

## JIS College of Engineering (An Autonomous Institute)

### Financial Assistance to faculty and Staff in pursuing R&D activities

**Area: FSD- Financial support to research publications in peer reviewed journal and reimbursement of PhD enrollment, expenses related to thesis submission**

**Financial support to research publications in peer reviewed journals:**

SL. NO.	NAME	DEPT.	Name OF The Journal	Title Of The Paper/Thesis
1.	REETAM MONDAL	ELECTRICAL ENGINEERING	IFSA SENSORS & TRANSDUCER JOURNAL	MICROCONTROLLER BASED TEMPARATURE MONITORING AND CLOSED LOOP CONTROL TO STUDY THE REACTION OF CONTROLLED VARRIABLE TO LOAD CHANGES
2	SANDIP BAG	BIOMEDICAL ENGINEERING	INTERNATIONAL JOURNAL OF PHARMA AND BIO SCIENCE	TISSUE ATTACHMENT ON HYDROXYPATITE COATED POLYMER-CERAMIC COMPOSITE IMPLANT
3.	SNEHASISH PAL	ELECTRICAL ENGINEERING	INDIAN JOURNAL OF SCIENCE AND TECHNOLOGY	DIGITAL SIMULATION TWO LEVEL INVERTER BASED ON 'SVPWM'
4.	SNEHASISH PAL	ELECTRICAL ENGINEERING	INDIAN JOURNAL OF SCIENTIFIC RESERCH	DIGITAL SIMULATION OF A STATCOM BASED A TWELVE PULSE VSC FOR VOLTAGE CONTROL APPLICATION IN POWER SYSTEM
5.	RIMI GHOSH	ELECTRONICS AND INSTRUMENTATION ENGINEERING	INTERNATIONAL JOURNAL OF LATEST TRENDS IN ENGINEERING AND TECHNOLOGY	DUAL BROAD BAND FREQUENCY SELECTIVE STRUCTURES WITH MULTIRESONANT FREQUENCUES
6.	SOUVIK DAS	BIOMEDICAL ENGINEERING	INTERNATIONAL JOURNAL OF ENGINEERING TRENDS AND TECHNOLOGY	THE DEVELOPMENT OF A MICROCONTROLLER BASED LOW COST HEART RATE COUNTER FOR HEALTH CARE SYSTEMS
7.	SNEHASISH PAL	ELECTRICAL ENGINEERING	INDIAN JOURNAL OF SCIENCE AND TECHNOLOGY	DIGITAL SIMULATION OF FORTY EIGHT PULSE STATCOM FOR REDUCTION OF VOLTAGE INSTABILITY AND IMPROVEMENT OF POWER QUALITY
8.	SNEHASISH PAL	ELECTRICAL ENGINEERING	INDIAN JOURNAL OF ENGINEERING RESEARCH AND INDUSTRIAL APPLICATION	DIGITAL SIMULATION OF EIGHTY FOUR PULSE STATCOM FOR IMPROVEMENT OF POWER QUALITY
9.	SAMIRAN ROY	COMPUTER SCIENCE ENGINEERING	INTERNATIONAL JOURNAL OF ENGINEERING AND ASSOCIATES.	STUDY OF THE PLATFORM OF DUAL DEPENDENCY UNDER THE FRAME WORK OF CLOUD COMPUTING
10.	SANTANU MANDAL	MATHEMATICS	INTERNATIONAL JOURNAL OF MODERN NONLINEAR THEORY AND APPLICATION	CHAOTIC BEHAVIOR OF A CLASS OF NURAL NETWORK WITH DISCRETE DELAYS
11.	TRINA DUTTA	CHEMISTRY	INDIAN JOURNAL OF ENGINEERING RESEARCH AND TECHNOLOGY	REMOVAL OF ARSENIC USING MEMBRANE TECHNOLOGY: A REVIEW
12.	RIMI GHOSH	ELECTRONICS AND INSTRUMENTATION ENGINEERING	PAPER Publication in International Journal of Pure & Applied Physics	Novel Compact, Dual Frequency FSS Design using Patch with Annular Rectangular Slots
13	Susmita Das	ELECTRONICS AND INSTRUMENTATION ENGINEERING	Paper publication in International Journal of Scientific and Research publications	Automatic speed control of single phase induction motor with the variation of ambient temperature
14	Hiranmoy	Mathematics	Paper Publication in	On Caccioppoli-Kannan Type Fixed Point

	Dasgupta		International Journal: International Mathematical Forum	Principle in Generalized Metric Spaces.
15	Susmita Das	ELECTRONICS AND INSTRUMENTATION ENGINEERING	Paper publication in International Journal of Scientific and Research publications	Design and simulation approach introduced to ECG peak detection with study on different cardiovascular diseases.
16	Samiran Roy	Computer Science & Engineering	Paper publication in International Journal of Scientific and Research publications	An inter-dependent cloud computational framework incorporating multi-platform switchover.
SL. NO.	NAME	DEPT.	Name OF The Journal	Title Of The Paper/Thesis
17	Reetam Mondal	ELECTRICAL ENGINEERING	Publication in International Journal of Electronics & Computer Science Engineering (IJECS)	Design and Development of a low cost Colour Sensor and its application in Angular Position Control System of a Stepper Motor.
18	Lusika Halder	ELECTRICAL ENGINEERING	Publication in International Journal of Electronics and Computer Science Engineering (IJECS)	Load Frequency Control in Interconnected Power System by Using Classical Controller
19	Nilotpal Manna	ELECTRONICS AND INSTRUMENTATION ENGINEERING	Innovative System Design and Engineering	Model Representation and Study of Essence Effect Creation through Internet Technological Aspect
20	Rimi Ghosh	ELECTRONICS AND INSTRUMENTATION ENGINEERING	International Journal of Electronics Communication Engg	Design of compact, multiband frequency selective surge
21	Rimi Ghosh	ELECTRONICS AND INSTRUMENTATION ENGINEERING	International Journal of Electrical & Electronics Engg	Wide Band Frequency selective surface with parth elements loaded with circular ring slots
22	Nilotpal Manna	ELECTRONICS AND INSTRUMENTATION ENGINEERING	African Journal of Computing & ICT of IEEE	Performance study and analysis towards discrete system introducing Jury test simulator.
23	Biswarup Neogi	Electronics & Communication Engineering	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering	An Approach towards Dactylogy with Motor Controlled Artificial Arm
24	Biswarup Neogi	Electronics & Communication Engineering	International Journal of Electrical & Electronics Engg	

### Reimbursement of PhD enrollment, expenses related to thesis submission

#### Reimbursement of Thesis Submission charges:

SL. NO.	NAME	DEPT.	Nature of expenses	Title Of The Paper/Thesis
1	KARABI GANGULY	BIOMEDICAL ENGINEERING	Thesis charges	ROLES OF ESTROGEN AND PROGESTERONE ON THE INSULIN INDUCED MASPIN SYSTHESIS IN BREAST CANCER
2	Dharampal Singh	Computer Science & Engineering	Thesis submission & printing charges	Knowledge discovery using data mining and soft computing methodology.
3	Swastika Chakraborty	Electronics & Communication Engineering	Thesis submission & printing charges	Tropical Cloud Characteristics and their Inter- relation with water vapour and rain
4	Rimi Ghosh	ELECTRONICS AND INSTRUMENTATION ENGINEERING	Thesis submission & printing charges	Design & analysis of compact & broadband frequency selective surface with multi frequency operation.

### Reimbursement of PhD Enrolment charges:

SL. NO.	NAME	DEPT.	Nature of expenses	Title Of The Paper/Thesis
1	TRINA DUTTA	CHEMISTRY	PhD Registration charges	Study of Arsenic Removal through solid membrane & its dynamic simulation
2	Ranjana Roy	Electronics & Communication Engineering Dept.	PhD Registration charges	Studies for the enrichment of compactness, bandwidth and multifrequency operation of flat and curved frequency selective surfaces.
3	Satrughna Singha	Computer Science & Engineering	PhD Enrolment charges	FPGA implementation of conversion of binary to double base number system (DBN) using various search algorithms.
4	Pranati Rakshit	Computer Science & Engineering	PhD Enrolment charges	The Studies on Hemodynamic Modeling in uman Cerebral Casculature.
5	Sohom Sengupta	Information Technology	PhD Enrolment charges	--
6	Indranath Sarkar	Electronics & Communication Engineering	PhD Enrolment charges	--
7	Ira Nath	CSE	PhD Registration charges	REGN No. PhD/R/2015/0042

### International visit of the faculty members:

- i. Dr. U. Bandyopadhyay, then Principal and now Prof, ME Dept. attended a symposium titled "Haptics Symposium" to be held at Houston, Texas, USA during the period February, 23-26, 2014.
- ii. Mrs. Soma Biswas, AP (EE) attended conference 'ICEEA-2013' at Hongkong from 23-25 August 2013.
- iii. Dr. P K Bardhan, HOD (ME) attended 14th International Foundry Men Conference during 13-19 May 2014 at Opatija in Croatia.
- iv. Mrs. S S Ghosh, Nodal Officer, IIIPC and Dr. S S Gupta, Nodal Officer (Academic) & HOD (IT) for International travel to USA to attend Conference 'NAFSA-2013' from 21-31 May 2013 (Institutional Funding)
- v. Mr. Indranath Sarkar, ECE Dept. attended Oxford Summit of Leaders in UK during 15<sup>th</sup> -20<sup>th</sup> December 2013 (Institutional Funding)

### ❖ Teaching & Research Assistantship:

#### **No. of non-GATE students received Teaching Assistantship:**

**120 Nos.** [08 in 2016-17 1<sup>st</sup> year, 27 in 2015 and 2016; 42 of 1st year students of 2013-14 & 28 of 2nd year students of session 2012-13, 15 of 2<sup>nd</sup> year students from 2011-12 batches]

### **Impact:**

- Direct involvement of students in day-to-day laboratory class activities, enriching them with skill of knowledge sharing and class room management.
- Development of disciplined attitude and work ethics.

- MCNT and EIE M. Tech students participated in implementation of AICTE-RPS project of ECE Dept.
- Students of EIE, NST, IT, CSE, MCNT published research papers in Journals of International repute.
- Need to be extended to PG students of upcoming batches. Facilities of seed money for project work should be provided if deliverables are noteworthy.
- Each student has to take 03 to 04 laboratory sessions per week as per the institutional time table.

❖ **No. of UG students associated with Industry oriented/sponsored research programs under the guidance of senior faculty**

67 in 2016, 62 in 2017 UG projects funded for JISTECH symposium.

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