) “Fortification of Ice Cream”** Abstract Accepted and Presented in International Conference “FEMAS 2019” organized by GNIT, held on 26<sup>th</sup> and 27<sup>th</sup> September, 2019.
- **Mariya Mukherjee, Soumily Misra (2019) “A Review on Citrus Fruit Peels as Potential Source of Some Beneficial Nutrients”** Abstract Accepted and Presented in International Conference “FEMAS 2019” organized by GNIT, held on 26<sup>th</sup> and 27<sup>th</sup> September, 2019.
- **Srijeeta Saha, Arunima Singha (2019) “IMF: Enhance The Self Life of Food”** Abstract Accepted and Presented in International Conference “FEMAS 2019” organized by GNIT, held on 26<sup>th</sup> and 27<sup>th</sup> September, 2019.
- **Rajdeep Chakraborty, Ayan Malakar, (2019) “Role of Neuropsychology – affecting individual discretion in food selection”** Abstract Accepted and Presented in International Conference “FEMAS 2019” organized by GNIT, held on 26<sup>th</sup> and 27<sup>th</sup> September, 2019.

- **Saurjaynee Biswas, Nibedita Chowdhury, Deborima Bera (2019) “Therapeutic Foods: A Solution for Malnutrition at a Low Cost”** Abstract Accepted and Presented in International Conference “FEMAS 2019” organized by GNIT, held on 26<sup>th</sup> and 27<sup>th</sup> September, 2019.
- **Ayushi Nandy, Pooja Shaw, Shalini Chanda, (2020) “A review on energy conversion from rice straw waste”** Abstract Published and Presented in International Conference **ICORE 2020 (ISBN: 978-93-5396-201-2)** organized by GNIT in collaboration with SESI held on 7<sup>th</sup> and 8<sup>th</sup> February .
- **Srijeeta Saha , Sourini Sen, Sourav Das, (2020) “Food coloring: Improving of the Appearance of Food”** Abstract Published and Presented in International Conference **ICORE 2020 (ISBN: 978-93-5396-201-2)** organized by GNIT in collaboration with SESI held on 7<sup>th</sup> and 8<sup>th</sup> February .
- **Ishon Mollick, Mariya Mukherjee, Soumily Misra, (2020) “Sesame Protein Isolates: Potential Sources of Nutrition”** Abstract Published and Presented in International Conference **ICORE 2020 (ISBN: 978-93-5396-201-2)** organized by GNIT in collaboration with SESI held on 7<sup>th</sup> and 8<sup>th</sup> February .
- **Sayanan Sarkar, Somdeepa Bhattacharya, Neha Das, Poulami Das, (2020) “Application of Various Techniques for Meat Preservation”** Abstract Published and Presented in International Conference **ICORE 2020 (ISBN: 978-93-5396-201-2)** organized by GNIT in collaboration with SESI held on 7<sup>th</sup> and 8<sup>th</sup> February .
- **Baidik Sinha Ray, Sayandeep Halder, (2020) “Effect of coffee on human Health”** Abstract Published and Presented in International Conference **ICORE 2020 (ISBN: 978-93-5396-201-2)** organized by GNIT in collaboration with SESI held on 7<sup>th</sup> and 8<sup>th</sup> February .
- **Pritam Bar, (2020) “A review on cold plasma technology in food processing”** Abstract Published and Presented in International Conference **ICORE 2020 (ISBN: 978-93-5396-201-2)** organized by GNIT in collaboration with SESI held on 7<sup>th</sup> and 8<sup>th</sup> February .
- **Poulami Das, Neha Das, Somdeepa Bhattacharya, Sayanan Sarkar, (2020) “Review on utilization of pineapple waste”** Abstract Published and Presented in International Conference **ICORE 2020 (ISBN: 978-93-5396-201-2)** organized by GNIT in collaboration with SESI held on 7<sup>th</sup> and 8<sup>th</sup> February .

### International Journal

- **Anindya Dhar & Poulami Chakraborty** “A review on extraction of glucose from rice” *The Pharma Innovation Journal*, 2019; 8(5): 397-398, ISSN (P): 2349-8242, NAAS Rating 5.03, Impact Factor 5.98, ICV:82.77. Peer Reviewed Journal, Refereed Journal, Indexed Journal.
- **Anirzeet Pramanik & Purba Dutta** "A Review on Microbial-Pigment: A Good Source of Biocolour" *The Pharma Innovation Journal*, 2019; 8(5): 397-398, ISSN (P): 2349-8242, NAAS Rating 5.03, Impact Factor 5.98, ICV:82.77. Peer Reviewed Journal, Refereed Journal, Indexed Journal.
- **Arnab Saha** “A Review on Mushroom: A Cancer Antidote *Journal of Emerging Technologies and Innovative Research* 6(12):764-774 (2019),( ISSN-2349-5162) Impact Factor-5.87
- **Ishon Mollick,**”Fortifications in Ice-cream with enhanced functional properties: A Review”, *International Journal for Modern Trends in Science and Technology* ISSN: 2455-3778, 6(May): 2020 Web of Science, ResearcherID AAJ-4390-2020, impact factor: 3.320, Elsevier Indexed.

### DEPARTMENT: AEIE

### International Conference

- **Oindrila Ghatak, Hiya Mandal, Monojit Mondal, Gurpreet Kaur, Sunipa Roy, Paramita Banerjee,** “Effect of Stacked Membrane in MEMS based Microheater Structure for Electronic Nose Application” FEMAS 2019, September 26-27 at GNIT, Kolkata, India.
- **Sudip Kuila, Sanghamitra Layek , Swagat Das ,Tamasha Paul,Souvik Das** “Assessment of diabetes through Exhalation” ICORE 2020, February 6-7 at GNIT, Kolkata, India.
- **Bapita Roy, Paramita Banerjee, Sayani Dey, Shilpita Hazra, Sonali Das** “Development of Non-Contact Type Surface Roughness Measurement System” ICFTTAE 2020 at NIT, Kolkata, India.
- **Sudip Kuila, Surajit Bagchi** “Noninvasive Assesment of Diaberis Mellitus” ICFTTAE 2020 at NIT, Kolkata, India.

**DEPARTMENT: CSE****International Conference**

- Sandip Kumar Karmakar, Poulomi Kumar, Prothit Das, Joydeep Mukherjee, "**IOT Based Microcontroller operated Noise management with efficient Power consumption Strategy in a Smart Library System**" published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.
- Bikramjit Das, " **IOT Based Quad-Copter for Sowing Seed, Sprinkling Fertilizer and identifying Suitable Crop in a Farming Land by Soil analysis and Weather Prediction**" published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.
- Yogesh Singh, Utattha Banerjee, Snigdha Mazumdar, "**Human Motion Detection with Activity Tracking using OpenPose and modified Optical Flow**" published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.
- Prafull Kumar, Priyam Halder, Rupak Dey, Sampriti Ghosh, "**MiDoLS: A Microcontroller based Door Lock System**" published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.
- Biplab Roy, Aindrilla Majumder, Neela Chattopadhyay, "**Implementation of Voice Controlled Robot using Arduino: A Novel Approach**", published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.
- Debleena Dutta, "**HFRS: A Microcontroller based Human Face Recognition System**" published in International Conference on Frontiers in Engineering, Management and



Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

- Ankita Adhikary, Amlan Dutta, "**Smart Home Automation based on sensors and Microcontroller**" published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.
- **Pritam Saha, Partha Pratim Dey, Pronoy Dewanjee, "An Approach to Next Generation Lighting Method Using IoT and Gesture"** published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.
- Soumili Ganguly, Suparna Hazra, Swagata Sen, Tapanova Khanra, "**Comparative Study of different Machine Learning Algorithms for Heart Disease Prediction**" published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.
- **Sourish Mitra, Sandip Kumar Shaw, Sandip Karmakar, Bidyutmala Saha, Rafiqul Islam, Santanu Kumar Sen, "IOT based Mobile controlled ORC (Orthospinal roundback Curveture)-Kyphosis detection and measurement technique of Human spine"** published in International Conference on Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8<sup>TH</sup> Feb, 2020.
- **Amrut Ranjan Jena, Mandira Banik, Sumit Banerjee, Anumita Das, "WORDPRO, an Open Source Smart Word Processing Tool using Web technology and Android"** published in International Conference on Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8<sup>TH</sup> Feb, 2020.
- **Srabani Kundu, "Micro Controller Based Automated Traffic Monitoring System"** published in International Conference on Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8<sup>TH</sup> Feb, 2020.
- **Amrut Ranjan Jena, "A Fuzzy Graph Recurrent Neural Network Approach for the Prediction of Radial Overcut in Electro Discharge Machining"** published in International Conference ICADCML 2020 (Springer Conference Proceeding with Scopus indexing) 30-31<sup>st</sup> January, 2020

- **Mandira Banik, Subhadeep Saha, Sourav Basak, Subhrajit Roy, Suman Roy Choudhury, "Self Driving Car using Raspberry Pi"** published in International Conference on Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8<sup>TH</sup> Feb, 2020.
- **Pallabi Das, Nirupam Saha, Bishal Kumar Shaw, Bishal Lama, Sameema Nasrin, Rajveer Singh, "IoT Based Remote Monitoring System of Pregnant Women in Rural Area"** published in International Conference on Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8<sup>TH</sup> Feb, 2020.
- **Dr. Sangeeta Bhattacharyya, Bikramjit Das, Biplab Roy, Debanjana Ghosh, Ankita Adhikari, Diganta Das, " DHaP: A Novel Neural Network based Digitization of Handwritten Prescription"**, published in International Conference on Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8<sup>TH</sup> Feb, 2020.
- **Subhadeep Saha, Mandira Banik, Sourav Basak, Subhrajit Roy, Suman Roy Choudhury, "Smart Home Automation based on Sensors and Microcontroller"** published in International Conference on Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8<sup>TH</sup> Feb, 2020.
- **Ipsita Saha, Yogesh Singh, Saswata Mukhopadhyay, "Processors for sustainability: An analysis of modern processors for power efficient IoT uses."** published in International Conference on Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8<sup>TH</sup> Feb, 2020.
- **Moloy Dhar, Jhumpa Das, Disha Gaine, Durba Dey, "Human Activity Recognition"** published in International Conference on Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8<sup>TH</sup> Feb, 2020.

## **International Journal**

- Sandip Kumar Karmakar, Sandip Shaw, Sourish Mitra, **"Iot Based Finger-Print-Scanning-Biometric-Panel With Advanced Infra-Thermal-Scanning Strategy Comprising Of Automated Sanitizer-Spraying-Disinfectant-Gateway-Tunnel"** published in international Journal International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348-1269, P- ISSN 2349-5138, ISSN and UGC Approved, 5.75 Impact factor.

- Rohan Chakraborty, Subhajt Sanyal, **Pallabi Das**, “**IoT based Thermal Signature Detector with Alarm & E-mail Notification with Integrated Social Gathering Screening using Computer Vision**” published in The International Journal of Emerging Technology and Advanced Engineering-ISSN 2250–2459, Volume 10, Issue 4, pp-164-171, April 2020 UGC Approved, Impact Factor of 6.351.
- Biplab Roy, Aindrilla Majumder, Neela Chattopadhyay, **Moloy Dhar, Amrut Ranjan Jena, Mandira Banik** “Implementation of Voice Controlled Robot using Arduino: A Novel Approach” published in International Journal of Emerging Technology and Advanced Engineering (ISSN 2250–2459(Online), An ISO 9001:2008 Certified Journal), Volume 10, Issue 04, April, 2020.

### **DEPARTMENT: IT**

#### **International Conference**

- **Pradipta Karmakar** “**Discrimination of Text and Non-Text Image**” International Conference on Emerging Trends in Electro-Mechanical Technologies and Management (TEMT-2019), 24-27 July, 2019. Proceedings in Springer, Indexes by Scopus.
- **Puja Mukherjee, Niladri Sen, Sandipan Kar**, “**Visual Cryptography for Online Certificate Authentication**”.Frontiers in Engineering, Management and Applied Science (FEMAS-2019) 26-27 September, 2019.
- **Arkajyoti Chakraborty**, “**Repairing of functional TSVs using Redundant TSVs**”. Frontiers in Engineering, Management and Applied Science (FEMAS-2019) 26-27 September, 2019.
- **Monishankar Nath, Arnab Banerjee, Prithwish Das** “**Congestion Control Approach by Controlling Number of Messages Dynamically and by Sharing the.**” Frontiers in Engineering, Management and Applied Science (FEMAS-2019) 26-27 September, 2019.
- **Rizwi Salim, Kumarika Mukherjee**, “**Text detection from camera captured image**” Frontiers in Engineering, Management and Applied Science (FEMAS-2019) 26-27 September, 2019.

### **DEPARTMENT: EE**

- **Romika Saha, Rishab Halder, Roney Banerjee, Souradeep Bhattacharjee, “Single phase transformerless grid connected solar PV system with auto-synchroniser”,** published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8<sup>th</sup> Feb 2020.
- **Moumi Roy Chowdhury, Ms.Koyena Majumdar, Mr.Bishal Manna, Mr.Debnil Majumdar, Mr.Arnab Podder, “Arduino Based Parking Lot”,** published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8<sup>th</sup> Feb 2020.
- **Ramanuj Bhowmick, Arijit Das, Meghna Sengupta, Subhodeep Sarkar, “Solar cooker (Box type)”,** published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8<sup>th</sup> Feb 2020.
- **Swaraj Sharma, Rakesh Kumar, Shahbaz Khan, Suvronil Jana, Tushar Kumar, “Solar Car”,** published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8<sup>th</sup> Feb 2020.
- **Tanushree Chatterjee, “Adaptive Protection Schemes for Wide Area Network: A Review”,** published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8<sup>th</sup> Feb 2020.
- **Arghyadip Chakraborty, Sudipta Mahanti, Suman Mishra, Nilanjan Naha, Swarna Kiran Mallik, “Advance Railway Signaling & Crossing System Using Scada”,** published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8<sup>th</sup> Feb 2020.
- **Santanu Das, Pratip Bera, Pritam Khanra, Prantic Sen, Sandeep Mondal, “Low Cost Fingerprint Based Electronic Voting Machine”,** published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8<sup>th</sup> Feb 2020.
- **Saif Ali, Sayoni Ghosh, Sayantan Saha, “Laboratory Prototype of a Smart Solar Air Cooler”,** published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8<sup>th</sup> Feb 2020.

- **Kinkini Adhikari, Ankita Bhowmick, Debjit Sarkar, “Neural Protective Relay”,** published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8<sup>th</sup> Feb 2020.
- **Anirban Chandra, Nilabha Roy, Taniya Roy, “Static series compensator and static transfer switch for voltage dip mitigation with short interruptions”,** published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8<sup>th</sup> Feb 2020.
- **Subhojyoti Roy, Subhranil Ghosh, Sourav Ghosh, Sourodeep Sett, “Automatic Street Lights Control Using LDR”,** published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8<sup>th</sup> Feb 2020.
- **Ashish Gupta, Shuvam Patra, Shubhro Kundu, Sousam Kar, Subhojit Ghosh, “Bionic Glove: Universal Remote rehabilitation of the paralytics”,** published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8<sup>th</sup> Feb 2020.
- **Amit Agarwal, Anshumita Banerjee, Ankita Sinha, Ankita Biswas, Abijit Samanta, “Green House And Modern Gardening Technique”,** published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8<sup>th</sup> Feb 2020.
- **Poushali Gope, Sharmista Guha, Suman Sarkar, Rakesh Biswas, Rahul Singh, “Blood vessel segmentation of fundus images using image processing”,** published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8<sup>th</sup> Feb 2020.
- **Rahul Mukherjee, Supal Shee, Sougata Seth, Soumodeep Paul, “Automatic room light controller using Microcontroller and visitors counter”,** published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8<sup>th</sup> Feb 2020.
- **Sudip Das, Alia Hussain, Arunava Banerjee, Ayan Kumar Karar “Automatic home lighting solution using human detection, sunlight intensity & room temperature sensor”,** published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8<sup>th</sup> Feb 2020.

- **Subhajit Dutta, Sourav Das, Anirban Bera, Soumya Dhang, Nayan Hazra, “Flame Seeker and Extinguishing Robot”,** published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8<sup>th</sup> Feb 2020.
- **Subharshi Roy, Bikram Das, Debanjan Chatterjee, Soudip Maji and Soumik Mandal published "Wireless Transmission of Energy from Floating Microgrids to Electric Ships by High Powered Inductive Charging Method" published in International Congress on Renewable Energy, 2020 (ICORE 2020), ISBN Number : 978935396-201-2, 7-8 FEBRUARY 2020.**
- **Arpan Mondal, Ayush Kumar Giri, Saumyadeep Bhattacharyya, Debadrita Paul, Sanchayan Banerjee, “Development of a Low Cost Automated Fire Fighting Robot”,** published in Forum of Scientists, Engineers & Technologists (FOSET 2020), 11th Inter University Engineering, Science & Technology Academic Meet – 2020 & Innovative Model Competition for a Sustainable Society, 15<sup>th</sup> March 2020.

#### **DEPARTMENT: ECE**

#### **International Conference**

- **Md. Rahbar Hussain, Amrita Banerjee " Low Threshold Voltage AlGaAs/GaAs High Electron Mobility Transistor and AlGaN/GaN High Electron Mobility Transistor: A comparative Study",** International Conference - Frontiers in Engineering, Management and Applied Science - 2019, ISBN No: 978-93-5391-015-0, 26-27 September, 2019.
- **Md. Azhar Hussain " Programmable Wireless Based Telerobotics Surgery with heartbeat measurements and blood pressure and blood sugar measurements",** International Conference - Frontiers in Engineering, Management and Applied Science - 2019, ISBN No: 978-93-5391-015-0, 26-27 September, 2019.
- **Aprajita Bhagat, Arijeet Saha, Apurba Samanta, Eepsita Das, Antara Ghosh, Swagata Bhattacharya, , " Automated Greenhouse Controller",** International Conference - Frontiers in Engineering, Management and Applied Science - 2019, ISBN No: 978-93-5391-015-0, 26-27 September, 2019.
- **Shinjini Saha, Sanchari Saha, Senjuti Mazumdar, Taniya Mitra “All-in-one Self Defense Device for Women”,** International Conference on Frontiers in Engineering, Management and Applied Science , Guru Nanak Institute of Technology, Kolkata, 26th - 27th September 2019. ISBN No: 978-1-5386-1484-6.

- **Suman Mallick, Udita Pal, Torsa Mukherjee, Sreyashi Biswas and Tejpal Singh, “AI Based Health Care System for 24x7 Monitoring of Patients using IOT”**, International Conference on Frontiers in Engineering, Management and Applied Science , Guru Nanak Institute of Technology, Kolkata, 26th - 27th September 2019. ISBN No: 978-1-5386-1484-6.
- **Santanu Saha, Shobhandeb Paul and Suvashish Paul, “Smart Baby Monitoring System using IOT”**, International Conference on Frontiers in Engineering, Management and Applied Science , Guru Nanak Institute of Technology, Kolkata, 26th - 27th September 2019. ISBN No: 978-1-5386-1484-6.
- **Oindrila Ghatak, Hiya Mandal, Monojit Mondal, Gurpreet Kaur, “Effect of Stacked Membrane in MEMS based Microheater Structure for Electronic Nose Application”** International Conference on Frontiers in Engineering, Management and Applied Science , Guru Nanak Institute of Technology, Kolkata, 26th - 27th September 2019. ISBN No: 978-1-5386-1484-6.
- **S.Sarkar, S.Moitra ,S.Ghosh ,S. Bhattacharya ,S.Chakraborty ,S.Das ,S.Chowdhury, S.Dawn, S.Dutta, “A Solar backed up innovative Inverter”** , International Conference on Frontiers in Engineering, Management and Applied Science , Guru Nanak Institute of Technology, Kolkata, 26th - 27th September 2019. ISBN No: 978-1-5386-1484-6
- **Abhinanda Mitra, Asmita Chakraborty "A Review of PCA Based Face Recognition Methods", International Conference - Frontiers in Engineering, Management and Applied Science - 2019**, Guru Nanak Institute of Technology, Kolkata, 26th - 27th September 2019. ISBN No: 978-1-5386-1484-6.
- **Subham Chakraborty, Sayan Chowdhury, Soumadip Das , Sayansri Ghosh, Rimona Dutta, "Vehicle Pressure Limiting Bridge Model", International Conference - Frontiers in Engineering, Management and Applied Science - 2019**, ISBN No: 978-93-5391-015-0, Kolkata, 26th - 27th September 2019.
- **Sanchari Saha, Wriju Banerjee, Tathagata Bhattacharyya, Saswata Sundar Maity, “ Facial and Voice Recognition Based Security and Safety System in Car”**, IEEE 8th International Conference on Reliability, Infocom Technologies and Optimization (ICRITO'2020) (Trends and Future Directions), Technically Co-Sponsored by IEEE UP Section (India), Amity University, Noida, 4th - 5th June, 2020 accepted.
- **Sangeeta Rana, S. B. Amreen Saba, Samayita Chakraborty, “Bionic Eye-A Review”**, IEEE 8th International Conference on Reliability, Infocom Technologies and Optimization (ICRITO'2020) (Trends and Future Directions), Technically Co-Sponsored by IEEE UP Section (India), Amity University, Noida, 4th - 5th June, 2020 accepted.



**2018-19****DEPARTMENT: FT****National Seminar / Conference**

- **Reema Ghosh, Prankur Thakur (2018)**. “Insect as Food” Abstract published in Seminar proceedings of National Seminar on “Recent Innovations in Food and Nutritional Sciences” Organized by Department of Nutrition Mugberia Gangadhar Mahavidyalaya In collaboration with Internal Quality Assurance Cell, Mugberia Gangadhar Mahavidyalaya, held on 31<sup>st</sup> August, 2018.
- **Sramana Roy, Prithweejit Bhattacharyya (2019)**, “Preparation of Ber Jam”, Abstract published in Seminar proceedings of National Seminar on ”12<sup>th</sup> all India Peoples’ Technology Congress” organized by FOSET, held on 17<sup>th</sup> Feb, 2019.
- **Debadri Bhowmick, Amit Saha, Khushi Maheshwari, Akash Kusum Maiti (2019)**, “Banana Pseudo Stem – An Unexplored Possibility”, Abstract published in Seminar proceedings of National Seminar on “12<sup>th</sup> all India Peoples’ Technology Congress” organized by FOSET, held on 17<sup>th</sup> Feb, 2019.
- **Ankita Bishnu, Ayanwita Saha (2019)**, “Migration of Toxic Chemicals Compounds in Food Form Packaging Material” Abstract published in Seminar proceedings of National Seminar on “12<sup>th</sup> all India Peoples’ Technology Congress” organized by FOSET, held on 17<sup>th</sup> Feb, 2019.
- **Debalina Biswas, Sourakhita Sarkar (2019)**, “Production of Dietary Fiber from Fruit Waste” Abstract published in Seminar proceedings of National Seminar on “12<sup>th</sup> all India Peoples’ Technology Congress” organized by FOSET, held on 17<sup>th</sup> Feb, 2019.
- **Shreya Biswas, Lopamudra Banerjee (2019)**, “Vegetable Skin Powder – Utilization of Nutritional Active Vegetable Leftovers” Abstract published in Seminar proceedings of



National Seminar on “**12<sup>th</sup> all India Peoples’ Technology Congress**” organized by FOSET, held on 17<sup>th</sup> Feb, 2019.

### **International Journal**

- **Ms. Riya Dasgupta**, “Development and characterization of Biocolor (Brassica oleracea var. capitata f.rubra) fortified lime squash”, **The Pharma Innovation Journal**, ISSN (E): 2277- 7695 (2018), ISSN (P): 2349-8242, NAAS Rating 5.03.
- **Rupsa Roychowdhury** “A Relative Study on Utilisation of Fenugreek Seeds For Enhancement of the Antioxidant Activities in Various Baked Product”, **International Journal of Agriculture & Environmental Science**, ISSN 2394 – 2568 (2019), Impact Factor 1.47.
- **Anusree Modak**, Studies on Extraction of Polyphenols from Food Wastes and Its Utilization for Fortification of Polyphenols, , **International Journal Of Agricultural Engineering**, 11(1):216-219 (2018) ISSN (E): 0976-7223, ISSN (P): 0974-2662, NAAS Rating 4.43.
- **Debarati Bhattacharyya** ,”Analysis and study on the antioxidant of citrus fruits”, *The Pharma Innovation Journal*, 2019; 8(5): 397-398, ISSN (P): 2349-8242, NAAS Rating 5.03, Impact Factor 5.98, ICV:82.77. Peer Reviewed Journal, Refereed Journal, Indexed Journal.

### **DEPARTMENT: CSE**

### **National Seminar/Conference**

- Srotoswini Chanda, Sukanya Rakshit, Subham Banerjee, Moloy Dhar ,”**Implementation of Driverless Pod Using Voice Commands**” published in National conference, FOSET, NSHM KNOWLEDGE CAMPUS, 124 B.L. Saha Road, Kolkata – 700053,31ST MARCH, 2019.
- Jacky Kumar Shaw, Anuja Mukherjee, Dibas Das, Ipsita Saha”**A sustainable Solution towards E-waste Recycling**”,published on International Society of Waste Management,

Air and Water Consortium of Researchers in International Colaboration(ISWMAW), 20 th April, 2019,IEM Kolkata.

### International Seminar/Conference

- Sukanya Rakshit,"**Smart Mirror-a Secured Application of Artificial Intelligence Recognizing Human Face and Voice**",International Conference IEEE(IEMCON), October, 2018.
- Pritam Roy, Jui Saha, Nikkon Dutta,"**Microcontroller Based Automated Room Light & Fan controller**",International Conference(EDCT-2018) IEEE Explore,ISBN:978-1-5386-1484-6,doi: 10.1109/ EDCT.2018.8405097,September-2018
- Ipsita Saha,"**Implementing Extended Producer Responsibility into the ERP model**"pp. 1-5, IEEE Explore, ISBN:978-1-5386-1484-6, doi: 10.1109/ EDCT.2018.8405097, September-2018.
- Swastik Bhattacharya, Srotoswini Chanda, Moley Dhar," **Design of Driverless Pod Using Voice Commands : A Novel Approach**", published in ICEECC-2019, Pailan College of Management & Technology, April 26-27, 2019.

### International Journal

- Sandip Kumar Karmakar, Poulomi Kumar, Prothit Das, Rinki Dutta, Suman Roy Choudhury, "**A Microcontroller Operated LASER based Railway Gate and Signal Controlling System with Efficient Accident Prevention Strategy via IP-Webcam related Video-Surveillancing**" published on International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 6.887 Volume 7, Thompson Reuters indexed, UGC recognized, Issue IV, Apr 2019.
- Surajit Das, Rajib Bhowmik, Sanjay Dey, Shiladitya Saha,Sourish Mitra,Sayani Chandra,Pallabi Das,Ipsita Saha"**Bluetooth Controlled Farming Machine using Arduino**"published in International Jpurnal-IJRASET,Thomson Reuter Researcher ID: N-9681- 2016 ,Scientific Journal Impact Factor: 6.887,ISRA Journal Impact Factor: 4.895,ISSN-,2321-9653,pp-2262-2269 April,2019.
- Prithwish Roy, Puja Mandol, Rajaditya Pramanik,RupakBhowmik, Samarpita Bhowmick,Sayani Chandra, Sourish Mitra,Pallabi Das,"**Microcontroller based Fire Extinguisher with Bluetooth operated LPG Gas Leakage Detection and Prevention System**",published in International

Jpurnal-IJRASET,Thomson Reuter Researcher ID: N-9681- 2016 ,Scientific Journal Impact Factor: 6.887,ISRA Journal Impact Factor: 4.895,ISSN-,2321-9653,April,2019.

- Tuhina Basu, Sraboni Kundu, Nirupam Saha,Sourish Mitra,Sayani Chandra, Sangeeta Bhattacharya,Ipsita Saha,Bidyutmala Saha,"**A Wireless Framework for Emergency Health Care System**"published in International Jpurnal-IJRASET,Thomson Reuter Researcher ID: N-9681- 2016 ,Scientific Journal Impact Factor: 6.887, ISRA Journal Impact Factor: 4.895, ISSN-2321-9653,April,2019.
- Subhasis Thakur,Subhashis Thakur,Sourav Nandy,Sujoy Maikap,Sudeshna Ghosh,Souvik Sur,Moloy Dhar ,Sourish Mitra, Srabani Kundu"**Bluetooth Based Microcontroller Operated Baby Bed Security System with IP Webcam Video Monitoring**" published in International Jpurnal-IJRASET,Thomson Reuter Researcher ID: N-9681- 2016 ,Scientific Journal Impact Factor: 6.887,ISRA Journal Impact Factor: 4.895,ISSN-,2321-9653,April,2019.
- Anindita Ghosh, Debolina Mukherjee, Deepjyoti Das, Manisha Chakraborty,Sayani Chandra,Sourish Mitra,Nirupam Saha,Ipsita Saha,"**Colour based Product Organization Tool using Arduino**" published in International Jpurnal-IJRASET,Thomson Reuter Researcher ID: N-9681- 2016 ,Scientific Journal Impact Factor: 6.887,ISRA Journal Impact Factor: 4.895,ISSN-,2321-9653,April,2019

## DEPATMENT: IT

### International Conference

- Mitu Maity, Ayantika Sarbajna, Suparna Karmakar,"**Activity Oriented Petri Net Model Based Realization of Airport Apron Traffic Dynamics Modelling**"; International Conference on Electrical, Electronics,Computer Science & Civil Engineering (ICEECC-2019) April 26-27 , 2019 .
- Ipsita Bera, Indrani Dey, Tridib Chakraborty, "**Monitoring Suspicious Discussions on Social Media Case Study**"; International Conference on Electrical, Electronics, Computer Science & Civil Engineering (ICEECC-2019) April 26-27, 2019.
- PradiptaKarmakar, Mizan Chowdhury, Sayantan Jana, Sayak Dasgupta, Subham Paul, Rimpi Das and Saptaparna Das "**Matrix Method for Distinction between Text and Non-text images**" International Conference on Electrical, Electronics,Computer Science & Civil Engineering (ICEECC-2019), April 26-27.2019. Kolkata.

- IpsitaBera, Indrani Dey “**Market basket analysis-A formal approach**”, International Conference on Electrical, Electronics, Computer Science & Civil Engineering (ICEECC-2019), April 26-27.2019. Kolkata.

### International Journal

- PradiptaKarmakar, Mizan Chowdhury, SayakDasgupta, Saptaparna Das. “**Distinction between text and non-text using Ensemble classifier.**”International Journal of Computer Science and Engineering (ISSN: 2347-2693) Vol. 7, issue 5, May 2019.
- Pradipta Karmakar, Mizan Chowdhury, Sayak Dasgupta, and Tridib Chakraborty, “**Mean Average Accuracy for text and non-text images using SVM classifier.**” International Journal of Computer Science and Engineering (ISSN: 2347-2693) Vol. 7, issue 5, May 2019.
- Sudeep Ghosh, Mandira Banik, Tridib Chakraborty, Niraj PandeY, “**TSV based 3D-SIC Testing**” International Journal of Advance Research, Ideas and Innovations in Technology (IJARIIT) (ISSN:2454-132X) Page -1403-1406 Volume-5, Issue-3 ,June, 2019.
- Tridib Chakraborty, Trishita Ghosh, Sudeep Ghosh, Monishankar Nath, “**Hybrid routing protocol in Vehicular Ad-hoc Network,**” International Journal of Advance Research, Ideas and Innovations in Technology (IJARIIT) (ISSN:2454-132X) Page - 1385-1387 Volume-5, Issue-3, June, 2019.
- Sudeep Ghosh, Mandira Banik,Tridib Chakraborty, Rohan Rajak “International Journal of Scientific and Engineering Research (IJSER)” (ISSN-2229-5518) Volume 10, Issue 6, June 2019 .
- Indrani Dey, Tridib Chakraborty, Trishita Ghosh, Chowdhury Md Mizan “**Intelligent Chatbot Using Machine Learning**” Journal of Advance Research, Ideas and Innovations in Technology (IJARIIT) (ISSN:2454-132X) Page -1285-1288 Volume-5, Issue-3 ,June, 2019.

**DEPARTMENT: EE**

**National Seminar/Conference**

- **Sneha Sarkar, Sayoni Ghosh , Sayantan Saha**, “Development of a low cost IOT sensors suite framework for remote sensing applications”, 10th Academic Meet 2019 organised by FOSET on 31st March, 2019.
- **Sanjib Kumar Samanta, Roudri Samanta, Nilotpal Chakraborty, Neelakshi Ganguly and Aishik Panigrahi** , “A Computational approach to broad Cardiac disorders in the light of Ayurveda” presented at FOSET, NSHM campus, 10<sup>th</sup> academic meet 2019.

### **International Conference**

- **Sailesh Verma, Aniruddha Ghosh**, “Analysis of time delayed nonlinear equations using HF functions” 19<sup>th</sup>-21<sup>st</sup> July, 2018 presented at International Conference on Mathematical Modelling and Scientific computing(ICMMSC 2018at IIT Indore).
- **Tathagata Roy Chowdhury, Suman Kumar Ghosh, Aishik Panigrahi, Nilotpal Chakraborty and Anirudhha Ghosh**, “Unidentified input observer: comparative study through Block pulse function and Hybrid function” presented at CIPR-2019, IEST Shibpur on 19-20 Jan.
- **Nilotpal Chakraborty, Neelakshi Ganguly**,”Solving Stochastic Differential equations by Hybrid Functions” presented at MSAST 2018, Indismart Hotel, Saltlake on 21-23 Dec 2018.

**2017-18**

### **DEPARTMENT: FT**

#### **International Seminar / Conference**

- **Riya Dasgupta (2018)** “Application of optical sensors in determination of light absorbent of purple cabbage fortified lime squash”- Abstract published in International Conference on “Emerging Trends in Electronic Device and Computational Techniques” Organized by Guru Nanak Institute of Technology, Technical co-support by IEEE, held on 8<sup>th</sup> March, 2018.

#### **National Seminar / Conference**

- **Riya Dasgupta..Rupsa Roychowdhury** (2017). Banana Peel Muffin: A great way of waste utilization, Abstract published in Seminar proceedings of National Seminar on “A Dairy Snapshot-2017” Organized by IDA (EZ), Kolkata in association with Faculty of Dairy Technology, WBUAFS, Nadia, held on 5<sup>th</sup> August, 2017.
- **Pritika Prasad,(2017), Prostuti Chakravorty** Processing of Jackfruit seed flour, Abstract published in Seminar proceedings of National Seminar on “A Dairy Snapshot-2017” Organized by IDA (EZ), Kolkata in association with Faculty of Dairy Technology, WBUAFS, Nadia, held on 5<sup>th</sup> August, 2017.
- **Urmi Sarkar, Aurik Bairagi.** (2017). Qualitative analysis of Coffee Yoghurt, Abstract published in Seminar proceedings of National Seminar on “A Dairy Snapshot-2017” Organized by IDA (EZ), Kolkata in association with Faculty of Dairy Technology, WBUAFS, Nadia, held on 5<sup>th</sup> August, 2017.
- **Prostuti Chakravorty, Pritika Prasad.** (2017). Preparation and Characterization of Fortified Yogurt, Abstract published in Seminar proceedings of National Seminar on “A Dairy Snapshot-2017” Organized by IDA (EZ), Kolkata in association with Faculty of Dairy Technology, WBUAFS, Nadia, held on 5<sup>th</sup> August, 2017.
- **Rupsa Roychoudhury, Riya Dasgupta** (2017)“Utilization of Whey Protein to Enhance The Nutritional Quality of Biscuit”-Abstract published in Seminar proceedings of National Seminar on “A Dairy Snapshot-2017” Organized by IDA (EZ), Kolkata in association with Faculty of Dairy Technology, WBUAFS, Nadia, held on 5<sup>th</sup> August, 2017.
- **Suparna Mukherjee, Srijanee Biswas (2017)** “Anthocyanins: Sources, Application, antioxidant activity and its role as biocolor”- Abstract published in Seminar proceedings of National Seminar on “Clinical Research in Recent Pharmaceutical Sciences” Organized by Clinical Research Centre (CRC) Jadavpur University, Department of Pharmaceutical Technology in collaboration with Indian Pharmacy Graduates’ Association (Bengal Branch), held on 22<sup>nd</sup> November, 2017.
- **Akash Kusum Maity, Khushi Maheshwari (2017)** “Freeze dried Jamun Powder fortified lassi: Source of nutraceuticals”- Abstract published in Seminar proceedings of National Seminar on “Clinical Research in Recent Pharmaceutical Sciences” Organized by Clinical Research Centre (CRC) Jadavpur University, Department of Pharmaceutical Technology in collaboration with Indian Pharmacy Graduates’ Association (Bengal Branch), held on 22<sup>nd</sup> November, 2017.
- **Amit Saha, Debadri Bhowmick (2017)** “Quercetin Fortified Skimmed Milk”- Abstract published in Seminar proceedings of National Seminar on “Clinical Research in Recent Pharmaceutical Sciences” Organized by Clinical Research Centre (CRC) Jadavpur University, Department of Pharmaceutical Technology in collaboration with Indian Pharmacy Graduates’ Association (Bengal Branch), held on 22<sup>nd</sup> November, 2017.
- **Reema Ghosh, Prithweejit Bhattacharyya and Prankur Thakur (2017)**“Nutraceuticals- The pharmaceutical super foods”- Abstract published in Seminar proceedings of National Seminar on “Clinical Research in Recent Pharmaceutical Sciences” Organized by Clinical Research Centre (CRC) Jadavpur University, Department of Pharmaceutical Technology in collaboration with Indian Pharmacy Graduates’ Association (Bengal Branch), held on 22<sup>nd</sup> November, 2017.

- **Pritika Prasad and Soumyadeb Bhattacharyya (2017)**“Nutraceutical Analysis of Jackfruit Seeds”- Abstract published in Seminar proceedings of National Seminar on “Clinical Research in Recent Pharmaceutical Sciences” Organized by Clinical Research Centre (CRC) Jadavpur University, Department of Pharmaceutical Technology in collaboration with Indian Pharmacy Graduates’ Association (Bengal Branch), held on 22<sup>nd</sup> November, 2017.
- **Nilanjana dey & Ankita dutta (2018)** “Applications of industrial tea waste”- Abstract published in national Conference on “9th Inter university engineering, science & technology academic meet – 2018 & innovative model competition for a sustainable society” organized by FOSET. Held on 25<sup>th</sup> March, 2018.
- **Srijanee Biswas & Suparna Mukherjee (2018)** “Oxidative Stability of Vegetable Oils during Frying” Abstract published in national Conference on “9th Inter university engineering, science & technology academic meet – 2018 & innovative model competition for a sustainable society” organized by FOSET. Held on 25<sup>th</sup> March, 2018.
- **Suravi Chakraborty, Chandralekha Bhowmik (2018)** “Fenugreek seed: an oxidative stability enhancer of soybean Oil during frying”- Abstract published in national Conference on “9th Inter university engineering, science & technology academic meet – 2018 & innovative model competition for a sustainable society” organized by FOSET. Held on 25<sup>th</sup> March, 2018.
- **Neha Jaiswal & Aurik Bairagi (2018)** “A safer pathway to preserve fish-no more formaldehyde”- Abstract published in national Conference on “9th Inter university engineering, science & technology academic meet – 2018 & innovative model competition for a sustainable society” organized by FOSET. Held on 25<sup>th</sup> March, 2018.

### Interational Journal

- **Shramana Bhattacharyya, and Sreemoyee Moitra**, Potential Application of Milk and Milk Products as Carrier for Herbs and Spices: A Review and *International Journal of Engineering Research and Science & Technology*, 6(1): 114-125, (2017) ISSN 2319 – 5991, Impact Factor:1.09.
- **Arunima Mukherjee, Bornini Banerjee, Shubham Mukherjee**, Utilization of Banana Peel and Pulp as a Functional Ingredient in Product Development: A Review, Arunima Mukherjee, Bornini Banerjee, Shubham Mukherjee and, *International Journal of Engineering Research and Science & Technology*, 6(1):137-148, (2017), ISSN 2319 – 5991, Impact Factor:1.09.
- **Bornini Banerjee and Shubham Mukherjee**, Banana peel wastes: potential source of antioxidant in banana chips, *International Journal of Agricultural Science and Research (IJASR)*, 7(2):73-80, (2017) ISSN (Print): 2250-0057; ISSN (Online): 2321-0087; Impact Factor (JCC): 4.8136; NAAS Rating: 4.13; IBI Factor: 3.2
- **Urmi Sarkar and Shreosi Das**, Evaluation of Rheological, Physicochemical and Sensory Properties of low Calorie Coffee Yogurt *The Pharma Innovation Journal*, 6(7): 106-109 (2017), ISSN (E): 2277-7695, ISSN (P): 2349-8242, NAAS Rating 5.03.



- **Bornini Banerjee and Shubham Mukherjee**, Potential of raw banana peel as a source of polyphenol in muffins *The Pharma Innovation Journal*, 6(10): 40-43 (2017), ISSN (E): 2277- 7695, ISSN (P): 2349-8242, NAAS Rating 5.03.
- **Suravi Chakraborty**, Change in physicochemical properties of edible oil during frying: A review, *The Pharma Innovation Journal*, 6(10): 196-199 (2017), ISSN (E): 2277- 7695, ISSN (P): 2349-8242, NAAS Rating 5.03.
- **Riya Dasgupta, Abhijit Ghosh, Poulami Mitra, Tania Paul and Abhik Dutta**, Nutraceutical Potential Of Some Rare Fruits & Vegetables: A Review, *The Pharma Innovation Journal*, 6(10): 421-424 (2017), ISSN (E): 2277- 7695, ISSN (P): 2349-8242, NAAS Rating 5.03.
- **Chandralekha Bhowmik, Prostuti Chakravorty, Rupsa Roychowdhury, Shubhapriya Samanta and Manasi Roy**, Utilization of Various Seeds: A Review, *The Pharma Innovation Journal*, (Accepted), ISSN (E): 2277- 7695, ISSN (P): 2349-8242, NAAS Rating 5.03.
- **Anusree Modak**, Studies on Extraction of Polyphenols from Food Wastes and its Utilization for Fortification of Polyphenols: *International Journal of Agricultural Engineering*, ISSN (E): 0976-7223, ISSN (P): 0974-2662, NAAS Rating 4.43.

## DEPARTMENT: CSE

### International Journal

- Sayanjit Dey, Sukalpa Dey, **Sourish Mitra**, “An Innovative Micro-Controller Based Crop Recommender Using Soil Analysis and Weather Forecasting Technique” published on *Journal of Engineering Research and Application*, ISSN : 2248-9622, Vol. 8, Issue5 (Part -V) May 2018, pp 38-41, (UGC approved) Impact factor: 5.179, 29<sup>th</sup> May, 2018.

### International Seminar / Conference

- Susrut Banerjee, Moloy Dhar, Soumalya Sen, “A Novel Technique to detect the number of ground vehicles along with respective speed of each vehicle from a given video” Abstract published in International Conference on “Emerging Trends in Electronic Device and Computational Techniques” Organized by Guru Nanak Institute of Technology, Technical co-support by IEEE, held on 8<sup>th</sup> March, 2018.
- Pritam Roy, Jui Saha, Nikkon Dutta, **Sayani Chandra**, “Microcontroller based Automated Room Light and Fan Controller” Abstract published in International Conference on “Emerging Trends in Electronic Device and Computational Techniques” Organized by Guru Nanak Institute of Technology, Technical co-support by IEEE, held on 8<sup>th</sup> March, 2018.



- Sinthia Roy, Sukanya Rakshit ”**Realization of Arithmetic Circuits-An Approach Towards Ternary Computing**” Abstract published in International Conference on “Emerging Trends in Electronic Device and Computational Techniques” Organized by Guru Nanak Institute of Technology, Technical co-support by IEEE, held on 8<sup>th</sup> March, 2018.
- Soumalya Sen, Moloy Dhar, Susrut Banerjee,”**Implementation of Human Action Recognition using Image Parsing Techniques**” Abstract published in International Conference on “Emerging Trends in Electronic Device and Computational Techniques” Organized by Guru Nanak Institute of Technology, Technical co-support by IEEE, held on 8<sup>th</sup> March, 2018.
- Rituparna Saha, Reshmi Dhole, Sanjukta Das, Riya Ghosh, Ratnika Dutta, Ipsita Saha,”**An Implementation of Urban Mobility Framework to design future Smart City**”, Abstract published in International Conference on “Emerging Trends in Electronic Device and Computational Techniques” Organized by Guru Nanak Institute of Technology, Technical co-support by IEEE, held on 8<sup>th</sup> March, 2018.
- Yogesh Singh ,Ipsita Saha,”**Implementing Extended Producer Responsibility into the ERP model**”, Abstract published in International Conference on “Emerging Trends in Electronic Device and Computational Techniques” Organized by Guru Nanak Institute of Technology, Technical co-support by IEEE, held on 8<sup>th</sup> March, 2018.

### DEPARTMENT: ECE

#### International Seminar / Conference

- Abhishek Shaw, Arijeet Saha, Aparajita Bhagat, **Sayan Roy Chowdhury**, Design of wireless charger using piezo sensor, ASICN 2017, Dr. Sudhir Sur Engg. College, Kolkata, October 2017.
- Roma Singh, Roshan Jha, Palasri Dhar, **Dr. Sunipa Roy**, Two dimensional mobility in InP Single Quantum Well and InAs Single Quantum well, RSA2017, Netaji Subhash Engg. College, August 2017.
- Abhishek Shaw, Arijeet Saha, Aparajita Bhagat, **Sayan Roy Chowdhury**, Wireless power transmission using piezo sensor, RSA2017, Netaji Subhash Engg. College, August 2017.

### DEPARTMENT: ASHU

#### International Conference

- Arnab Dey, Bipul Nath, Biplab Mondal and Rajarshi Chakraborty in *Emerging Trends in Electronic Devices and Computational Techniques held in March 2018 at GNIT* “New Approach of a Conceptual Solar Thermal Steam Generator and its design optimization”.

**DEPARTMENT: EE****International Conference**

- **Surajit Biswas, Debasish Agasti, Rikta Majumder, Sukhdev Dolui**, “Micro-controller Based Over Current Relay Using Hall Effect Current Sensor”, International Conference on Engineering Trends in Electronic Devices and Computational Techniques, 9<sup>th</sup> March,2018
- **Debasish Agasti, Arpan Lahiri, Rikta Majumder**, “Controlling of mobile car robots using IR Sensor and a triple axis magnetometer”, International Conference on Engineering Trends in Electronic Devices and Computational Techniques, 9<sup>th</sup> March,2018.
- **Piu Mishra, Biswasdip Paul, Mr. Kalyan Kumar Chakraborty**, “A Smart Method of Road Power Generation”, International Conference on Engineering Trends in Electronic Devices and Computational Techniques, 9<sup>th</sup> March,2018.
- **Debasish Agasti, Arpan Lahiri, Bapita Roy**, “Optical Fibre Based Smart Illumination System”, International Conference on Engineering Trends in Electronic Devices and Computational Techniques, 9<sup>th</sup> March,2018.
- **Arnab Dey, Bipul Nath, Biplab Mondal, Rajarshi Chakraborty**,” New Approach of a Conceptual Solar Thermal Stream Generator and its Design & Optimization”, International Conference on Engineering Trends in Electronic Devices and Computational Techniques, 9<sup>th</sup> March,2018

**National Conference**

- **Suvam Pal, Sayandeep Nayak, Sourish Bhattacharya**,”Hybrid Inverter with Solar Battery Charging”, FOSET, March, 2018.
- **Sayan Saha, Subhadip Som, Sourav Kumar**,”True Ultra-Fast Electronic Solid-state Circuit Breaker”, FOSET, March, 2018.
- **Abhishek Mondal, Arijit Sinha, Ambar Ghosh, Biswajit Pal**,”Open Loop Speed Control of Chopper Fed DC Motor”, FOSET, March, 2018.
- **Himadri Shekhar Mondal, Subharup Chakraborty, Sujoy Bhattacharjee, Sumer Raj Verma**, ”Dual Axis Solar Tracker”, FOSET, March, 2018.
- **Piu Mishra, Biswasdip Paul**, “Design of a Voice Controlled JCB Pulley Used For Remote Sensing”, FOSET, March, 2018.

- **Somnath Bhattacharya, Saikat Bera, Subarna Das, Subrata kr. Paul**, “Induction Motor Protection System”, FOSET, March, 2018.
- **Ritam Roy, Soudip Mal, Sounak Ghosh, Rikta Majumdar**, “Intelligent Energy Saving System”, FOSET, March, 2018.
- **Vandana Rani, Vicky Paswan, Soyel Ghosh, Madhumita Chakroborty**, “Foot Step Power Generation using Piezoelectric Effect”, FOSET, March, 2018.
- **Sourav Sarkar, Rohan Pal, Shouvik Sarma Chowdhury, Rikta Majumdar**, “Smart Surveillance System Using Passive Infrared Sensor”, FOSET, March, 2018.
- **Purabi Majumder, Souvik Biswas, Susovan Dutta**, “GSM Based Fire Alarm System”, FOSET, March, 2018.

### **DEPARTMENT: IT**

#### **International Journal**

- **AshutoshDebnath, Ankita Paul, Chayan Chattopadhyay, Saheli Hazra , Sumit Kumar Singh** “Hybrid Routing Approach Depending on Different Message Types in VANET” International Journal of Scientific Research in Computer Science, Engineering and Information Technology, Vol-3, issue-5, pp 335-338 Technology.Indexing in Google Scholar, Citeseer, ICI. ISSN: 2456-3307.
- **AshutoshDebnath, ChayanChattopadhyay, Sumit Kumar Singh** “A Comparative Study of Different Emerging Routing Protocols in VANET” SinghInternational Journal of Emerging Technologies in Engineering Research (IJETER).Vol 6,issue-5, pp-129-134.Thomson & Reuters research ID-H-8878-2016.ISSN: 2456-3307.
- **Rohan Rajak** “A New Approach For TSV Based 3D-SIC Testing”International Journal of Emerging Technologies inEngineering Research (IJETER).Google scholar,Thompsons& Reuters Research ID: H-8878-2016.(Accepted).ISSN: 2319-3778.
- **Rohan Rajak** “Faulty TSVs Repairing using Redundant TSVs”International Journal for Research in Applied Science and Engineering Technology (IJRASET).Thomson Reuters Research ID: N-9681-2016Scientific Journal Impact Factor: 6.887ISRA Journal Impact.(Accepted).ISSN: 2321-9653.

### **DEPARTMENT: AEIE**

#### **International Conference**

- **Chanakya Fadikar, Indranil Acharya, Sanghamitra Layek, Santana Das**, “Design and Fabrication of Ultrasonic Pest Repellent”, 1st International Conference on Emerging Trends in Electronic Devices and Computational Techniques (EDCT-2018) organized by the Department of ECE, GNIT on 8-9th March, 2018.

- **Sayantana Roy, Sayantan Dey , Pabitra Chanda** , Santana Das, Sanghamitra Layek, “ATmega328 Based Solar Powered Automatic Irrigation System”, 1st International Conference on Emerging Trends in Electronic Devices and Computational Techniques (EDCT-2018) organized by the Department of ECE, GNIT on 8-9th March,2018.
- **Bilam Roy, Aditya Acharya, Tanmoy K. Roy**, Sudip Kuila, Jayita Datta, “A Smart Street-light Intensity Optimizer”, 1st International Conference on Emerging Trends in Electronic Devices and Computational Techniques (EDCT-2018) organized by the Department of ECE, GNIT on 8-9th March,2018.
- **Tanmoy Kumar Roy,Abhishek Sur**, Suparna Maity,“Radio Frequency Based HomeAppliances Monitoring &Controlling System”, 1st International Conference on Emerging Trends in Electronic Devices and Computational Techniques (EDCT-2018) organized by the Department of ECE, GNIT on 8-9th March,2018.
- **Arpan Kumar Lahiri , Krishna Saha, Debasis Agasti**, Bapita Roy,“Optical Fibre based smart illumination System”, 1st International Conference on Emerging Trends in Electronic Devices and Computational Techniques (EDCT-2018) organized by the Department of ECE, GNIT on 8-9th March,2018.
- **Piu Mishra, Biswadip Paul, Kalyan Kumar Chakroborty**, Bapita Roy,Santana Das,“ A Smart Method Of Road Power Generation For Safety Purpose”, 1st International Conference on Emerging Trends in Electronic Devices and Computational Techniques (EDCT-2018) organized by the Department of ECE, GNIT on 8-9th March,2018.

**2016-2017**

**DEPARTMENT: CSE**

**International Journal**

- Joy Dewanjee,” A web based nucleotide sequencing tool using BLAST algorithm” published in International Journal of Biotech Trends and Technology (IJBTT) – volume 18 Issue 1, ISSN:2249-0183, September - October 2016.
- Kunal Singh,Pritam Roy,Jui Saha,“Spontaneous Fan Speed Control System Using Arduino”,published in International Journal for Research in Applied Science and Engineering Technology (IJRASET),ISSN:2321-9653,pp-1560-1563,Volume 5 Issue IV, April 2017,Thomson Reuter Indexed [Thomson Reuter Researcher ID:N-9681-2016],[Google Scholar indexed],Impact Factor:5.969,IC Value:45.98,April 2017.

- **Trishna Arora**, “An Approach towards Arduino Based Automated Plant Irrigation System using Soil Moisture Sensor” published on International Journal of Novel Research and Development with ISSN : 2456-4184, Impact Factor:3.57, Volume 2 Issue 4, April-2017
- **Jasbir Singh**, “An Innovative Smart Health Care System by using Internet of Things” published on International Journal of Novel Research and Development with ISSN : 2456-4184, Impact Factor:3.57, Volume 2 Issue 4, April-2017

### National Seminar/Conference

- **Angika Roy, Anirban Roy, Indranil Choudhury, Aradhya Kundu, Kaustav Dutta**, “Implementing Smart City- An Approach Towards Big Data Analysis and Internet of Things”, paper accepted in 1<sup>st</sup> Regional Science and Technology Congress, 2016, NITTTR, Presidency Division West Bengal, 13<sup>th</sup> -14<sup>th</sup> November, 2016, NITTTR, Kolkata.
- **Kunal Singh**, “Implementation of Hand and Voice Biometrics Based on GMM” paper accepted in 1<sup>st</sup> Regional Science and Technology Congress, 2016, NITTTR, Presidency Division West Bengal, 13<sup>th</sup> -14<sup>th</sup> November, 2016, NITTTR, Kolkata

### DEPARTMENT: FT

#### National Seminar / Conference

- **Ushnil Dutta, Sanjana Chakraborti**, “Development of Value Enriched Carrot Fortified Chips for Better Security of Nutrition” UGC-Sponsored National Level Seminar on Food Security And Sustainable Nutrition In India: The Present Scenario” Organized by Department of Food and Nutrition, Acharya Prafulla Chandra College in collaboration with Department of Biochemistry & Nutrition, All India Institute of Hygiene and Public Health at Kolkata, West Bengal held on 15-16<sup>th</sup> Sept., 2016.
- **Soumyadeep Pal, Anusree Modak**, “Food Waste: Mine of Polyphenols” UGC-Sponsored National Level Seminar on Food Security And Sustainable Nutrition In India: The Present Scenario” Organized by Department of Food and Nutrition, Acharya Prafulla Chandra College in collaboration with Department of Biochemistry & Nutrition, All India Institute of Hygiene and Public Health at Kolkata, West Bengal held on 15-16<sup>th</sup> Sept., 2016.
- **Mainak Ghosh and Manasi Roy**. “Preservation Techniques & Product Development of Locally Available Mushrooms” UGC-Sponsored National Level Seminar on Food Security And Sustainable Nutrition In India: The Present Scenario” Organized by Department of Food and Nutrition, Acharya Prafulla Chandra College in collaboration with Department of Biochemistry & Nutrition, All India Institute of Hygiene and Public Health at Kolkata, West Bengal held on 15-16<sup>th</sup> Sept., 2016.
- **Neelanjana Misra, Gargi Sharma**, “Herbal Bread: A Loaf For Good Health” UGC-Sponsored National Level Seminar on Food Security And Sustainable Nutrition In India: The Present Scenario” Organized by Department of Food and Nutrition, Acharya Prafulla Chandra College in

collaboration with Department of Biochemistry & Nutrition, All India Institute of Hygiene and Public Health at Kolkata, West Bengal held on 15-16<sup>th</sup> Sept.,2016.

- **Arunima Mukherjee, Bornini Banerjee, Shubham Mukherjee.** “Utilization of Green Banana Peel in Enriching the Antioxidant Potential in Chips” UGC-Sponsored National Level Seminar on Food Security And Sustainable Nutrition In India: The Present Scenario” Organized by Department of Food and Nutrition, Acharya Prafulla Chandra College in collaboration with Department of Biochemistry & Nutrition, All India Institute of Hygiene and Public Health at Kolkata, West Bengal held on 15-16<sup>th</sup> Sept.,2016..
- **Shramana Bhattacharya, Sreemoyee Moitra, Sayani Adhikary** “Development of Probiotic Lassi Supplemented with Aloe Barbadensis Miller Juice and Effect” UGC-Sponsored National Level Seminar on Food Security And Sustainable Nutrition In India: The Present Scenario” Organized by Department of Food and Nutrition, Acharya Prafulla Chandra College in collaboration with Department of Biochemistry & Nutrition, All India Institute of Hygiene and Public Health at Kolkata, West Bengal .held on 15-16<sup>th</sup> Sept.,2016.
- **Sruti Mandal, Saikat Gorai,** Development and Evaluation of Quality Characteristics of Nutritious Osmodried Fruits for enhanced Nutritional Security” UGC-Sponsored National Level Seminar on Food Security And Sustainable Nutrition In India: The Present Scenario” Organized by Department of Food and Nutrition, Acharya Prafulla Chandra College in collaboration with Department of Biochemistry & Nutrition, All India Institute of Hygiene and Public Health at Kolkata, West Bengal . held on 15-16<sup>th</sup> Sept.,2016.
- **Neha Jaiswal and Shalini Rastogi,** “Genetically Modified Foods: Safety”, Risk, and Public Concerns,8<sup>th</sup> All India Inter Engineering College Academic Meet-2017& Innovative Model Competition for a Sustainable Society, organized by FOSET, held on 19<sup>th</sup> March, 2017.
- **Prostuti Chakravorty and Debarati Bhattacharyya,** “Studies on Extraction of Protein from De-oiled Meals”, 8<sup>th</sup> All India Inter Engineering College Academic Meet-2017& Innovative Model Competition for a Sustainable Society, organized by FOSET, held on 19<sup>th</sup> March, 2017.
- **Anusree Modak,** “Studies on Extraction of Polyphenol from Cucumber and Potato Peels”, 8<sup>th</sup> All India Inter Engineering College Academic Meet-2017& Innovative Model Competition for a Sustainable Society, organized by FOSET, held on 19<sup>th</sup> March, 2017.
- **Paromita Roychowdhury and Aayushi Bhomia,** “Study of Utilization of Ultrasound in Milk and Milk Product”, 8<sup>th</sup> All India Inter Engineering College Academic Meet-2017& Innovative Model Competition for a Sustainable Society, organized by FOSET, held on 19<sup>th</sup> March, 2017.
- **Bigroha Hajra and Soumyadeb Bhattacharyya,** “Modern Trends on Utilization of Food Technology”, 8<sup>th</sup> All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19<sup>th</sup> March, 2017
- **Sreyasi Deb,** “An Enzymatic Approach For Debittering of Citrous Fruit Juice” 8<sup>th</sup> All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable

Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19<sup>th</sup> March, 2017.

- **Mahua Sarkar and Saurav Bhattacharjee**, “New Horizons in Agricultural Biotechnology” 8<sup>th</sup> All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society organized by FOSET in association with Gurunanak Institute of Technology, held on 19<sup>th</sup> March, 2017.
- **Ansu Chaudhary and Pinki Karmakar**, “Review: Genetically Modified Foods: Blessing or Curse” 8<sup>th</sup> All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19<sup>th</sup> March, 2017.
- **Manasi Roy and Mainak Ghosh**, “Development of Mushroom Product: A Meat Substitute” 8<sup>th</sup> All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19<sup>th</sup> March, 2017.
- **Gargi Sharma**, “Development and quality analysis of pudina fortified herbal custard”, 8<sup>th</sup> All India Inter Engineering College Academic Meet - 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19<sup>th</sup> March, 2017.
- **Sreemoyee Moitra and Sayani Adhikary**, “Effect of incorporating Aloe-vera in Sandesh”, 8<sup>th</sup> All India Inter Engineering College Academic Meet - 2017 & Innovative Model Competition for a Sustainable Society organized by FOSET in association with Gurunanak Institute of Technology, held on 19<sup>th</sup> March, 2017.
- **Suparna Mukherjee and Srijanee Biswas**, “Rheological analysis of apple yoghurt”, 8<sup>th</sup> All India Inter Engineering College Academic Meet - 2017 & Innovative Model Competition for a Sustainable Society organized by FOSET in association with Gurunanak Institute of Technology, held on 19<sup>th</sup> March, 2017.
- **Urmi Sarkar and Shreosi Das**, “Rheological analysis of coffee flavored Yoghurt”, 8<sup>th</sup> All India Inter Engineering College Academic Meet - 2017 & Innovative Model Competition for a Sustainable Society organized by FOSET in association with Gurunanak Institute of Technology, held on 19<sup>th</sup> March, 2017.
- **Abhishek Kundu, Poulomi Mukherjee**, “Thermosonication a Suitable Approach of Alternative Processing”, 8<sup>th</sup> All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19<sup>th</sup> March, 2017.
- **Prajesh Nandy, Subhapiya Samanta**, “Microalgae as a Source of Natural Antioxidant”, 8<sup>th</sup> All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19<sup>th</sup> March, 2017.



- **Rupsha Roychowdhury, Madhulika Dutta**, “Algae is a source of Biofuel”, 8<sup>th</sup> All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19<sup>th</sup> March, 2017.
- **Sanjana Chakraborty, Ushnil Dutta**, “Development and Analysis of a Nutrient Enriched Tropical Fruit Concoction”, 8<sup>th</sup> All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19<sup>th</sup> March, 2017.

### National Journal

- **Priyanka Dutta**, “Development and characterization of curd fortified by pineapple juice” Indian journal of Dairy Science, Vol.69, Issue 5, Sep/Oct( 2016), pp- 524-528, ISSN:0019-5146 (NAAS Rating: 4.19)
- **Sampurna Guhathakurta**, "Studies on Utilization of Milk for Extraction of Polyphenols from Date Palm (*Phoenix dactylifera* L.). Indian Journal Dairy Science(Accepted), Volume 70, No. 1, 2017 (January-February 2017) (Accepted), ISSN:0019-5146, NAAS Rating: 4.19
- **Smita Singha Roy**, Effect of Heat Treatment on the Rheological Properties of Pulse Based Cabbage Soup, *J. Interacademia*, 20(4) 515-519 (2016), ISSN: 0971-9016, NAAS Rating: 3.96
- **Shubham Mukherjee and Bornini Banerjee**, Development and Quality Analysis of Milk Based Eggless Pudding, *J. Interacademia*, 20(4) 520-525 (2016), ISSN: 0971-9016, NAAS Rating: 3.96
- **Kailash Barman**, Studies on the process development for the production of locally available pineapple products, *Journal of Interacademia*, 20(4), 508-514, (2016). ISSN: 0971-9016. (NAAS Rating: 3.96).
- **Bornini Banerjee, Soumyadeep Pal, Subham Mukherjee, Lara Maity, Soumyadeb Bhattacharyya, Bigrabo Hajra and Subhopriya Samanta**, Food safety challenges towards safe, healthy and nutritious street foods, *Journal of Interacademia*, 20(4), 499-507, (2016) ISSN: 0971-9016. (NAAS Rating: 3.96).
- **Prastuti Chakravorty, Riya Dasgupta, Suravi Chakravorty, Rupsa Roychowdhury and Debjit Ghosh**, Sweet Potato: Processing and Marketing: A Review, *Journal of Interacademia*, 20(4), 562-568, (2016) ISSN: 0971-9016. (NAAS Rating: 3.96).
- **Sampurna Guhathakurta** (2017). Studies on Utilization of Milk for Extraction of Polyphenols from Date Palm (*Phoenix dactylifera* L.). *Indian Journal of Dairy Science*, **70**(1):116-118, ISSN:0019-5146, (NAAS Rating: 5.26)



### International Seminar / Conference

- **Anusree Modak and Neelanjana Misra** (2016) Herbs Fortified Whey Drink, **International Conference on Emerging Technologies in Agricultural and Food Engineering (ETAE 2016)**, organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.
- **Smita Singha Roy and Soumyadeep Pal** (2016). Effect of Heat Treatment on the Functional Characteristics of Pulse based Tomato Soup, **International Conference on Emerging Technologies in Agricultural and Food Engineering (ETAE 2016)**, organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.
- **Soumyadeep Pal and Gargi Sharma** (2016). Preparation and Characterization of Salt Extracted Sesame (*Sesamum indicum* L.) Protein Isolate, **International Conference on Emerging Technologies in Agricultural and Food Engineering (ETAE 2016)**, organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.
- **Bornini Banerjee, Subham Mukherjee and Arunima Mukherjee** (2016). Utilization of Banana Peel as a Functional Ingredient in Chips Preparation, **International Conference on Emerging Technologies in Agricultural and Food Engineering (ETAE 2016)**, organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.
- **Sayani Adhikary and Sanchita Mukherjee** (2016). Quality Analysis of Raw and Packaged Milk of Kolkata, **International Conference on Emerging Technologies in Agricultural and Food Engineering (ETAE 2016)**, organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.
- **Saikat Gorai and Sruti Mondal** , Development and Utilization of Carrot Powder in Value Added Biscuit Production, **International Conference on Emerging Technologies in Agricultural and Food Engineering (ETAE 2016)**, organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.
- **Ushni Dutta and Sanjana Chakraborty**, Effect of Drying of Cucumber at Different Temperatures on Drying Characteristics and Physicochemical Properties, **International Conference on Emerging Technologies in Agricultural and Food Engineering (ETAE 2016)**, organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.
- **Subhojit Singha , Chandrima Sarkar and Sukriti Dutta**, Potentiality of Polymers in Food Packaging, **International Conference on Emerging Technologies in Agricultural and Food Engineering (ETAE 2016)**, organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.
- **Chandrani Dutta**, “Comprehensive Study on the Antioxidants and Proximate Analysis of Fruits Vegetables”, **International Conference on Emerging Technologies in Agricultural and Food Engineering (ETAE 2016)**, organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

- **Sukanya Kar, Dipsikha Mukherjee and Sreemoyee Moitra**, “Development of Value Added Biscuits Fortified by Whey Protein”, **International Conference on Emerging Technologies in Agricultural and Food Engineering (ETAE 2016)**, organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.
- **Manasi Roy and Mainak Ghosh**, “The Essence of Life – Aloe vera( Preparation of Pickle from Aloe vera)” **International Conference on Emerging Technologies in Agricultural and Food Engineering (ETAE 2016)**, organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.
- **Bigroha Hajra**,“Analysis and Study on the Anti-oxidant of Citrus Fruits” , **International Seminar on Contemporary Developments in Nutritional Research** Organised by IQAC and Department of Food & Nutrition, Barrackpore Rastraguru Surendranath College, held on 5<sup>th</sup> and 6<sup>th</sup> January 2017.

#### Interational Journal

- **Shramana Bhattacharyya and Sreemoyee Moitra** (2017).Potential Application of Milk and Milk Products as Carrier for Herbs and Spices: A Review, *International Journal of Engineering Research and Science & Technology*,6(1): 114-125, ISSN 2319 – 5991, **Impact Factor**:1.09.
- **Arunima Mukherjee, Bornini Banerjee and Subham Mukherjee** (2017). Utilization of Banana Peel and Pulp as a Functional Ingredient in Product Development: A Review, *International Journal of Engineering Research and Science & Technology*,6(1):1-12, ISSN 2319 – 5991, **Impact Factor**:1.09.
- **Gargi Sharma and Neelanjana Misra** (2017). Herbs fortified food - Key of Polyphenols: a Review, *International Journal of Engineering Research and Science & Technology*, 6(1): 18-29, ISSN 2319 – 5991, **Impact Factor**:1.09.
- Riya Dasgupta and Debjit Ghosh (2017). Climatic conditions required and factors affecting the production of sweet potato,*International Journal of Agricultural Science and Research*, 7(1): 459-464, ISSN-2250-0057 (NAAS Rating: 4.13), **Impact Factor**: 4.8136.
- **Bornini Banerjee and Shubham Mukherjee** (2017).Banana peel wastes: potential source of antioxidant in banana chips, *International Journal of Agricultural Science and Research (IJASR)*, 7(2):73-80, (2017) ISSN (Print): 2250-0057; ISSN (Online): 2321-0087; **Impact Factor (JCC)**: 4.8136; (NAAS Rating: 4.13); IBI Factor: 3.2.

**DEPARTMENT: AEIE**

**International Conference**

- Mr. Souvik Das, Ms. Reparana Saha, **Mrs. Suparna Maity**, “PLC based Modern Monoculture Farming System”, 1st International Conference on “VLSI, Devices, Circuits and Systems (VLSI DCS 2016), jointly organized by IEEE MSIT Student Branch, IEEE MSIT EDS Student Branch Chapter, IEEE EDS Kolkata Chapter and IEEE SSCS Kolkata Chapter, in association with the Department of ECE, MSIT and technically cosponsored by IEEE Kolkata Section on 19-20<sup>th</sup> October, 2016.
- Shovan Kar, **Sanghamitra Layek, Santana Das**, “Microcontroller based dual axis solar tracking system”, 1st International Conference on “VLSI, Devices, Circuits and Systems (VLSI DCS 2016), jointly organized by IEEE MSIT Student Branch, IEEE MSIT EDS Student Branch Chapter, IEEE EDS Kolkata Chapter and IEEE SSCS Kolkata Chapter, in association with the Department of ECE, MSIT and technically cosponsored by IEEE Kolkata Section on 19-20<sup>th</sup> October, 2016.

### International Journal

- Mr. Souvik Das, Ms. Reparana Saha, "PLC based Modern Monoculture Farming System", Journal of Advances in Industrial Engineering and Management has been communicated, ISSN:2222-7059(Print); EISSN:2222-7067, 2016.
- Shovan Kar, "Microcontroller based dual axis solar tracking system", Journal of Advances in Industrial Engineering and Management has been communicated, ISSN:2222-7059(Print); EISSN:2222-7067, 2016

### National Conference

- Sudeshna Banerjee, Sintu Kumar Barnwal, **Jayita Datta and Uma Ghosh\***, "An Automated Method of temperature And Humidity Measurement for Calibration Laboratory", in 8th ALL INDIA INTER ENGINEERING COLLEGE ACADEMIC MEET – 2017, organized by FOSET in collaboration with Guru nanak Institute of Technology on 19th MARCH, 2017
- Arpan Kumar Lahiri, Debasis Awasti, “Air Swipe Controlled home-made speaker”, in 8th ALL INDIA INTER ENGINEERING COLLEGE ACADEMIC MEET – 2017, organized by FOSET in collaboration with Guru nanak Institute of Technology on 19th MARCH, 2017
- Anirban Chakraborty, **Bapita Roy**, " Colour Sensor Based Ambient Light with Manual Control”, in 8th ALL INDIA INTER ENGINEERING COLLEGE ACADEMIC MEET – 2017, organized by FOSET in collaboration with Guru nanak Institute of Technology on 19th MARCH, 2017

### DEPARTMENT: IT

### International Journal

- Sumit Kumar Singh; Congestion Control in VANET with Time Synchronization Approach and by Controlling Number of Messages. International Journal of Emerging Technologies in Engineering Research (IJETER). Volume 4, Issue 7, Page 13-16, impact factor 4.225, July 2016.

**DEPARTMENT: EE****International Journal**

- **Soumik Roy**, “Designing a Dual-Axis Solar Tracking System for increasing efficiency of a Solar Panel”, International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering(IJAREEIE), Impact Factor: 5.621, (An ISO 3297: 2007 Certified Organization) Vol. 5, Issue 12, December 2016.
- **Krishnendu Jana, Foyjuddin Khan and Susovan Dutta**,”Cost Effective Multi-Purpose Solar Charger Unit for Rural Development”,published in International Journal of Computer Sciences and Engineering, August 2016

**DEPARTMENT: ECE****International Conference**

- Saikat Sarkar, Satyaki Nan, Priyankar Ghosh, Moinak Adhya, Sandip Kumar Singh, Avali Ghosh, "**Bidirectional Visitor Counter with security system and Automated Room Light Controller**", 8th All India Inter Engineering College Academic Meet - 2017 And Innovative Model Competition For A Sustainable Society, 19th MARCH, 2017.
- A.Bhaumik. A.Das, A. Yadav, A.Shaw, A.K. Misra, Sunipa Roy, "**Non conventional energy sources using piezoelectric crystal for wearable electronics**", IEEE Sponsored International conference IEMENTECH, Science City, Kolkata 28-29 April, 2017.
- P.Chowdhury, S. Mahato, S. Das, Sunipa Roy, "**TEM analysis of microheater using SiO<sub>2</sub>/Si<sub>3</sub>N<sub>4</sub> composite membrane for long term gas sensor applications**", IEEE Sponsored International conference IEMENTECH, Science City, Kolkata. 28-29 April, 2017

<b>2015-2016</b>
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**DEPARTMENT: CSE****International Journal**

- **Anirban Roy**: ”**Microcontroller Based Universal Asynchronous Receiver Transmitter (UART) Communication System**” published in International Journal of Engineering Development & Research, ISSN :2321-9939, Volume 4, Issue 2, Impact factor: 3.97, April 2016

- **Angika Roy:** "Internet of Things (IOT) based Smart Health Care System" published in International Journal of Engineering Development & Research ISSN:2321-9939, Volume 4, Issue 2, Impact factor: 3.97, April 2016
- **Swatilekha Saha:** "Discrete Cosine Transform based Steganographic Approach Using JPEG Quantization Table" published in International Journal of Engineering Development & Research, ISSN :2321-9939, Volume 4, Issue 2, Impact factor: 3.97, April 2016
- **Swatilekha Saha:** "A Novel Approach: Architecture Based Various Designing Issues on Wireless Sensor Network Environment", International Journal of Engineering Development & Research ISSN:2321-9939, Volume 4, Issue 2, Impact factor: 3.97, April 2016
- **Reyad Hossain:** "Implementation of Hand biometrics on mobile devices" published in Gurukul International Multidisciplinary Research Journal, ISSN:2394-8426, Volume 6, Issue 2, Volume , Impact factor: 2.254, March 2016
- **Supriya Das** "Encryption Key Generation by Using Biometric approach in Secure Data Packet Transfer" published in International Journal of Engineering Development & Research, April 2016

## **DEPARTMENT: IT**

### **International Seminar / Conference**

- **Prabhakar Kumar, Hardip Singh Kataria** "Congestion control approach by reducing the number of messages in VANET" 4<sup>th</sup> International Conference on Reliability, Infocom technologies and Optimization (ICRITO 2015) September 2-4, 2015.
- **Pramit Karmakar,** "Prebond TSV Based 3D-SIC Testing", International Conference on Current Research in Engineering Science and Technology (ICCREST-2016). 4<sup>th</sup> to 6<sup>th</sup> MAY, 2016
- **Sreya Bhattacharya,** "Next Generation Sequencing Technology", International Conference on Recent Trends in Engineering and Technology (ICRTET-2016) May 15<sup>th</sup>, 2016

### **International Journal**

- **Md. Shahriq Khan,** "Congestion Control in VANET Using Threshold Based Distance Metric with Time Synchronization Approach, International Journal of Innovations in Engineering and Technology (IJJET) ISSN: 2319 – 1058

## **DEPARTMENT: FT**

### **National Seminar / Conference**

- **Paushali Sinha, Mandira Bhowmick;** "Preparation of Ice Lolly using Beet color", Beverage & Food World (National)", July, 2015

- **Sanjana Chakraborti,**”Advancement in Packaging of Milk and Milk Products.”National Seminar on a theme “Dairying: Innovative Technology Initiatives in Production and Processing”, organized by Indian Dairy Association (EZ), held on at West Bengal Veterinary Council Bhawan Auditorium, Belgachia, Kolkata, W.B.,12<sup>th</sup> March, 2016
- **Sudipta Sain, Dipsikha Mukherjee,**”Food Packaging: Innovation for the future. “Seminar on 7<sup>th</sup> All India Inter College Academic Meet-2016 & Innovative model competition for a sustainable society, organized by FOSET, at Kolkata, W.B,13<sup>th</sup> March, 2016.
- **Sreemoyee Moitro,Sukanya Kar,**” Role of Functional Ingredients in Functional Foods”Seminar on 7<sup>th</sup> All India Inter College Academic Meet-2016 & Innovative model competition for a sustainable society, organized by FOSET, at Kolkata, W.B.13<sup>th</sup> March, 2016.
- **Ankita Kundu, Bhaswati De,**”Study on effect of drying on banana chips”Seminar on 7<sup>th</sup> All India Inter College Academic Meet-2016 & Innovative model competition for a sustainable society, organized by FOSET, at Kolkata, W.B.13<sup>th</sup> March, 2016
- **Anusree Modak, Nilanjana Mishra,**”Fortification of Sesame Seed Meal in Cookies Formulation”,Seminar on 7<sup>th</sup> All India Inter College Academic Meet-2016 &Innovative model competition for a sustainable society, organized by FOSET, at Kolkata, W.B.13<sup>th</sup> March, 2016.
- **Sreyasi Deb,**”Energy Drinks”Seminar on 7<sup>th</sup> All India Inter College Academic Meet-2016 & Innovative model competition for a sustainable society, organized by FOSET, at Kolkata, W.B.13<sup>th</sup> March, 2016
- **Chendrima Basu, Priyanka Dasgupta,**”Characterization of Aloe vera and Development of Different Aloe vera Products”Seminar on 7<sup>th</sup> All India Inter College Academic Meet-2016 & Innovative model competition for a sustainable society, organized by FOSET, at Kolkata, W.B.13<sup>th</sup> March, 2016

#### National Journal

- **Mandal P,Jha P :** “Development and Evaluation of Quality of Carrot Fortified Chips” Beverage & Food World Journal (National ) November 2015,Vol.42,No.11,pp 46-48,ISSN: 0970-6154.
- **Dipsri** “A Comparative Study on Drying Kinetics of Tray Dried Cucumber Under Different Temperature and Their Physicochemical Properties” Beverage & Food World Journal (National ) December 2015, Vol.42,No.12,pp 46-50,ISSN:0970-6154.

#### International Seminar / Conference

- **Manasi Roy , Chandrani Dutta,**”Utilization of By-Products from Egg and Egg Product Industries International conference on ‘Recent Advances in Food Processing and Biotechnology’,

organized by Centre of Food Science and Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, India 5<sup>th</sup> and 6<sup>th</sup> April 2016, IJCN: ISSN:0971-9210.

- **Sanjana Chakraborti, Ushnil Dutta,**”Sustainable & Edible Packaging-When food gets Wrapped International conference on ‘Recent Advances in Food Processing and Biotechnology’, organized by Centre of Food Science and Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, India 5<sup>th</sup> and 6<sup>th</sup> April 2016, IJCN: ISSN:0971-9210.
- **Smita Singha Roy, Lara Maity,**”Effect of Processing on the Functional Properties of Pulse Based Cabbage Soup International conference on ‘Recent Advances in Food Processing and Biotechnology’, organized by Centre of Food Science and Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, India 5<sup>th</sup> and 6<sup>th</sup> April 2016, IJCN: ISSN:0971-9210.
- **Lara Maity, Smita Singha Roy,**” Effect of Fortification of Raisin and Dates in Milk” International conference on ‘Recent Advances in Food Processing and Biotechnology’, organized by Centre of Food Science and Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, India 5<sup>th</sup> and 6<sup>th</sup> April 2016, IJCN: ISSN:0971-9210.
- **Subham Mukherjee, Bornini Banerjee,**”Fortified Vegetable Pudding: Technology and Quality Control ”International conference on ‘Recent Advances in Food Processing and Biotechnology’, organized by Centre of Food Science and Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, India 5<sup>th</sup> and 6<sup>th</sup> April 2016, IJCN: ISSN:0971-9210.
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## **DEPARTMENT: ECE**

### **International Seminar / Conference**

- **SomSubhraMondal**, M.Tech 2015 Passout 'Generation of Novel Encrypted Code using Cryptography for Multiple Level Data Security for Electronic Patient Record'(pp-916-921, indexed in IEEE Explore)- in IEEE International Conference on Bioinformatics and Biomedicine-BIBM 2015, at Washington DC, USA, 9-12 NOV 2015

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- **Shatadru Biswas, Dibyendu Das**, "The Effect of Defective Ground Plane on a Wide Band Dual Frequency Circular Patch Antenna" International Journal of Advanced Research in Computer Science and Software Engineering, April 2016, IF-2.5
- **Swatilekha Sarkar, Gargi Majumdar, Shubham kumar Maurya, Sangeeta Hazra**, "Design and Analysis of a Wideband CPW fed Circular Patch Antenna for Wireless Communication Applications", International Journal of Innovative Research in Computer and Communication Engineering, Vol. 4, Issue 5, May 2016, IF-5.611.
- **SHATADRU BISWAS**, "A Comparative Study Based On Design Parameter Variance in A Circular Patch Antenna Enclosed By A Rectangular ring For Multiband Operation in Wireless And Satellite Communication Applications International Journal of Engineering Science and computing April 2016, IF-5.618
- **PoulomiNath**, "Multifrequency Microstrip Antenna for Mobile Communication" International Journal of Engineering Science and Computing, April 2016, IF-5.618
- **Ananya Ganguly**, "Development of AlGaAs /GaAs/AlGaAs Step Quantum well to produce Tunable Photo Detector and Electro-Absorption Modulator for noise reduction" International Research Journal of Engineering and Technology, April 2016, IF-4.45



**DEPARTMENT: CA**

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- **Sayantana Chanda, Arunabha Nath, Mouli Dutta, Krischiana Koley**, “ Use of Some Popular Android Applications in Post Disaster Management Scenario”, published on International Journal of Computer Science and Information Technology, Volume 6, Issue 6, pp: 5274-5278, December 2015.
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