



# ANNUAL REPORT (July'14 – June'15)



## MCKV INSTITUTE OF ENGINEERING

Approved by AICTE and Affiliated to Maulana Abul Kalam Azad University of Technology  
**ISO 9001:2008 Certified**

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**1. From Director's Desk :**

We have given emphasis during 2014 – 15 on enhancing quality of education provided by us to the students' right from the first year. Diagnostic tests conducted on newly admitted first year B.Tech students and identified students who require remedial classes in different subjects such as Physics, Mathematics, Chemistry and Communicating English. Subsequently, remedial classes offered to those identified students so as to strengthen themselves to cope with future lessons.

We emphasized to improve faculty quality by sending them to attend different Conferences, Workshops and Seminars. Also **55** faculty members were sent to IIT, Kharagpur to undergo Pedagogy Training (**ANNEXURE – I**) and 8 faculty members Management Capacity Enhancement Programme attended (**ANNEXURE – II**) in various IIM during the period. Plan is being prepared to provide to rest of the faculty members such training within six months duration.

Institute has encouraged faculty members to enhance their qualifications by registering for Ph.D. under different neighboring reputed universities. Three Faculty members received Ph.D, during the reporting period, one of our faculty members obtained a US Patent and Dr. Satadal Saha, Assoc. Professor of ECE obtained Post Doctoral fellowship for six months at the Centre of New Technologies of the University of Warsaw, Poland within the framework of the Erasmus Mundus EMMA. He worked at the Laboratory of Functional and Structural Genomics under the supervision of Dr. Dariusz Plewczynski, PhD.

Considering the depressing employment opportunities and economic recession, a special thrust is given to bring more number of companies for on-campus interviews resulting satisfactory placement. Soft skill training, invited lectures of reputed academicians, workshops on technical subjects, etc. were organized to prepare our students industry ready. Activities like strengthening of Industry Institute Partnership, Summer Training, etc. were conducted to boost the confidence of our students and show cases their talent.

Approved Department of Science and Technology (DST) Project titled “**Mechanochemical de-vulcanization of vulcanized rubber by dual function disulfide chemicals**” progress satisfactorily. It will be completing by 31/3/2017 as scheduled.

Two undergraduate courses, namely Automobile Engineering and Information Technology obtained NBA accreditation for two years. We have submitted e-SAR for another three UG courses of Electronics & Communications, Computer Science & Engineering and Mechanical Engineering on 30<sup>th</sup> April' 15. Evaluation Team visit is awaited.

The Govt. of India, Ministry of Human Resource Department (**MHRD**) has developed a program “Direct – to – student” module for Quality Enhancement in Engineering Education (**QEEE**) committee and permitted to set up a Remote Centre at MCKVIE for interacting faculty members of various IITs and IISc.

Subsequently MHRD has accorded approval to purchase of hardware components from the TEQIP project fund (not exceeding Rs. 7-8 lakhs) with the approval of the Institute BOG.

MCKVIE has already set up the required Remote Centre in the campus and running the interactive classes as per the schedule. In fact, MCKVIE is one of 18 best Institute running classes effectively as per MHRD (**ANNEXURE - III**).

The Two day International Conference ICCCM 2014 was held at the Institute Campus on 22<sup>nd</sup>-23<sup>rd</sup> December, 2014. Fifty presented papers were published on Search DL.

Prof. (Dr.) Ajoy Kr. Roy, Director, IEST, Shibpur was the Chief Guest. The conference was attended by internationally acclaimed academicians, viz., Prof. (Dr.) Iswar Kumar Puri of McMaster University, Canada, Prof. (Dr.) Subhash Chandra Mukhopadhyay of Massey University, New Zealand and by industry representative Mr. Prakash Jalan, Sr. Software Engineer, Oracle, USA. Ten (10) technical sessions have been chaired by renowned academicians & industry personnel. Parallel to the conference six (6) Special Lecturers were delivered. Out of 97 original research papers received, 50 papers have been presented in the conference. Proceedings of the conference have been given in soft form (DVD) to all registered participants & attending dignitaries. Top 20 conference papers have been identified for publication in ACEEE journal.

The Alumni Meet NOSTALGIA 2015 was held on 31<sup>st</sup> January, 2015 at the Institute campus. 150 Alumnus were present and the Executive Committee was formed for the Alumni Association. There was a gala musical performance by the band-Bhor followed by Dinner.

The Automobile Engineering Department imparted Training to the Diploma students of Polytechnic Durgapur where Rs.1 lakh was received in the month of January, 2015 by the Institute as Internal Revenue Generation.

The 6<sup>th</sup> All India Inter Engineering College **Academic Meet** was held on 26<sup>th</sup> April, 2015 organized by FOSET State Centre at the Institute campus. Exhibition of Science models developed by students were displayed and about 100 papers presented in seven streams by the budding engineers to share their thoughts on technology for the benefit of mankind during the programme.

We have obtained 9 points which is max. out of 9 Performance Indicator set by NPIU. Congratulations to all our staff members for obtaining always highest points from any assessment done by NPIU on various activities under TEQIP – II programme during 2014 – 15.

BOG approved to present the Research Paper of Mr. Suvanjan Bhattacharya, Asst. Professor, ME Dept. on “Numerical Study on Heat Transfer Enhancement through a Circular Duct Fitted with Centre- Trimmed twisted Tape” at the 6<sup>th</sup> International symposium on Advanced Computational Heat Transfer to be held during 25<sup>th</sup> – 29<sup>th</sup> May, 2015 under TEQIP-II Programme but could not be done since he could not obtained USA VISA on time. However he received at a later date.

**The following are the Major Highlights of the college during 2014 – 15 Academic Year:**

**i. Enrolment in M.Tech courses:**

| Sl. No. | Course Name                             | Admitted in 2012 - 13 | Admitted in 2013 - 14 | Admitted in 2014 - 15 |
|---------|---|-----------------------|-----------------------|-----------------------|
| 1       | Electronics Communication & Engineering | 13                    | 09                    | 06                    |
| 2       | Computer Science & Engineering          | 15                    | 18                    | 01                    |
| 3       | ECE(VLSI Design)                        | 09                    | 10                    | 04                    |
| 4       | Automotive Technology                   | 02                    | 06                    | 02                    |
|         | <b>TOTAL</b>                            | <b>39</b>             | <b>43</b>             | <b>13</b>             |

**ii. Increase of Faculty in each discipline:**

Due to the retirement of the Principal, Prof.(Dr.) Asok Kumar is appointed as the full time Principal and the retired Principal Prof.(Dr.) Parasar Bandyopadhyay is appointed as full time Director by creating post through BOG. Further two Professors; one in Automobile Engineering, Prof.(Dr.) Samir Saha and another one in Basic Science, Prof.(Dr.) Panchanan Pramanik have been appointed to strengthen research activities.

**Strength of students in 2014 -15 :**

| Women           | SC/ ST        | OBC            | General          | Total |
|-----------------|---------------|----------------|------------------|-------|
| 470<br>(22.93%) | 35<br>(1.71%) | 188<br>(9.17%) | 1827<br>(89.12%) | 2050  |

- iii. Number of **fully functional PCs** available for students in the year 2014 - 15 : **582**
- iv. Total number of **text books and reference books** available in library for UG and PG students in the year 2014 - 15 : **33,420**.
- v. % of UG students placed through **Campus interviews** in the year 2014 - 15 : **50 %**
- vi. % of high quality **Under Graduates (>75% marks)** in the year 2013 - 14 : **29%**
- vii. % of high quality **Post Graduates (>75% marks)** in the year 2013 - 14 : **56.63 %**
- viii. **Cumulative number of M.Tech** produced from 2010 to 2015 : **123**
- ix. The **Transition rate** of students from 1st year to 2nd year are as follows :

| Academic Year | Women   | SC/ ST  | OBC     | General | All students |
|---------------|---------|---|---------|---------|--------------|
| 2012 - 13     | 89.47 % | NIL<br>(No such student in 1 <sup>st</sup> year admitted) | 80.00 % | 77.87 % | 77.78 %      |
| 2013 - 14     | 88.46%  | One SC student admitted but not promoted                  | 80.00%  | 78.99%  | 78.84%       |
| 2014 – 15     | 91.14%  | 75%   | 92.86%  | 98.15%  | 93.28%       |

**x. Development of different Laboratories :**

Every department is provided with two to three class rooms with **ICT teaching facilities**.

One Remote Class Room is set up for facilitating our students and teachers to avail quality enhancement program “Direct – to – student” conducted by MHRD through IIT, Madras under QEEE programme.

One computer laboratory is upgraded and full equipped with to conduct TOEFL examination.

- xi. No. of volumes of the Institute library enhanced from **31,301 to 33,420 books**. Subscription for **2 e-journals continued**.
- xii. The **Institute further is benefited** by conducting training programs & Workshops and sending its faculty, staff and students to the various Institutes for participating in training programs, Workshops & Conferences.

**xiii. Activities of the Professional Bodies (ANNEXURE – IV) :**

MCKVIE always encourages its students to interact with various professionals in their own area. At the institute we have Students' Chapter of Society of Automotive Engineers (SAE), Computer Society of India (CSI), The Institute of Engineers & Technology (IET), Institute of Engineers IE(I), Internet Society (ISOC) and Indian Society of Heating Refrigeration & Air Conditioning Engineers (ISHRAE) of which many students become members for their development of self-confidence, new skills and leadership qualities.

**xiv. Special academic achievements of the Institution –**

- a. Three faculty received Ph.D degree in Engineering.
- b. Four Books published by the faculty members of this Institute.
- c. 51 papers published in **International Journals** by the faculty of this Institute.
- d. 2 papers published in the Journals and 14 papers presented in the Conferences by the students of this Institute.
- e. 13 Workshops and 17 Expert Lectures organized.
- f. Four M.Tech, students namely Saptarni Rudra – 2<sup>nd</sup> Year, ECE – VLSI Design, Gulfshan Parveen – 2<sup>nd</sup> Year, ECE – VLSI Design, Satyaki Sinha – 2<sup>nd</sup> Year, ECE - VLSI Design and Ratul Adhikari, CSE 1<sup>st</sup> Year received GATE Scholarship from AICTE.

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**Prof. (Dr.) Parasar Bandyopadhyay**  
**Director & TEQIP - Head**

## ACTIVITIES AND PERFORMANCE DURING 2014 – 15

## 1. Academics :

## 1.1 Programmes Offered--- B.Tech

| Sl. No. | Description/Name                     | Intake | Sl. No. | Description/Name                              | Intake |
|---------|--------------------------------------|--------|---------|---|--------|
| 1       | Automobile Engineering (AUE)         | 60     | 4       | Electronics & Communication Engineering (ECE) | 60     |
| 2       | Computer Science & Engineering (CSE) | 60     | 5       | Information Technology (IT)                   | 60     |
| 3       | Electrical Engineering (EE)          | 60     | 6       | Mechanical Engineering (ME)                   | 60     |

## Programmes Offered --- M.Tech

| Sl. No. | Description/Name                        | Intake | Sl. No. | Description/Name               | Intake |
|---------|---|--------|---------|--------------------------------|--------|
| 1       | Automotive Technology                   | 18     | 3       | Computer Science & Engineering | 18     |
| 2       | Electronics & Communication Engineering | 18     | 4       | ECE (VLSI Design)              | 18     |

## 1.2 Major Activities :

## 1.2.1 TEQIP Activities:

## i. Status of Autonomy :

- Obtain recognition of UGC under section 2 (f).
- We have **already received the details of expert committee members** constituted by UGC for the Conferment of fresh Autonomous Status.

## ii. Accreditation of courses :

- Obtained NBA accreditation for two Undergraduate courses; namely Automobile Engineering and Information Technology for two years from July 2014.
- Submitted e-SAR for NBA accreditation for three more UG Courses (CSE, ECE & ME) on 30<sup>th</sup> April, 2015. Evaluation team visit waited.

## iii. Teaching Assistantship for PG students :

- Teaching Assistantships of Rs. 8,000/- awarded to 36 (24 from previous year plus 12 new Non-Gate) M. Tech students. Details given in (ANNEXURE – V).



**iv. Academic Support to students including weak students :**

**❑ Full / Half Freeship :**

- a) In total 34 Institutional scholarships (Half Free-ship) were awarded from the 1<sup>st</sup> year admitted students in 2014 – 15 academic year. Details are given in **ANNEXURE – VI**.
- b) MCKVIE Management awarded the following additional Free-ships to the students faced critical financial situations due to their father's death:-

| Sl. No. | Student's Name     | Dept. / Sem.   | Type of Free Ship | Cause                    |
|---------|--------------------|--|-------------------|--------------------------|
| 1       | Ms. Jyoti Kumari   | ECE 3 <sup>rd</sup> Year<br>(5 <sup>th</sup> to 8 <sup>th</sup> Sem) | Half Free-ship    | Father's Death           |
| 2       | Ms. Tanaya Ghosh   | ECE 3 <sup>rd</sup> Year<br>(5 <sup>th</sup> to 8 <sup>th</sup> Sem) | Half Free-ship    | Father's Death           |
| 3       | Mr. Pallab Hazra   | ME 4 <sup>th</sup> Year<br>(7 <sup>th</sup> & 8 <sup>th</sup> Sem.)  | Half Free-ship    | Father's Death           |
| 4       | Mr. Rahul Puri     | AUE 4 <sup>th</sup> Year<br>(7 <sup>th</sup> & 8 <sup>th</sup> Sem.) | Half-free-ship    | Poor Financial Condition |
| 5       | Mr. Alok Kr. Gupta | AUE 4 <sup>th</sup> Year<br>(8 <sup>th</sup> Sem.)                   | Half-free-ship    | Father's Death           |
| 6       | Rituparna Dutta    | ECE 4 <sup>th</sup> Year<br>(7 <sup>th</sup> & 8 <sup>th</sup> Sem.) | Rs.10,000/-       | Poor Financial Condition |

**❑ W.B. Govt. MCM Scholarship (Rs.20,000/- per Year) :**

Total 45 students received this scholarship from West Bengal Govt. for pursuing their B.Tech in Engineering. The details are as follows: 2<sup>nd</sup> Year – 17, 3<sup>rd</sup> Year - 12 and 4<sup>th</sup> Year – 16 (**ANNEXURE – VII**).

**❑ Scholarships for Minority Students (Rs.20,000/- per Year) :**

Total 87 students received this scholarship from West Bengal Minority Development Financial Committee (WBMDFC) for pursuing their B.Tech in Engineering. The details are as follows – 2<sup>nd</sup> Year – 22, 3<sup>rd</sup> Year - 31 and 4<sup>th</sup> Year – 34 (**ANNEXURE – VIII**).

**❑ Bihar/ Jharkhand (e-Kalyan) Govt. Scholarships :**

Several students of our institute receive this full scholarship directly from the Welfare Department of the respective Govt. Therefore, we don't have correct record of no. of students receiving such scholarship during 2014 -15.

**❑ Free Hostel Fee :**

Ms. Supradipta Majumdar, 1<sup>st</sup> Year M.Tech in Automotive Technology was permitted to stay in the Girl's Hostel free of cost due to her poor financial condition.

❑ **Diagnostic Test :**

Diagnostic Tests for 1<sup>st</sup> year students and remedial teaching has been organized for 1<sup>st</sup> year students.

- Identification of Weakness of students in subject areas.
- Students who had failed in any subject.
- Students who had lost a year.
- Students who had scored below 60% in a particular subject during the current semester.

**1.2.2 Other Activities:**

❑ **Faculty & Staff development activities:**

- 13 Workshops and 17 Expert lectures on relevant subject were organized (**ANNEXURE – IX**).
- **34 Faculty members** attended FDP and 15 Faculty members attended workshop outside the Institute. 4 faculty members attended more than one FDP/ Workshop. Details given in **ANNEXURE – X**.

❑ **Faculty Achievements :**

- ❖ Dr. Satadal Saha has performed post-doc mobility at the Centre of New Technologies of the University of Warsaw within the framework of the Erasmus Mundus EMMA program from 29<sup>th</sup> December 2014 till 12<sup>th</sup> June 2015. He worked at the Laboratory of Functional and Structural Genomics under the supervision of Dr. Dariusz Plewczynski, PhD and was associated with the following research projects :-
  - Structural Modeling of Cell Nucleus from Confocal Microscopic Images
  - Network Representation and Statistical Analysis of Intra-Nucleus Structures from Scanning Electron Microscopic Images
  - An interactive method for segmentation of dendritic spine images using complementary convolution kernels
- ❖ Dr. Satadal Saha, Associate Professor of ECE dept. obtained a Patent on **Image Binarization based on Grey Membership Parameter of Pizels, U.S. Patent 8, 744, 208.82** on 3<sup>rd</sup> June, 2014.
- ❖ **Dr. Satadal Saha**, Associate Professor of ECE dept. is pursuing **post doctoral research work** under EMMA-West 2013 P6 mobility programme at University of Warsaw, Poland from 26<sup>th</sup> December 2014 to 25<sup>th</sup> June, 2015 for six months.
- ❖ **Dr. Manik Chandra Das, Assoc. Prof. of AUE dept.** was awarded The 2014 Best Reviewer Award for the International Journal of Management Science and Engineering Management, Taylor and Francis Group.
- ❖ **Ms. Suchismita Ghosh, Asst. Prof. of EE dept.** has been elected as student coordinator for MCKVIE from IET YPS, Kolkata, Local Network for the session 2014-2015.
- ❖ **Mr. Tamal Roy, Asst. Prof. of EE dept.** has been elected as Executive Committee member of IET Kolkata, Local Network for the session 2014-2015.
- ❖ **Mrs. Nabamita Banerjee (Roy), Asst. Prof. of EE dept.** has been elected as Chairperson from IET YPS, Kolkata, Local Network for the session 2014-2015. She has been elected as Senior Member of IEEE on 5<sup>th</sup> December, 2014.

- ❖ **Samir Malakar, Asst. Prof. of MCA dept.** became secretary of IEEE Young Professionals Affinity Group, IEEE Kolkata Section for 2<sup>nd</sup> time. He also became Organizing Committee member of IEEE International Conference on Recent Trends in Information Systems (ReTIS-15) will be held at Jadavpur University, Kolkata, India during 9<sup>th</sup>-11<sup>th</sup> July, 2015. **Samir Malakar** became **Organizing Secretary** and Organizing Committee member of IEEE International Conference on Research in Computational Intelligence and Communication Networks (ICRCICN) Organized by IEEE Young Professionals Affinity Group, Kolkata Section, India and Department of Information Technology, RCC Institute of Information Technology, Kolkata, India during November 20-22, 2015.
- ❖ **Mr. Suvanjan Bhattacharyya, Asst. Prof of ME dept.** won the **Best Poster Award** during Frontier energy research with industry & academia partnership held at **IIT Guwahati** during March, 2015 titled “**Design and experiment of a solar power unmanned aerial vehicle (UAV) for various purposes**”.
- ❖ **Dr. Indrajit De, Assoc. Prof. of IT dept.** has been nominated as Program Chair in an Internet Society Kolkata Chapter sponsored and DeitY, Govt of India approved project named “Indian IETF Capacity Building (IICB) Program”. The project fetched an initial agreed fund of Rs One Lakh only to the institute. During first phase Rs Fifty thousand has been already disbursed to conduct its initiation, which was held as IICB - Edition-1 on 27<sup>th</sup> June 2015 at IndiSmart Hotel, Kolkata.
- ❖ **Mr. Suvanjan Bhattacharyya, Asst Prof.-ME dept.** won the Best Paper Award at International Conference on Mechanical and Computer Science Engineering held at Goa on 5<sup>th</sup> July, 2015, on “**Heat Transfer Enhancement of Turbulent Flow of Air through a Circular Pipe and Fitted with Spring Tape**”. He has also become the Editorial Board Member of Journal of Thermal Engineering and Applications and Journal of Water Pollution & Purification Research.

**Status of Ph.D Degree given in (ANNEXURE – XI):**

- Three faculty member **received Ph. D degree.**
- 2 faculty members **submitted Thesis.**
- 3 more faculty members are planning to submit their Thesis in the Academic Year 2015-16.

**Paper/ Book Publications:**

- 51 Research Papers published in the cited International Journals; namely Web of Science, Google Scholar and Scopus by Faculty Members (**ANNEXURE– XII**).
- Four Books are published by Faculty Members (**ANNEXURE – XIII**).

**Patents filed and under consideration:**

Dr. Brojendranath Dey **filed two Indian Patents** on 16/09/2013 the details are as follows :-

- 1) A process for production of Nano Silicon from Industrial waste rice husk ash.
- 2) Process of repairing Biodiesel.

**Honour to the Faculty Members:**

Mr. Animesh Talapatra chaired a session “COMPOSITE” at the First World Conference on “FRACTURE-2014” held at Mahatma Gandhi University, Kottayam, Kerala, India during 9<sup>th</sup>-11<sup>th</sup> August 2014.

Mr. Samir Malakar has become Reviewer of International Journal “**Proceedings of the National Academy of Sciences, India Section A: Physical Sciences**”. He has become Life Member of The Indian Unit for Pattern Recognition and Artificial Intelligence (IUPRAI). He also has become Reviewer of IEEE Transactions on Image Processing.

Dr. Prasenjit Chatterjee acted as a reviewer of International Journal of Management Science and Engineering Management, Taylor and Francis. He has become an Editorial Board member of International Journal of Mechanical Engineering and Information Technology (IJMEIT).

Manik Chandra Das, Assoc. Prof., AUE dept. received his Ph. D Degree from Jadavpur University on “**Study on Performance Evaluation of Indian Technical Institutions**” on 16<sup>th</sup> September, 2014.

Indrajit De, Assoc. Prof., IT dept. received his Ph.D Degree on “**An Integrated Approach to Determination of Quality Metric for No-Reference Images**” from Indian Institute of Engineering Science and Technology (IEST) on 22<sup>nd</sup> September, 2014.

**Dr. Prasenjit Chatterjee** has become Professional member of Industrial Engineering and Operations Management (IEOM) Society, USA.

**Mr. Krishnendu Chatterjee** acted as a reviewer in the journal IET Microwaves, Antennas and Propagation.

**Dr. Prasenjit Chatterjee** has reviewed research papers for International Journal of Production Research (IJPR), Journal of Modeling in Management (JMM), Benchmarking: an International Journal, Advances in Materials Science and Engineering (AMSE) and International Journal of Management Science and Engineering Management (IJMSEM).

**Mr. Suvanjan Bhattacharyya** becomes the editorial board member in the “**Journal of Aerospace Engineering and Technology**”, November, 2014 and “**Journal of Refrigeration, Air conditioning, heating and Ventilation**”, December, 2014.

**Dr. Prasenjit Chatterjee** has become an External Expert for evaluating progress of research works of doctoral students of Jadavpur University.

**Mr. Goutam Pal**, Asst. Prof., ME dept. defended his Ph.D Thesis on 20<sup>th</sup> February, 2015 on “**Experimental Investigation and Analysis of Electro discharge Machining (EDM) for high precision Applications**”.

**Dr. Amit Phadikar** selected as a reviewer of Journal of The Institution of Engineers (India): Series B, and 2<sup>nd</sup> IEEE International Conference on Recent Trends in Information.

**Mr. Suvanjan Bhattacharyya** has become Editorial Board Member of Journal of Thermal Engineering and Applications and Journal of Water Pollution & Purification Research.

**Dr. Prasenjit Chatterjee**, Asst. Prof.-ME Dept., acted as an External expert for thesis dissertation of Master of Production Engineering examinations at Jadavpur University. He also acted as a Technical expert for faculty recruitment of Mechanical Engineering at TECHNIQUE POLYTECHNIC INSTITUTE, HOOGHLY on 8<sup>th</sup> June, 2015 and as an External expert for evaluation of progress of doctoral research works at Jadavpur University.

Mr. Tamal Roy, Asst. Prof.-EE dept. has submitted his Ph.D Thesis on “**Robust Control Oriented LFT Modeling of Nonlinear MIMO System**” on 18<sup>th</sup> May, 2015 at Jadavpur University.

Prof. (Dr.) Asok Kumar, Principal acted as an External Expert for thesis dissertation of Master of Electronics & Telecommunication Engineering examinations at Jadavpur University.

Dr. Amit Phadikar, Assoc. Prof., IT Dept. enrolled one PhD student in WBUT and he is also the reviewer of Journals like Information Sciences, Elsevier, IEEE Transaction on Image Processing.

**vii. Research Activities :**

- 14 faculty members registered for Ph.D. research works (**ANNEXURE – XIV**).

**viii. Continuing Education Programmes organized :**

AUE Department organized classes on laboratory experiments on automobile engineering for 40 diploma engineering students of New Horizons Institute of Technology (NHIT, Durgapur). The program was conducted during 6<sup>th</sup> -10<sup>th</sup> January, 2015.

Employability Enhancement Programme (EEP) for the 6h Semester B. Tech Students of Information Technology department has been started on 28th March 2015 – organized.

A 5 days Crash Course on “**Automobile Mechanism**” was conducted for the Officers of Kolkata Police from 3<sup>rd</sup>-7<sup>th</sup> June, and 22<sup>nd</sup>-27<sup>th</sup> July 2014 respectively in two batches to impart awareness on Automobile Mechanism in relation to the Safety aspects as a part of Corporate Social Responsibility.

A Continuing Education Program on “**PC Assembling & OS Installation**” is going on under the supervision of “Advanced Learning Centre for Continuing Education” of CSE Dept. Primarily this course is open for those CSE 3<sup>rd</sup> sem students who have more than 50% attendance in departmental papers only. This course for the first batch of students has been successfully completed on 6<sup>th</sup> September 2014. The second batch of students has completed the same course on 13<sup>th</sup> September 2014

**ix. Industry Institute Interaction :**

To enhance industry institute interaction, Mr. Tapas Kumar Biswas and Mr. Subhadeep Dey participated in a trade fare titled **Vibrant Gujrat** at Gandhinagar during 11<sup>th</sup>-13<sup>th</sup> January, 2015.

**Mr. Kajal Kumar Ghosh** Asst. Prof., AUE dept. visited Delhi and NCR to build up network with Industry during 8<sup>th</sup>-14<sup>th</sup> February, 2015.

**Mr. Suman Das** of EE Department has visited Pune to build up network with industry during the tenure 4th-12th April 2015.

**Campusus:**

Training & Placement Cell of MCKVIE named as Corporate Relations and Talent Transformation Cell (CRTTC) is providing necessary Technical training / Aptitude Preparation Program, Vocational/ Summer Training, Entrepreneurship Development Program to face the cut-throat competition in the job market. Detailed activities during the period are given in **ANNEXURE – XV**.

50 % final year students of 2011 – 2015 received employment offer through campus placement.

**x. Institutional Awards for the students :**

All the toppers (**ANNEXURE - XVI**) of B.Tech, M.Tech & MCA in all the years excluding final year were awarded a certificate of appreciation along with a Trophy.

Students having best attendance (**ANNEXURE - XVII**) in every class were also awarded with a Certificate of appreciation in the Fresher's Welcome function. They were also given a Library Pass to borrow four extra books of their choice.

**xi. Programmes for Employability Enhancement:**

Employability Enhancement Programme (EEP) for the 6<sup>th</sup> Semester B. Tech Students of Computer Science and Engineering department has been started on 25<sup>th</sup> March 2015. Mr. Snehal Doshi from Globsyn is the resource person of this program.

Employability Enhancement Programme (EEP) for the 6<sup>th</sup> Semester B. Tech Students of Information Technology department has been started on 28<sup>th</sup> March 2015.

An expert lecture session on **Employability Enhancement** was organized by AUE Department on 11<sup>th</sup> February 2015 for 3<sup>rd</sup> year students of AUE departments inviting **Mr. Afroz Alam**, Regional Training Head, Technical Training (East), VE commercial Vehicle.

**xii. Students' Activities (ANNEXURE - XVIII) :**

Besides academic programmes, the students are encouraged to join in extracurricular activities like cultural programmes, national service scheme, blood donation camp, free medical camp, cleanliness drive and other social awareness campaigns.

**Co-Curricular Activities:**

In order to instill a sense of service to the society, the students get enough opportunity to serve the under- privileged sections during leisure time. This gives an opportunity to work with people in a creative and constructive way thereby resulting in personality development also. The students visit to Old Age Homes, donate computers to various Orphanages and celebrate Rakhi, Diwali with them by distributing crackers, sweets and organize Sports and Games for them. They also conduct several awareness programs like “No Headphones while Driving”, “Adult Education and Literacy”, “Women Empowerment”, etc. Our Club is one the biggest Membership Rotaract Club in the world.

We have also initiated Swami Vivekananda Centre for Positive Thinking since 2011 to enhance the moral values among the young generation with the active support & advice of Ramakrishna Mission Vivekananda University, Belur Math.

The Centre is among the first five in India and already organized various seminars, lecture meets, youth programmes at regular intervals. The Centre is dedicated to orient the students, faculty & staff members of the college through teachings, life giving thoughts and philosophy of Swami Vivekananda. Regular meditation & value education classes, sprawling library of 1200 books especially on value education & spirituality as emphasized by Ramakrishna, Vivekananda & Saradadevi have added some add on values. The centre is always graced by Vice Chancellors, Educationists, Men of standing, Social workers, Senior Journalists, Doctors, and people from all professions, cultures and religions. The weekly Value Education classes are regularly conducted on Wednesdays & Saturdays at the Centre.

Our centre has also received a Project on Sustained Graded Value Education Programme (Govt. of India funded Project) for Type B Value Education Programme implemented through Rama Krishna Mission Belur Math for the year 2012-2014.

- **Activities of Rotaract Club of MCKVIE given in ANNEXURE - XIX and**
- **Activities of Vivekananda Centre for Positive Thinking given in ANNEXURE – XX.**
- **Paper Presented by Students:** Our faculty members always guide the students to write technical papers and present them in various conferences. During 2014 – 15 sixteen such technical papers are presented by our students details of which given in the **ANNEXURE – XXI.**

**xiii. Student Participation in Industry Projects:**

**Debojyoti Dey, Subham Saha, Shramona Chakraborty** of CSE Department and **Abhishek Sarkar** of ECE Department got selected at Grand-Finale of TCS EngiNX with topic **“Design and development of a system for accident prevention and traffic monitoring”**. The final will be held at Chennai on 19<sup>th</sup> August, 2015.

**xiv. Students’ Innovative Activities :**

- Our 2<sup>nd</sup> year CSE students namely Debojyoti Dey, Dipankar Sinha & Sk. Shakir Halim have designed the Voice Recognition System. The project concentrates on the Speech Synthesis through a Microphone. It is hoped that this Voice Recognition System is useful to the blind persons for learning easily without a help of a Teacher.
- Our students namely, Aritra Rakshit (4<sup>th</sup> year, Mechanical Engg. Dept) & Sumanta Laha (3<sup>rd</sup> year, Mechanical Engg. Dept) has developed a device Application **of turbulence promotions in convective heat transfer**. The basis of the Project is enhancement of inside heat transfer coefficient which will result in improving the overall performance of a heat exchanger.
- Our students namely Anindya Guin, Ayan Halder, Soumik Dhar (3<sup>rd</sup> year Mechanical Engg. Dept), Sangeet Shaw (2<sup>nd</sup> year Mechanical Engg. Dept), Arpan Pradhan (4<sup>th</sup> year Mechanical Engg. Dept) developed **“A Tesla Turbine for Power Generation in a Moving Train”**. The idea is to use the turbine on the roof of railway compartments, so that we can get sufficient wind flow which is a renewable energy source.



- To make Swimming Pools accessible to Physically Challenged persons our students namely Sumanta Laha (3<sup>rd</sup> year Mechanical Engg. Dept), Shramona Chakraborty (3<sup>rd</sup> year Computer Science Engg. Dept), Debdeep Chatterjee (ME-3<sup>rd</sup> year) has developed a project called Swimming Pool Lift.

xv. **Students Achievements :**

**TEXAS INSTRUMENT:** Texas Instrument Analog Design Contest 2014 was held on 16<sup>th</sup> September 2014. 21 groups from ECE dept. participated in the same. Out of which 2 groups were the winner securing 15 marks out of 25.

Our student Debdeep Chatterjee, Suman Chandra & Sumanta Laha of ME dept. bagged the Best paper award at the International Conference on “**Design and Fabrication of a Solar power Unmanned Aerial Vehicle**” under the guidance of Mr. Suvanjan Bhattacharya, Asst. Prof., ME dept. held at Chennai on 28<sup>th</sup> September, 2014.

Kaustabh Datta Choudhury and Devamalya Hazra had participated in third batch of TCS Codevita this year. According to their website, there were participants from over 10 countries and 2500+ colleges. They have been placed at the top 5%, thus making them eligible for participating in the 2<sup>nd</sup> round of this contest which was held on 27<sup>th</sup> August 2014.

**Shramona Chakraborty, Dipankar Sinha, Sk. Shahir Halim and Debojyoti Dey** 2<sup>nd</sup> year students of CSE Department have been awarded with 2<sup>nd</sup> best prize in Science & Engineering Fair-2015 held at BIT Museum on 6<sup>th</sup>-10<sup>th</sup> January, 2015.

Mrittika Chakraborty stood 2<sup>nd</sup> position in Essay Writing Competition at Vivekananda Society, Kolkata.

**Alok Kumar Gupta** (AUE/11/58) stood 3<sup>rd</sup> in 5Km Marathon race organized by TCS on 8<sup>th</sup> February, 2015.

Our students namely Suman Chandra, Abhik Chakraborty & Shantanu Pal won the Best Paper Award at the proceedings of **ISET2015 International Conference on Energy Systems and Developments** at Pune, Feb – 2015 on “**Computational work on Heat Transfer and Fluid Flow in an Elliptical Duct**”.

Our students of ME, 2<sup>nd</sup> year namely Anindya Guin, Ayan Halder, won the **Third Best Poster Award at IIT Guwahati** on “Wind energy: a tesla turbine for power generation in a moving train”, at the Frontier energy research with industry academia partnership during March, 2015.

**Shramona Chakraborty and Ahiry Ghosal** of CSE 2<sup>nd</sup> year have presented a poster entitled “Designed and Experiment of a Solar Power Unmanned Aerial Vehicle(UAV) for various purposes” in the workshop “Frontier research with industry academia partnership” organized by Center of Energy, IIT Guwahati during 20<sup>th</sup> – 21<sup>st</sup> March, 2015. They have also received the BEST POSTER award.



Our students were the RUNNERS UP wining Rs.8000/- Cash award in the Cricket Tournament held at Neotia Institute of Technology Management and Science from 14<sup>th</sup>-16<sup>th</sup> April, 2015.

**Mainak Acharya**, 4<sup>th</sup> Sem MCA Student has been awarded **1<sup>st</sup> Prize** in the 6<sup>th</sup> ALL INDIA INTER ENGINEERING COLLEGE ACADEMIC MEET – 2015 and SCIENCE & TECHNOLOGY EXHIBITION FOR A SUSTAINABLE SOCIETY organized by FOSET in association with MCKV Institute of Engineering held on 26th April, 2015. Title of the Paper was “Chitrolekha v1.0: A Customized Android App for Printed Bangla OCR”

**Debojyoti Dey** stood 2nd Runners Up at PATW Regional Finals with topic **Advance Gesture-Speech System for Deaf & Dumb Persons.**

**Debojyoti Dey, Deepankar Sinha and Sk. Shahir Halim** developed model on the “*Blind Man’s Audio Book*” was reported and printed in the Anandabazar Patrika on 18<sup>th</sup> June, 2015.

Our 2014 pass out student namely Rahul Saraf from Automobile Engineering dept. won the Runners up trophy in PATW-2015 held at Supreme Knowledge Foundation Group of Institutions, Mankundu on “**Breakthrough in modern technology of cars**” on 19<sup>th</sup> June, 2015.

**Four Students’ Projects, namely “Smart Irrigation System”, “Virtual Dressing Room”, “Smart ‘O’ Scope” and “Wheel Chair on Power” received prizes at different competitions/ Forums. Brief descriptions are given in ANNEXURE – XXII.**

**xvi Institutional Reforms :**

- Transparency ensured by uploading all TEQIP related documents including minutes of the meeting of BOG in the Institute’s website.
- Faculty self-appraisal in the prescribed format has been collected from all the faculty members for the session 2014-15.
- Lab Instructors’ and also administrative staffs’ self-appraisal in the prescribed format have been collected from all the faculty members for the session 2014-15.
- 2% of recurring institutional expenses are credited to the Four funds (Corpus Fund, Faculty Development Fund, Equipment Replacement Fund and Maintenance Fund).
- On-line student feedback system on performance of faculty members has been started from last semester in lieu of sample based manual feedback being collected from the students earlier.
- Counseling of the faculty members on the basis of student feedback if necessary done by the Principal along with the Head of the department.

- On-line Diagnostic system is planned to be implemented from August, 2014 for the newly admitted students to assess their level of knowledge in Physics, Chemistry, Mathematics, English Communication, Electronics and Electrical subjects they are learned in their 10 + 2 standard. Weak students undergo Remedial classes.
  
- ❑ **Learning Facilities :**
  - For better teaching-learning environment, the Institute encourages the Faculty members to use **ICT based teaching methodology**. At least two class rooms in each department are provided with these facilities.
  
  - **NPTEL data bank has been procured and installed in the campus which can be accessed from the departments.**
  
  - One **Remote Learning Centre** is operational from 1<sup>st</sup> August, 2014 and used by the students for enhancement of domain knowledge through interaction with the eminent professors of IITs and IISc.
  
- ❑ **Incentive to Faculty & Staff :**
  - **Incentive to Faculty Members :** Chairman's Reward for Publishing Research Papers in the Journals, Presenting Research Papers in the Conferences and publishing Books, a total sum of Rs. 17,500/- was disbursed to 7 Faculty members (**ANNEXURE – XXIII**).
  
  - **Generation of Internal Revenue:** The guidelines have been laid down for granting incentives to Faculty to conduct various Examinations, providing Training and undertake Sponsored Research. A good number of Faculty and Staff members have already obtained the benefit from these incentives. Rs. 9,47,709/- was generated from these activities out of which Rs.4,93,795/- was disbursed among the Faculty and Staff members. Details are given in **ANNEXURE – XXIV**.
  
  - **Completion of 10 Years Service :** Two staff members, namely Mr. Tapas Kanti Sarkar, Senior Office Assistant and Mr. Rajib Majhi, Lab. instructor in Senior Scale were felicitated with Memento and Rs. 10,000/- each was awarded as a Token of appreciation.
  
  - **The Tuition Fee is waived** for the son's of the permanent staff members of MCKVIE, if they study in M. C. Kejriwal Vidyapeeth.

## 2. Infrastructural Facilities :

### New Facilities created:

NPTEL Lab. is established.

Remote Learning centre is being set up. One Server, Two Desktop, 10 Laptops, 30 Head phones, 2 LCD Projectors with Large size screen, Sound Mixer with Speakers and special purpose DTH facility is installed to avail QEEE programmes in our Remote Class Room.

Wi-Fi facilities are upgraded and provided all over the campus.

Another 16 Mbps Broad Band connection is under consideration to augment internet facilities.

CCTV connections are planned to be provided in all the vital locations to monitor discipline in the campus:

## 3. Institution Master Plan :

- Set up MCKVIE Academy to offer various skill development courses such as Animation, ERP, Cloud Computing, Big Data Analyst, Industrial Automation, etc
- Introduce Integrated Courses, Inter-Disciplinary Courses, B.Sc/ M.Sc. in Physics, Chemistry & Mathematics.
- To offer short-term/Evening/Job-oriented courses for Industry.
- Introduce Diploma in Automobile, Electronics, Electrical and Computers.

## 4. Future Plan :

- NBA accreditation for all programmes
- Obtain ISO 9001:2015 Certification
- Introduce Entrepreneurship Development Programme through regular classes
- Improved R&D with the industry
- Introduce Dual Degree courses after obtaining Autonomy
- Campus networking with institutes of repute
- Use Alumni Base for Institutional Development

## ANNEXURE - I

## PEDDAGOGY TRAINING LIST (2014-15)

| SL.NO. | NAME                        | DESIGNATION | DEPT  | TRAINING SLOT                  |
|--------|-----------------------------|-------------|-------|--------------------------------|
| 1      | Ms. Tanushree Kumar         | AP          | EE    | 10-07-2014<br>to<br>12-07-2014 |
| 2      | Ms. Debopoma Kar Ray        | AP          | EE    |                                |
| 3      | Ms. Nabamita Banerjee (Roy) | AP          | EE    |                                |
| 4      | Mr. Sagar Mukherjee         | AP          | ECE   |                                |
| 5      | Mr. Joydeep Banerjee        | AP          | ECE   |                                |
| 6      | Mr. Abhisek Saha            | AP          | CSE   |                                |
| 7      | Mr. Asish Kr. Bose          | AP          | HSS   |                                |
| 8      | Mr. Arijit Sarkar           | AP          | IT    |                                |
| 9      | Mr. Subhra Nath Maiti       | AP          | HSS   | 17-07-2014<br>to<br>19-07-2014 |
| 10     | Mr. Srimanta Das            | AP          | HSS   |                                |
| 11     | Mr. Subir Bhadra            | AP          | MCA   |                                |
| 12     | Mr. Samir Malakar           | AP          | MCA   |                                |
| 13     | Mr. Biswajit Gayen          | AP          | ME    |                                |
| 14     | Mr. Soham Lodh              | AP          | ECE   |                                |
| 15     | Dr. Manabendra Maiti        | AP          | ECE   |                                |
| 16     | Mr. Sudeep Samanta          | AP          | EE    |                                |
| 17     | Mr. Tamal Roy               | AP          | EE    |                                |
| 18     | Mr. Puspun Lahiri           | AP          | CSE   |                                |
| 19     | Mr. Prabir Kr. Naskar       | AP          | CSE   |                                |
| 20     | Mr. Sougata Bera            | AP          | AUE   |                                |
| 21     | Mr. Samiran Samanta         | AP          | AUE   |                                |
| 22     | Mr. Shib Sankar Giri        | AP          | B.Sc. |                                |
| 23     | Mr. Swarup Chandra Giri     | AP          | AUE   | 24-09-2014<br>to<br>26-09-2014 |
| 24     | Mr. Swagata Shannigrahi     | AP          | AUE   |                                |
| 25     | Mr. Sudarshan Chakraborty   | ASP         | ECE   |                                |
| 26     | Mr. Sekhar Rana             | AP          | ECE   |                                |
| 27     | Mr. Soutrik Bose            | AP          | ME    |                                |
| 28     | Mr. Chaitanya Nandy         | AP          | ME    |                                |
| 29     | Mr. Prasenjit Das           | AP          | CSE   |                                |
| 30     | Mr. Sumit Majumdar          | AP          | CSE   |                                |
| 31     | Dr. Amit Phadikar           | ASP         | IT    |                                |
| 32     | Ms. Jayanti Mahata          | AP          | IT    |                                |
| 33     | Mr. Partha Pratim Saha      | AP          | MCA   |                                |
| 34     | Mr. Arindam Das             | AP          | MCA   |                                |
| 35     | Mr. Utpal Sarkar            | AP          | B.Sc. |                                |
| 36     | Mr. Animesh Talapatra       | AP          | AUE   | 17-11-2014<br>to<br>19-11-2014 |
| 37     | Mr. Tapas Kumar Biswas      | AP          | AUE   |                                |
| 38     | Mr. Subhasish Banerjee      | AP          | ECE   |                                |
| 39     | Dr. Prasenjit Chatterjee    | AP          | ME    |                                |
| 40     | Mr. Goutam Paul             | AP          | ME    |                                |
| 41     | Mr. Surojit Bhattacharyya   | AP          | CSE   |                                |
| 42     | Mr. Sougata Dey             | AP          | IT    |                                |
| 43     | Ms. Ipsita Dalui            | AP          | IT    |                                |
| 44     | Mr. Anjan Goswami           | AP          | MCA   |                                |
| 45     | Mr. Arijit Bhattacharya     | AP          | MCA   |                                |
| 46     | Dr. Dipankar Ghosh          | AP          | B.Sc. |                                |
| 47     | Dr. Tanmoy Roy Choudhury    | AP          | B.Sc. |                                |
| 48     | Mr. Diptayan Bhattacheryya  | AP          | HSS   |                                |
| 49     | Ms. Juin Ghosh (Sarkar)     | AP          | HSS   |                                |
| 50     | Mr. Kajal Kumar Ghosh       | AP          | AUE   |                                |
| 51     | Ms. Nibedita Naskar         | AP          | MCA   |                                |
| 52     | Ms. Sharmistha Banerjee     | AP          | MCA   |                                |
| 53     | Ms. Debanjali Chowdhury     | AP          | B.Sc. |                                |
| 54     | Ms. Suchismita Ghosh        | AP          | EE    |                                |
| 55     | Ms. Barnali Kundu (Sarkar)  | AP          | EE    |                                |

**ANNEXURE - II****MANAGEMENT CAPACITY ENHANCEMENT PROGRAMME**

| <b>Sl. No.</b> | <b>Name of the Faculty/Principal/Director /Senior Officials</b> | <b>Designation</b>                         | <b>Department</b> | <b>Training Program Duration with Date</b>          | <b>Training Program Venue</b> |
|----------------|---|--|-------------------|---|-------------------------------|
| 1              | Prof.(Dr.) Premananda Jana                                      | Professor, HOD CSE & NO Academics          | CSE               | 4 <sup>th</sup> to 9 <sup>th</sup> August, 2014     | IIM, Lucknow                  |
| 2              | Dr. Manick Ch. Das  | Assoc. Prof. & HOD AUE                     | AUE               | 4 <sup>th</sup> to 9 <sup>th</sup> August, 2014     | IIM, Lucknow                  |
| 3              | Dr. Amit Phadikar   | Assoc. Prof. & HOD IT                      | IT                | 8 <sup>th</sup> to 13 <sup>th</sup> September, 2014 | IIM, Lucknow                  |
| 4              | Dr. Swarup Kumar Mitra  | Assoc. Prof. ECE & M.Tech coordinator VLSI | ECE               | 8 <sup>th</sup> to 13 <sup>th</sup> September, 2014 | IIM, Lucknow                  |
| 5              | Dr. Indrajit De   | Assoc. Professor & In-charge Exam. Cell    | IT                | 10 <sup>th</sup> – 15 <sup>th</sup> Nov.'14         | IIM, Raipur                   |
| 6              | Dr. Gautam Maity  | Assoc. Professor & NBA Coordinator (ECE)   | ECE               | 10 <sup>th</sup> – 15 <sup>th</sup> Nov.'14         | IIM, Raipur                   |
| 7              | Ms. Jyoti Sewak   | Asst. TPO                                  | ADMIN             | 2 <sup>nd</sup> – 7 <sup>th</sup> Feb.'15           | IIM, Raipur                   |
| 8              | Ms. Aparna Howlader   | Sr. HR Executive                           | ADMIN             | 2 <sup>nd</sup> – 7 <sup>th</sup> Feb.'15           | IIM, Raipur                   |

**2014 – 15 BEST COLLEGES (PARTNERS) QEEE 5**

1. Bharathidasan Institute of Technology
2. CE Karunagappally Kollam
3. Coimbatore Institute of Technology
4. Dronacharya Group of Institutions, Greater Noida
5. Government College of Technology
6. K.S.Rangasamy College of Technology
7. MCKV Institute of Engineering
8. Paavai Engineering College
9. PEC University of Technology
10. Pondicherry Engineering College
11. Sree Vidhyanikethan Engineering College
12. Swami Parmanad College of Engineering & Technology
13. Thiagarajar College of Engineering
14. Vasavi College of Engineering
15. Vidya Pratishthan's College of Engineering
16. Amal Jyothi College of Engineering
17. B S Abdur Rahman University
18. Basaveshwar Engineering College

## ACTIVITIES OF PROFESSIONAL BODIES

### Student Chapter of IE(I):

Prof. Sugata Sen Roy of Calcutta University delivered a talk on “**Clustering & Classification in Soft Computing Approach**” under IE(I) Students’ Chapter of ITY department on 13<sup>th</sup> September 2014.

### Student Chapter ISOC:

The Indian IETF Capacity Building Program, Edition 1 was held at Smart Biz Conference Hall, Indismart Hotel, International Tower, EP Block, Sector V, Salt Lake City, Kolkata on 27<sup>th</sup> June, 2015 in collaboration with ISOC Kolkata Chapter as well as IT Dept of MCKVIE. Mr. Anupam Agarwal, Mr. Anand Raje & Dr. Indrajit De delivered the addresses. The students of IT Dept of MCKVIE presented the papers and students of several engineering colleges participated in the same.

### Student Chapter of SAE:

- (i) **SUPRA SAE-2015:** The falcon racing team participated in the virtual event from 9<sup>th</sup>-12<sup>th</sup> January, 2015 at Chennai. Our students secured 7<sup>th</sup> position in the virtual.
- (ii) **GO KART-2015:** The National competition was held at “**Lovely Professional University**” **Jhalandhar**, from 27<sup>th</sup>-30<sup>th</sup> March, 2015. Our Team “**Laksya**” participated in the event and won the 1<sup>st</sup> prize worth Rs.5000/- in the Business Plan Presentation. Out of 68 teams our team secured 6<sup>th</sup> position.

### Student Chapter of ISHRAE:

The Student Chapter of ME department of **Indian Society of Heating, Refrigerating & Air Conditioning Engineers (ISHRAE)** was inaugurated by the Chief Guest, Dr. S. P. Gon Chaudhuri, Director, NBIRT on 26<sup>th</sup> March, 2015.

### Student Chapter of IET (UK) :

**EE Department** has **organized** a 1 day Industry visit, sponsored by IET (UK) Kolkata Local network at Haldia Refinery, IOCL, on 8<sup>th</sup> April, 2015.

**Mr. Anthony Price, Director, Swanbarton Limited and Director, The Electricity Storage Network** addressed the ECE & EE students on “**Power, Energy and Time, Electricity Storage in a Renewable World**” on 24<sup>th</sup> April, 2015 which was organized by the IET (UK) student Chapter.

**ANNEXURE - V**

**List of Students Selected for Teaching Assistantship (2014-15)**

| Sl No.                          | Name of the Student       | Department | w.e.f.                  |
|---------------------------------|---------------------------|------------|-------------------------|
| <b>RENEWAL of TA (2nd year)</b> |                           |            |                         |
| 1                               | Senjuti (Das) Banerjee    | CSE        | <b>1ST August, 2014</b> |
| 2                               | Meghashree (Das) Banerjee | CSE        |                         |
| 3                               | Tanujit Sarkar            | CSE        |                         |
| 4                               | Trijit Chatterjee         | CSE        |                         |
| 5                               | Somrita Dhara             | CSE        |                         |
| 6                               | Banashree Mandal          | CSE        |                         |
| 7                               | Md. Sahanawaz             | CSE        |                         |
| 8                               | Ayindrila Ganguly         | VLSI       |                         |
| 9                               | Tanusree Chatterjee       | VLSI       |                         |
| 10                              | Prabal Ghosh              | ECE        |                         |
| 11                              | Rahul Pandit              | ECE        |                         |
| 12                              | Shilpi Nandi              | ECE        |                         |
| 13                              | Nidhi                     | ECE        |                         |
| 14                              | Arnab Kayal               | ECE        |                         |
| 15                              | Pratik Sircar             | AUE        |                         |
| 16                              | Sudipto Das               | AUE        |                         |

**NEW AWARDEE (2nd Year)**

|   |                       |          |                            |
|---|-----------------------|----------|----------------------------|
| 1 | Satyaki Banerjee      | AUE      | <b>1st September, 2014</b> |
| 2 | Debduti Sen           | CSE      |                            |
| 3 | Alok Nath Pal         | CSE      |                            |
| 4 | Sohe Mallick          | ECE-COMM |                            |
| 5 | Abhirup Patra         | ECE-COMM |                            |
| 6 | Debraj Roy            | ECE-COMM |                            |
| 7 | Sarthak Bandyopadhyay | ECE-VLSI |                            |
| 8 | Arijit Sarkar         | ECE-VLSI |                            |

**NEW AWARDEE (1st Year)**

|    |                       |          |                            |
|----|-----------------------|----------|----------------------------|
| 1  | Nirvik Banerjee       | AUE      | <b>1st August, 2014</b>    |
| 2  | Supradita Majumdar    | AUE      |                            |
| 3  | Partha Pratim Ghosh   | ECE-COMM |                            |
| 4  | Eshita Sarkar         | ECE-VLSI |                            |
| 5  | Animesh Mondal        | ECE-VLSI |                            |
| 6  | Saradindu Narayan Sil | ECE-VLSI |                            |
| 7  | Subhendu Paul         | CSE      |                            |
| 8  | Somnath Ghosh         | ECE-COMM | <b>1st September, 2014</b> |
| 9  | Sagnik Goswami        | ECE-COMM |                            |
| 10 | Md Faiz Hassan        | ECE-COMM |                            |
| 11 | Soumabrata Das        | ECE-COMM |                            |
| 12 | Keya Sanyal           | ECE-VLSI |                            |



**WBFS Scheme - 2014**  
**Receipt of Institutional Half Free Studentship**

| Sl. No. | Name                 | Roll No.  |
|---------|----------------------|-----------|
| 1       | ALOK KR. KOLEY       | AUE/14/09 |
| 2       | BISHNU PRASAD BHAKAT | AUE/14/26 |
| 3       | RAJNISH KUMAR SINGH  | AUE/14/35 |
| 4       | RAKESH KUMAR SINGH   | AUE/14/42 |
| 5       | MD.TAUSIF JAMIL      | AUE/14/43 |
| 6       | PARAMA MUKHOPADHYAY  | CSE/14/10 |
| 7       | SHINJAN KARMAKAR     | CSE/14/21 |
| 8       | ABHISHEK MITRA       | CSE/14/23 |
| 9       | ANUMA MITRA          | CSE/14/40 |
| 10      | ARJUN NAG            | CSE/14/45 |
| 11      | ALEXANDER SHAH       | CSE/14/57 |
| 12      | SOUVIK GHOSH         | ECE/14/04 |
| 13      | SAYAN PODDER         | ECE/14/13 |
| 14      | ROUNAK PAUL          | ECE/14/36 |
| 15      | ABHISHEK KUMAR SHAW  | ECE/14/54 |
| 16      | SRIJA BANDYOPADHYAY  | ECE/14/58 |
| 17      | AMAN KUMAR SHAW      | ECE/14/60 |

| Sl. No. | Name                   | Roll No.  |
|---------|------------------------|-----------|
| 18      | PRANJIT KUMAR ROY      | EE/14/007 |
| 19      | SUMAN ALU              | EE/14/15  |
| 20      | KRISHNENDU MANNA       | EE/14/22  |
| 21      | SOUMYADIP DAS          | EE/14/25  |
| 22      | RANIT KR. DE           | EE/14/60  |
| 23      | APSARA NIGAR           | EE/14/62  |
| 24      | SREETAMA ROY CHOWDHURY | IT/14/15  |
| 25      | MONISHANKAR GOSWAMI    | IT/14/24  |
| 26      | DEBARSHI GHOSH         | IT/14/29  |
| 27      | ANKAN SARKAR           | IT/14/31  |
| 28      | ARNAB GHOSH            | IT/14/48  |
| 29      | VISHAL SHAW            | ME/14/10  |
| 30      | ABHIJIT SAHA           | ME/14/32  |
| 31      | SOURAV KUNDU           | ME/14/37  |
| 32      | SOURAV BISWAS          | ME/14/44  |
| 33      | CHANDAN ROY            | ME/14/45  |
| 34      | BICKY PACHAL           | ME/14/53  |

**WORKSHOPS ORGANIZED**

1. The 2 days National Workshop organized by Mechanical and Automobile Engineering departments on “**Future Paradigms in Engineering: Road Maps for Manufacturing & Design, Engines, Thermo-Fluids and Service Sector**” have been inaugurated on 19<sup>th</sup> July, 2014 by Prof. Goutam Biswas, Director, IT- Guwahati and many eminent speakers from various IITs and Industries interacted with the participants. The workshop was attended by 67 participants including faculty members of different leading Institutes from Andhra Pradesh, IEST, Shibpur, Sikim Manipal University, and other Institutes from West Bengal.
2. MCA department organized one day Workshop on “**Android App Development**”, jointly by IEEE Young Professional (formerly IEEE GOLD) and CMATER Laboratory, Dept. of CSE, Jadavpur University on 6<sup>th</sup> September, 2014 held at Dept. of CSE, Jadavpur University.
3. An expert lecture session on “**Product Development Process Design & Simulation**” was organized jointly by AUE and ME Departments for 5<sup>th</sup> sem students of both the departments inviting Mr. Bhaskar Halder, Lead, Design & Development, Birla Tyre. The program was held on 12<sup>th</sup> September 2014.
4. A Workshop was organized by CSE dept. on ‘**Emerging Trends in IT**’ in collaboration with WebTek Labs Pvt. Ltd. for 3<sup>rd</sup>, 4<sup>th</sup> year and M.Tech students on 24<sup>th</sup> September, 2014.
5. CSE department has organized a seminar on “**Emerging Trends in IT**” on 24<sup>th</sup> September 2014 in associated with WebTek Labs Pvt. Ltd. for the students of CSE department.
6. A seminar on “**Combat Interrogation-Friend and Foe**” was organized by Department of ECE, MCKVIE on 27<sup>th</sup> October 2014. Mr. Sayan Chatterjee, Assistant Professor, Dept. of ETC, JU delivered his lecture. Thirty six students of ECE department attended the program.
7. A seminar on “**IP Networks in Modern Communicating World**” was organized by Department of ECE, MCKVIE on 15<sup>th</sup> November 2014. Mr. Saptarshi Maity, Senior Engineer (Packet Core) from Ericson India Global Services Pvt. Ltd. delivered his lecture. Fifty three students of ECE department attended the seminar.
8. EE Department organized a 2 day Workshop on “**Hands on Training on Electric Circuit Design**” on 31<sup>st</sup> January—2<sup>nd</sup> February, 2015.
9. National Seminar was organized on “**Power System Equipment: Basic Requirements, Protection and Condition Monitoring**” on 26<sup>th</sup> February, 2015 by EE dept.
10. EE and ECE Department organized a 5 days Faculty Development Programme on “**Research Methodology**” which was held during 23<sup>rd</sup> -27<sup>th</sup> March, 2015.
11. CSE Department organized a Workshop on “**Linux System Administration**” for 6<sup>th</sup> Semester students on 21<sup>st</sup> March, 2015 and on 28<sup>th</sup> March, 2015. **Mr. Soumya Raha** from Micropro was the main resource person.
12. EE Department organized a 4 days Seminar on “**Soft Skills**”, delivered by Mr. Meghdoot Bhattacharya, Senior Manager, Siemens India Limited which was held on 28<sup>th</sup> February, 14<sup>th</sup>, 21<sup>st</sup>, 28<sup>th</sup> March, 2015.
13. On 14<sup>th</sup> March, 2015 a whole day Seminar was held on “**Effect of Food on Body, Mind and Environment**” organized by MCA dept. Dr. Arka Ghosh, Specialist Medical Officer, Sick Newborn Care Unit, M. R. Bangur Hospital, Kolkata, Prof. (Dr) Goutam Paul, ISI, Kolkata & Mrs. Soumi Paul, Research Scholar, Jadavpur University, Ex-IT Professional (Cognizant Technology Solutions) were the eminent speakers.

## EXPERT LECTURE ORGANIZED

1. An expert lecture session on **Current & Future Emission Technology-Trends in Diesel Engine, Diesel Engine Development Process and OBD II Regulations** was organized on 29<sup>th</sup> January 2015 jointly by AUE and ME Department for 2<sup>nd</sup> and 3<sup>rd</sup> year students of both departments inviting Mr. Jyotirmoy Barman of VE Commercial Vehicle, Pithampore.
2. An expert lecture session on **Manufacturing of Automobile Body: Recent Trends of Change in Material, Property and Finish** was organized on 7<sup>th</sup> February 2015 by AUE Department for 3<sup>rd</sup> year students of AUE & ME departments inviting Dr. Shantanu Chakrabarti, Rtd. Head, Research Application, R&D, TATA Steel.
3. An expert lecture was organized by CSE Department for 2<sup>nd</sup> year students on 10<sup>th</sup> March 2015. **Mr. Shaunak Chakraborty**, Research Scholar, IIT, Guwahati delivered a lecture on **“Research Aspect on Computer Hardware”**.
4. An Expert Lecture session on **Presentation Skill** was organized by AUE Department for 2<sup>nd</sup> year students of AUE department inviting **Mr. Afroz Alam, Regional Training Head, Technical Training (East), VE commercial Vehicle**. The program was held on 7<sup>th</sup> March 2015. The 2<sup>nd</sup> Phase of the same program was held on 16<sup>th</sup> March 2015.
5. An Expert Lecture session on **Design of Planar Linkages- from Theory to Practice** was organized by AUE and ME Departments on 17<sup>th</sup> March 2015 for 2<sup>nd</sup> year students of both departments inviting **Prof. Asok Kumar Mallik**, Ex-Professor, IIT Kanpur and Honorary Distinguished Professor, IEST, Shibpur, Howrah.
6. An Expert Lecture was organized by CSE Department for 2<sup>nd</sup> year students on 24<sup>th</sup> March 2015. **Dr. Amlan Chakrabarti**, Associate Professor of CU delivered a lecture on **“Quantum Computing”**.
7. Invited Talk on Vision Based Autonomous Path Following and Door Detecting Robots **Prof. (Dr) Amitava Chatterjee**, EE Dept, Jadavpur University organized by ECE dept. on 1<sup>st</sup> March, 2015. On the same day an in-house Workshop on Design of LED lighting System was organized for ECE students.
8. Invited Talk on Design Issues in Low Power VLSI **Prof. Subir Kumar Sarkar**, IEEE Distinguished Lecturer & Professor, Department of Electronics & Telecommunication Engineering, J.U. on 12<sup>th</sup> March, 2015.
9. TEQIP-II Sponsored One Day Expert Lectures on **“Chaos based Security and Authentication in Communication”** by **Prof. (Dr.) J. K . Mondal**, Ex- Dean FET, Kalyani University and **“SDLC- Software Engineer's Experience”** by **Mr. Banibrata Patra**, Associate Tech Specialist, Tech Mahindra Ltd. were organized by Information Technology Department on 28<sup>th</sup> March 2015.
10. National Seminar on **“Power System Equipment: Basic Requirements, Protection and Condition Monitoring”** Dr. Shivaji Chakraborty, JU, Mr. Debabrata Basu, ABB, Mr. Prabir Chatterjee, Bharat Bijlee Ltd. on 26<sup>th</sup> Feb' 15.
11. A FDP on **“Research Methodology”** by Dr. T. K. Ghoshal, Jadavpur University was organized for the faculty of the Institute and faculty members of Polytechnic colleges in West Bengal also attended the same. The programme was organized in collaboration with West Bengal State Council of Technical Education from 23<sup>rd</sup>-27<sup>th</sup> March, 2015.

12. **CSE and IT Department** jointly organized a one-week Faculty Development Program under TEQIP-II on “Web Design” during 6<sup>th</sup>-10<sup>th</sup> April, 2015. Ms. Shampa Sengupta and Ms. Jayanti Mahato were the speakers.
13. **MCA department** had organized an Intra-departmental Online Aptitude Contest for MCA students on 11<sup>th</sup> April, 2015 (Round 1) and on 22<sup>nd</sup> April, 2015(Final round) in the Departmental Lab (Room: C-101).
14. **CSE Department** organized a Seminar on 23<sup>rd</sup> April, 2015, where Mr. Rathish Das, Software Engineer (Staff) at DELL India (R&D Centre), Bangalore delivered a lecture on “Research & Carrier Aspects in IT” and “System Programming with C++, Java”.
15. **CSE Department** organized a Student Awareness program on “SSB/PABT” for the students of CSE Department on 24<sup>th</sup> April, 2015. Major General Harsh V.P. Operations, Excel, Kolkata was the speaker.
16. **CSE Department** organized an Expert Lecture for the students of CSE Department on 24<sup>th</sup> April, 2015. Dr. Ipsita Sengupta from GCELT delivered a lecture on “Digital Signal Transmission & Coding”.
17. Dr. Amit Phadikar delivered a invited talk on **LaTeX(Writing professional scientific texts)**, at ONE-WEEK FDP under TEQIP-II on “Research Methodology” at MCKV Institute of Engineering, Liluah, 23<sup>rd</sup> -27<sup>th</sup> March 2015.

**FDP/WORKSHOP/SHORT TERM COURSE ATTENDED**

1. Dr. Amit Phadikar, Mr. Sachin Balo, Mrs. Shampa Sengupta, Mr. Sougata Dey, Mr. Priyanath Mohanti and Ms. Jayanti Pathak (Rudra) attended a two-week ISTE-IITB workshop on “**COMPUTER PROGRAMMING**” under the National Mission on Education through ICT (MHRD, Govt. of India), Conducted by IIT B, during 11<sup>th</sup> May to 15<sup>th</sup> June (Online Phase-I) and during 16<sup>th</sup>-21<sup>st</sup> June 2014 (for face to face interaction Phase-II).
2. Dr. Amit Phadikar and Ms. Jayanti Mahata attended a two-week ISTE-IITB workshop on “**COMPUTER NETWORKING**” under the National Mission on Education through ICT (MHRD, Govt. of India), Conducted by IIT B, during 22<sup>nd</sup> May to 29<sup>th</sup> June(Online Phase-I) and during 30<sup>th</sup> June to 5<sup>th</sup> July 2014 (for face to face interaction Phase-II).
3. All Staff members of EE Department have attended a 3 day workshop on **Basic Fundamentals of MIPOWER Software**, organized by EE Department, at the Departmental Project Laboratory, during 10<sup>th</sup> -12<sup>th</sup> June 2014.
4. Ms. Jayanti Mahata attended a two week training program on “**Application of Electronics in Agriculture and Environment (eAgriEn)**”, Under the National Program of DeitY, Govt. of India, during 16<sup>th</sup>-27<sup>th</sup> June 2014 at CDAC, Kolkata.
5. Ms. Suchismita Ghosh, Mr. Sudeep Samanta and Ms. Tanushree Kumar attended a 6 days **Short Term Course on Design & Control of Electrical Machine**, held at CIEM during 23<sup>rd</sup>-28<sup>th</sup> June 2014.
6. Mr. Arindam Das, Mr. Anjan Goswami, Mrs. Nabamita Majumder, Mr. Rajib Chatterjee, Ms. Arpita Das Dawn attended two-week ISTE workshop on **Computer Networking** under the National Mission on Education through ICT (MHRD, Govt. of India) held at JIS College of Engineering, Kalyani organized by IIT Bombay from 30<sup>th</sup> June – 5<sup>th</sup> July 2014.
7. Mr. Kalipada Senapati attended a workshop on “**Time Series**” organized by The Association for Productivity, Quality and Reliability Salt Lake, Kolkata during 18<sup>th</sup>-19<sup>th</sup> July 2014.
8. Prof. (Dr.) Premananda Jana attended a Faculty Development Programme on “**Achieving Academic Excellence**” organized by Indian Institute of Management, Raipur during 4<sup>th</sup> -9<sup>th</sup> August 2014.
9. Mr. Anjan Goswami, Mr. Subir Bhadra and Mr. Arijit Bhattacharya attended a UGC sponsored national seminar on “**Cryptography in Modern Computing**”, held at Ramakrishna Mission Vidyamandira, Belur Math on 8<sup>th</sup> August, 2014.
10. Mr. Sekhar Rana and Mrs. Mahua Raha (Patra) attended a workshop on “**Xilinx FPGA Solution for DSP and Embedded System Application with Demonstration of Analog Discovery Kit**”, held at IEST, Shibpur on 2<sup>nd</sup> September 2014.

11. Mr. Arijit Sen attended **National Instruments Technical Symposium**, held at The Hotel Hindustan International (HHI), Kolkata on 3<sup>rd</sup> September 2014.
12. **Mr. Surojit Bhattacharyya** has attended Regional Workshop for Student, Faculty & Non-Teaching Staff Satisfaction Survey by NPIU and SPFU, West Bengal in Salt Lake campus of Jadavpur University on September 25, 2014. He has attended an Internal Audit Programme (TEQIP-II) of SPFU during November 26-29, 2014. He has also attended Post Procurement Audit for FY 15 (TEQIP-II) of MCKV institute of Engineering, West Bengal as the Nodal Officer (Procurement) on 4th December 2014 at Noida.
13. **Dr. Satadal Saha** and **Dr. Indrajit Dey** attended a workshop on “**Quality Initiatives in Technical and Higher Educational Institutions**”, organized by Engineering Staff College of India, Hyderabad held during 8<sup>th</sup>-10<sup>th</sup> October 2014.
14. **Dr. Swarup Kumar Mitra** attended in a seminar on “**MATLAB and Simulink for Engineering Education**” organized on 7<sup>th</sup> November 2014 at Kolkata.
15. **Dr. Indrajit De** and **Dr. Goutam Kumar Maity** attended a one-week FDP under TEQIP-II on “**Achieving Academic Excellence**”, conducted by IIM Raipur, held during 10<sup>th</sup>-15<sup>th</sup> November, 2014.
16. **Mr. Sumit Majumdar, Mr. Prasenjit Das, Mr. Swarup Chandra Giri , Mr. Swagata Shannigrahi, Ms. Ipsita Dalui, Mrs. Jayanti Mahata , Mr. Partha Pratim Saha, Mr. Arindam Das, Mr. Soutrik Bose and Mr. Chaitanya Nandy** have attended a Faculty Development Programme for Effective Teaching organized by Centre for Educational Technology, IIT Kharagpur held during 24<sup>th</sup> - 26<sup>th</sup> September 2014.
17. **Dr. Amit Phadikar, Dr. Dipankar Ghosh. Dr. Tanmay Roy Chowdhury, Mr. Sougata Dey, Mr. Surojit Bhattacharyya, Mrs. Juin Ghosh Sarkar, Mr. Diptayan Bhattacheryya, Dr. Prasenjit Chatterjee, Mr. Anjan Goswami, Mr. Arijit Bhattacharya, Mr. Tapas Kumar Biswas and Mr. Animesh Talapatra** have attended a Faculty Development Programme for Effective Teaching organized by Centre for Educational Technology, IIT Kharagpur, held during 17<sup>th</sup>-19<sup>th</sup> November 2014.
18. **Mr. Arijit Sarkar** participated in Asia Internet Symposium 2014 organized by Internet Society on 1<sup>st</sup> December, 2014 as Co Speaker in a Panel Discussion on “**Internet & Human Rights-- Empowering the Users**” at Hotel Novotel Kolkata.
19. **Mr. Sagar Mukherjee** and **Mr. Kalyan Biswas** participated in IEEE EDS Bhubaneswar Kolkata Mini-Colloquium on “**Advanced Electron Devices and Circuits**”, jointly organized by IEEE EDS Calcutta Chapter, ED-University of Calcutta Student Branch Chapter, ED-Heritage Institute of Technology Student Branch Chapter and School of Electronics Engineering, KIIT University, Bhubaneswar during 3<sup>rd</sup>-4<sup>th</sup> December 2014.

20. **Dr. Arghya Sarkar, Mr. S. S. Thakur, Ms. Chandrani Sadhukhan, Mr. Sankar Chakraborty, Mr. Koushik Hajra and Mr. Chandan Saha** attended 6<sup>th</sup> National Conference on Leadership organized by Confederation of Indian Industries (CII) – Suresh Neotia Centre of Excellence For Leadership on 10<sup>th</sup> December 2014 at Kolkata.
21. **Mr. Swagata Shannigrahi and Mr. Nitai Banerjee** attended a QIP short term course on “Fundamentals of Fluid Mechanics through Experiments”, held during 22<sup>nd</sup>-26<sup>th</sup> December 2014. The program was organized by Civil Engg. Department of IIT Bombay.
22. **Mr. Swagata Shannigrahi and Mr. Samiran Samanta** attended an International Workshop on ‘**Sustainable Energy, Power and Propulsion**’ during 5<sup>th</sup>-7<sup>th</sup> January, 2015. The program was organized by Mechanical Engg. Department of Jadavpur University.
23. **Dr. Amit Phadikar**, attend a **TWO-WEEK ISTE Short Term Training Programme (STTP) on Pedagogy for Effective use of ICT in Engineering Education**” under the National Mission on Education through ICT (MHRD, Govt. of India), conducted by IIT B, Physical participation at Remote centers during 5<sup>th</sup> – 7<sup>th</sup> January and 19<sup>th</sup> - 21<sup>st</sup> January 2015, Online, during 8<sup>th</sup> - 18<sup>th</sup> & 22<sup>nd</sup> - 31<sup>st</sup> January, 2015.
24. **Mrs. Rachita Ghoshhajra, Mrs. Soma Bandyopadhyay, Mrs. Moumita Sen, Mr. Abhisek Saha, Mr. Puspun Lahiri, Mr. Sougata Dey, Mr. Sachin Balo, Ms. Shampa Sengupta and Ms. Jayanti Phathak Rudra** attended a AICTE sponsored Two- Weeks Winter School Programme on “**Soft Computing Approaches in Pattern Recognition, Image Processing and Matlab**” from 8<sup>th</sup>-20<sup>th</sup> January, 2015 in KGEC, Kalyani.
25. **Ms. Debopoma Kar Ray, Mr. Sudeep Samanta**, attended a one day Seminar on “**Integrated Power Transmission System**”, on 7<sup>th</sup> February, 2015.
26. **Ms. Barnali Kundu Sarkar, Ms. Suchismita Ghosh, Mr. Kajal Kumar Ghosh** attended a Short Term Course on Faculty Development Programme for Effective Teaching at CET, IIT, Kharagpur during 10<sup>th</sup> to 12<sup>th</sup> March, 2015.
27. **Mr. Sumit Majumdar** attended a workshop on “**Quality Initiative in Technical & Higher Education Institute**” from 10<sup>th</sup> March-12<sup>th</sup> March 2015 at Hyderabad organized by ESCI.
28. **Mrs. Barnali Kundu Sarkar** attended a 3 days Short Term Course on Power Electronic Applications for Renewable Integration, organized by EE Department, IIT Kanpur during 30<sup>th</sup> March -1<sup>st</sup> April, 2015.
29. **Ms. Sharmistha Banerjee and Ms. Nibedita Naskar** have participated in the TEQIP-II course on Faculty Development Programme(FDP) for Effective Teaching during 10th-12th March, 2015 organized by Centre for Educational Technology, IIT Kharagpur.

30. **Mr. Subhadeep Dey and Mr. Samiran Samanta** attended a one week QIP short term course on Fundamentals of Fluid Mechanics through Experiments organized by IIT Bombay during 11-15 May, 2015.
31. **Dr. Amit Phadikar, Ms. Ipsita Dalui, Mr. Anjan Goswami, Mrs. Nibedita Naskar and Mrs Arpita Dash (Dawn)** attend a two-week ISTE STTP on “Introduction to Design of Algorithms” National Mission on Education through ICT (MHRD, Govt. of India) May 25, 2015 to May 30, 2015, conducted by IIT KGP.
32. **Mr. Surojit Bhattacharyya** attended National Workshop on NBA Accreditation organized by ESCI, The Institution of Engineers (India), during 18<sup>th</sup>-20<sup>th</sup> June, 2015 which was held at The Institution of Engineers (India), HP State Centre Shimla.
33. **Ms. Mahua Nandy (Pal)** attended a National Level FDP on Pedagogy and E-Learning Technologies which was academically and Technically Supported by CET, IIT KGP and organized by CSE, RCCIIT during 22<sup>nd</sup>-26<sup>th</sup> June, 2015.
34. **Mr. Goutam Paul** attended a workshop on Solid & Surface CAD Modeling with CAM Applications in CNC Machining organized by Central Workshop and Instruments Service Section in IIT, Kharagpur during 4<sup>th</sup> -8<sup>th</sup> May, 2015.



**STATUS OF OBTAINING Ph.D DEGREE**

**ANNEXURE - XI**

| <b>Ph.D DEGREE RECEIVED</b>                      |                              |                               |                                  |   |   |
|--|------------------------------|-------------------------------|----------------------------------|---|---|
| <b>Department</b>                                | <b>Name of the Faculty</b>   | <b>Registering University</b> | <b>Date of Receiving Award</b>   | <b>Name of the Supervisor(s)</b>                  | <b>Subject</b>  |
| AUE  | Dr. Manik Chandra Das        | Jadavpur University           | 16th September, 2014             | Prof. Bijan Sarkar and Prof. Siddhartha Ray       | Study on performance evaluation of Indian technical institutions.   |
| IT   | Dr. Indrajit De              | IEST, Shibpur                 | 22 <sup>nd</sup> September, 2014 | Prof.(Dr.) Jaya Sil                               | An integrated approach to determination of quality metric for no reference images                           |
| ME   | Dr. Goutam Paul              | Jadavpur University           | 13 <sup>th</sup> May, 2015       | Prof. Souren Mitra<br>Dr. Soumya Sarkar           | Experimental Investigation and Analysis of Electro Discharge Machinig (EDM) for High Precision Applications |
| <b>Ph.D. THESIS SUBMITTED</b>                    |                              |                               |                                  |   |   |
| <b>Department</b>                                | <b>Name of the Faculty</b>   | <b>Registering University</b> | <b>Date of Submission</b>        | <b>Name of the Supervisor(s)</b>                  | <b>Subject</b>  |
| ECE  | Mr. Krishnendu Chattopadhyay | IEST, Shibpur                 | November, 2014                   | Prof. S. R. Bhadra Chaudhuri & Prof. Shantanu Das | Some studies on Bandwidth enhancement of various configurations of Microstrip Antenna                       |
| <b>Ph.D. THESIS GETTING READY FOR SUBMISSION</b> |                              |                               |                                  |   |   |
| <b>Department</b>                                | <b>Name of the Faculty</b>   | <b>Registering University</b> | <b>Likely Date of Submission</b> | <b>Name of the Supervisor(s)</b>                  | <b>Subject</b>  |
| EE   | Mr. Tamal Roy                | Jadavpur University           | October, 2015                    | Dr. Ranjit Kr. Barai                              | Robust Control oriented LFT Modelling of non-linear MIMO system   |
| ECE  | Ms. Pubali Mukherjee         | Calcutta University           | January, 2016                    | Prof. L.N. Hazra                                  | Self-similarity in Walsh filters and its effects on the Farfield Diffraction Pattern                        |

**STATUS OF OBTAINING Ph.D DEGREE**

ANNEXURE - XI

| <b>ADVANCE STAGE OF Ph.D RESEARCH WORK</b> |                            |                                |                                     |                                  |   |
|--|----------------------------|--------------------------------|-------------------------------------|----------------------------------|---|
| <b>Department</b>                          | <b>Name of the Faculty</b> | <b>Registraring University</b> | <b>Tentative Date of Submission</b> | <b>Name of the Supervisor(s)</b> | <b>Subject</b>  |
| <b>ECE</b>                                 | Mr. Sudarshan Chakraborty  | IEST, Shibpur                  | 2016                                | Prof. Monojit Mitra              | Microwave Communication   |
| <b>CSE</b>                                 | Mr. Subro S. Thakur        | Jadavpur University            | 2016                                | Prof. Jamuna Kant Sing           | Mining of E Commerce Data for Product Predication and Recommendation using AI Techniques. |
| <b>IT</b>                                  | Ms Shampa Ghosh (Sengupta) | BESU, Shibpur                  | 2016                                | Dr. Asit Kumar Das               | Dimensionality reduction & classification - An approach to knowledge discovery.           |

**PUBLICATION DETAILS**  
**July 2014 to June 2015**

| <b>Sl No.</b> | <b>Publication Detail</b>  | <b><u>Web of Science</u></b> | <b><u>Google scholar indexed</u></b> | <b><u>Scopus indexed</u></b> | <b><u>No. of Citations</u></b> |
|---------------|--|------------------------------|--------------------------------------|------------------------------|--------------------------------|
| 1             | <b>Animesh Talapatra</b> , “Corrosion control by nanomaterials for renewable energy production”, Coatings & Anti Corrosion Engineering Review, Vol.5, Issue-1, 2014.   | No                           | No                                   | No                           | NOT ACCESSIBLE                 |
| 2             | <b>Animesh Talapatra</b> , Sujit Kumar Agarwal, Sanjib Pandit, Ayan Sengupta, Joydeep Saha, “Formability Characterization of Composite Sheet Materials by Erichsen Cupping Testing Method”, International Journal of ChemTech Research CODEN (USA): IJCRGG ISSN : 0974-4290, Vol.6, No.3,2014, pp 1883-1886. | No                           | Yes                                  | Yes                          | NOT ACCESSIBLE                 |
| 3             | <b>Sudipto Chaki</b> , “Pressure Drop In The Wake Behind A Truncated Aerofoil And Its Application”, International Journal of Advances in Engineering Sciences Vol.4, Issue 4, 2014,pp-39-42  | No                           | Yes                                  | No                           | NOT ACCESSIBLE                 |
| 4             | Abishek kumar, <b>Sudipto Chaki</b> , Dipankar Bose, “An Integrated GA-Taguchi Model For Parametric Optimization of Submerged Arc Welding Process”, Journal of Engineering Computers & Applied Sciences(JECAS) Volume 3, No.10, 2014,pp-9-13   | No                           | Yes                                  | No                           | NOT ACCESSIBLE                 |
| 5             | S Ghosh, <b>S. K. Saha</b> , “An Experimental Leak Test Facility For Subcooled Water Leakages”, International Journal of Mechanical and Production Engineering Research and Development , Vol. 4, Issue 5, PP. 1-12, (2014).   | No                           | No                                   | No                           | NOT ACCESSIBLE                 |
| 6             | <b>Prasenjit Chatterjee</b> , Shankar Chakraborty, “Investigating the effect of normalization norms in flexible manufacturing system selection using multi-criteria decision-making methods”, Journal of Engineering Science and Technology Review, 7(3), pp. 141-150, 2014.                                 | NOT ACCESSIBLE               | yes                                  | NOT ACCESSIBLE               | 3                              |
| 7             | <b>Prasenjit Chatterjee</b> , Suprakash Mondal, Shankar Chakraborty, “A comprehensive solution to automated inspection device selection problem using ELECTRE methods”, International Journal of Technology, 5(2), 193-208, 2014.  | NOT ACCESSIBLE               | yes                                  | NOT ACCESSIBLE               | 0                              |
| 8             | <b>Prasenjit Chatterjee</b> , Shankar Chakraborty, “Flexible manufacturing system selection using preference ranking methods: A comparative study”, International Journal of Industrial Engineering Computations, 5(2), pp. 315-338, 2014.   | NOT ACCESSIBLE               | yes                                  | NOT ACCESSIBLE               | 6                              |
| 9             | Rajeev Ranjan, <b>Prasenjit Chatterjee</b> , Shankar Chakraborty, “Evaluating performance of engineering departments in an Indian University using DEMATEL and compromise ranking methods”, OPSEARCH, 52(2), pp. 307-328, SPRINGER VERLAG, 2015.   | NOT ACCESSIBLE               | yes                                  | NOT ACCESSIBLE               | 2                              |
| 10            | <b>Ranjib, Biswas, Arunanshu S. Kuar, Souren Mitra</b> , “Process optimization in Nd: YAG laser microdrilling of alumina–aluminium interpenetrating phase composite”, Journal of Materials Research and Technology, Volume 4, Issue 3, 2015, Pages 323-332   | NOT ACCESSIBLE               | yes                                  | NOT ACCESSIBLE               | 0                              |

| <b>Sl No.</b> | <b>Publication Detail</b>  | <b><u>Web of Science</u></b> | <b><u>Google scholar indexed</u></b> | <b><u>Scopus indexed</u></b> | <b><u>No. of Citations</u></b> |
|---------------|--|------------------------------|--------------------------------------|------------------------------|--------------------------------|
| 11            | <b>Suvanjan Bhattacharyya</b> , Himadri Chattopadhyay, et al., 2015, "Numerical Study on Thermal Performance Assessment of a Compact Heat Exchanger Equipped with Two Broken Twisted Strips", Journal of Refrigeration, Air Conditioning, Heating and Ventilation, Vol. 2(2), pp – 22 – 30.  | NOT ACCESSIBLE               | yes                                  | NOT ACCESSIBLE               | 0                              |
| 12            | <b>Rajat Subhra Bhowmik, Suvanjan Bhattacharyya</b> , Kanchan Kumar Das, 2015, "Application of a Centralized Solar Powered Air-conditioning System for an Engineering College Building in Kolkata Region", Journal of Refrigeration, Air Conditioning, Heating and Ventilation, 2(2), pp – Vol. 15 – 21.   | NOT ACCESSIBLE               | yes                                  | NOT ACCESSIBLE               | 0                              |
| 13            | D. Sarkar, D. K. Kole, <b>P. Jana</b> , A. Chakraborty, "User Activity Measure in Online Social Networks using Association Rule Mining", First International Science & Technology Congress 2014, Elsevier, 28-30 Aug.2014, pp-172-178.   | No                           | Yes                                  | Yes                          | 0                              |
| 14            | S. Kahali , M. Ghorai , <b>S. S. Thakur</b> , "Image Inpainting Based on Segmentation for Relevant Patch Selection", International Conference on Computing, Communication & Manufacturing, 22-23 Dec, 2014, pp-22-28.  | No                           | Yes                                  | No                           | NA                             |
| 15            | <b>S. S. Thakur</b> , J. K. Sing, "Prediction of Online Vehicle Insurance System using Decision Tree Classifier and Baye's Classifier – A comparative Analysis" published in International International Journal of Computer Applications (0975 – 8887) International Conference on Microelectronics, Circuits and Systems (MICRO-2014), pp: 10 -17. | No                           | Yes                                  | No                           | NA                             |
| 16            | <b>S. S. Thakur</b> , J. K. Sing, "Prediction of Online Vehicle Insurance System using Decision Tree Classifier and Baye's Classifier – A Comparative Analysis", published in International Conference on Microelectronics, Circuits and Systems – MICRO 2014, Page No. 61-69, July, 2014.   | No                           | Yes                                  | No                           | NA                             |
| 17            | <b>P. K. Naskar</b> , S. Majumdar, P. Das, A. Bose, "An Analytical Survey on Different Secured Image Encryption Techniques", International Journal of Computing and Technology, Sept 2014, Vol-1(8), pp-396-403.   | No                           | Yes                                  | No                           | NA                             |
| 18            | <b>S. Bandyopadhyay</b> , B. Bandyopadhyay, "Indian Technology and Globalization: A new Wrapper on Old Context", International Research Journal of Business and Management (IRJBM), Jan 2014, Vol-1, pp-32-39.   | No                           | Yes                                  | No                           | NA                             |
| 19            | P. Chakraborty, <b>M. Nandy(Pal)</b> , "Localization of Optic Disc by Pixel Classification Method", International Conference on Computing, Communication & Manufacturing, 22-23 Dec, 2014.   | No                           | Yes                                  | No                           | 0                              |
| 20            | <b>P. K. Naskar</b> , A. Chaudhuri, A. Chaudhuri, "A Secure Symmetric Image Encryption based on Linear Geometry", Application and Innovations in Mobile Computing (AIMoC), IEEE, Mar 2014, pp-67-74.   | No                           | Yes                                  | No                           | NA                             |
| 21            | <b>P. K. Naskar</b> , A. Chaudhuri, "A Secure Symmetric Image Encryption Based on Bit-wise Operation", International Journal of Image, Graphics and Signal Processing (IJIGSP), Vol. 6(2), pp.30-38.   | No                           | Yes                                  | No                           | NA                             |

| <b>Sl No.</b> | <b>Publication Detail</b>   | <b><u>Web of Science</u></b> | <b><u>Google scholar indexed</u></b> | <b><u>Scopus indexed</u></b> | <b><u>No. of Citations</u></b> |
|---------------|---|------------------------------|--------------------------------------|------------------------------|--------------------------------|
| 22            | S. Kundu, <b>P. Jana</b> , D. De, M. Roy, "SEM Image Processing of Polymer Nanocomposites to Estimate Filler Content", International Conference on Electrical, Computer and Communication Technologies, IEEE, 05-07 March, 2015, pp-1028-1033.  | No                           | Yes                                  | No                           | NA                             |
| 23            | <b>S Saha</b> , S Basu, M Nasipuri, "A Comprehensive Survey on Different Techniques and Applications of Digital Image Processing", International Conference on Computing, Communication and Manufacturing, 75-87  | Not Accessible               | Yes                                  | Not Accessible               | Not Accessible                 |
| 24            | <b>S Saha</b> , S Basu, M Nasipuri, DK Basu, "Image binarization based on grey membership parameter of pixels", US Patent 8,744,208   | Not Accessible               | Yes                                  | Not Accessible               | Not Accessible                 |
| 25            | <b>S Saha</b> , S Basu, M Nasipuri, "A Review on Image Processing Techniques and Applications", Canadian Journal on Technology Innovation 1, 253-266  | Not Accessible               | Yes                                  | Not Accessible               | Not Accessible                 |
| 26            | RN Biswas, <b>SK Mitra</b> , MK Naskar, "A robust mobile anchor-based localisation technique for wireless sensor network using smart antenna", International Journal of Ad Hoc and Ubiquitous Computing 15 (1-3), 23-37   | Not Accessible               | Yes                                  | Not Accessible               | Not Accessible                 |
| 27            | <b>S Mukherjee</b> , S Roy, CK Sarkar, "A 30W 800MHz complimentary LDMOS power amplifier for wireless application", Superlattices and Microstructures 72, 262-271   | Not Accessible               | Yes                                  | Not Accessible               | Not Accessible                 |
| 28            | <b>S Saha</b> , S Basu, M Nasipuri, "iLPR: an Indian license plate recognition system", Multimedia Tools and Applications 74 (23), 10621-10656  | Not Accessible               | Yes                                  | Not Accessible               | 2                              |
| 29            | <b>Joyanta Kumar Roy</b> , Suman Das, "Low Cost Non-Contact capacitive Gauge glass level transmitter suitable for Remote measurement and control", Proceedings of 9th International Conference on Sensing Technology (ICST-2015) Auckland University, New Zealand.                                      | Not Accessible               | Yes                                  | yes                          | Not Accessible                 |
| 30            | Debabrata Dutta, <b>Joyanta Kumar Roy</b> "Application of Soft Computing for Health Risk Analysis due to Ingestion of Contaminant Water" Proceedings of 47th IWWA Annual Convention Kolkata, 30-31 Jan, 2014, 526-534   | Not Accessible               | Yes                                  | Not Accessible               | Not Accessible                 |
| 31            | <b>Joyanta Kumar Roy</b> & Dipu sarkar "Artificial Neural Network (ANN) in Network Reconfiguration for Improvement of Voltage Stability", Handbook of Research on Emerging Technologies for Electrical Power Planning , Analysis and Optimisation, Edited by Dr. Shisir Sandhila, IGI Global (In Press) | Not Accessible               | Yes                                  | Not Accessible               | Not Accessible                 |
| 32            | <b>J. K. Roy</b> , S. C. Mukhopadhyay "Monitoring Water in Treatment and Distribution System, Next Generation Sensors and Systems", Springer International Publishing, 257-287, TP : 311.   | Not Accessible               | Yes                                  | yes                          | Not Accessible                 |
| 33            | <b>J. K. Roy</b> , Debabrata Dutta, Arnab Gupta "A study of water hammer problem in pipe line using Monte Carlo based approach" Proceedings of 47th IWWA Annual Convention Kolkata, 30-31 Jan, 2015, 1 Feb.   | Not Accessible               | Yes                                  | Not Accessible               | Not Accessible                 |
| 34            | <b>Joyanta Kumar Roy</b> , Prasanta Kumar Roy "Internet of  | Not                          | Yes                                  | Not                          | Not                            |

|    |   |                |     |                |                |
|----|---|----------------|-----|----------------|----------------|
|    | Things in Water distribution and production of potable drinking water SDBDM” Proceedings of 47th IWWA Annual Convention Kolkata, 30-31 Jan, 2015.   | Accessible     |     | Accessible     | Accessible     |
| 35 | <b>Joyanta Kumar Roy</b> , Prasanta Kumar Roy and Suman Das, “SCADA and Business Intelligence in Water Treatment Plant”, Proceedings of 47th IWWA Annual Convention Kolkata, 30-31 Jan, 2015.   | Not Accessible | Yes | Not Accessible | Not Accessible |
| 36 | Amit Phadikar, Poulami Jana, <b>Gautam K. Maity</b> , “Performance Improvement of Reversible Watermarking using Convolution Coding and Lifting” In Proc. Of International Conference on Computational Advancement in Communication Circuits & Systems, Lecture Notes in Electrical Engineering (Springer), Kolkata, Vol. 335, Chapter 55, 30 <sup>th</sup> October to 1 <sup>st</sup> November, 2014.   | Not Accessible | Yes | Not Accessible | Not Accessible |
| 37 | Amit Phadikar, Himadri Mandal, <b>Goutam Kr. Maity</b> , “A New Model of QIM Data Hiding for Quality Access Control of Digital Image”, In Proc. Of IEEE International Conference on Soft Computing and Network Security, IEEE Explore, Coimbatore, TamilNadu, pp. 1-5, February 25 – 27, 2015.  | Not Accessible | Yes | Not Accessible | Not Accessible |
| 38 | <b>Goutam K. Maity</b> , Supriti Samanta, Ashis Kumar Mandal, “TOAD-Based All-Optical Reversible New Multiplexer” In Proc. Of International Conference on Computational Advancement in Communication Circuits & Systems, Lecture Notes in Electrical Engineering (Springer), Kolkata, Vol. 335, Chapter 48, 30 <sup>th</sup> October to 1 <sup>st</sup> November, 2014.   | Not Accessible | Yes | Yes            | Not Accessible |
| 39 | Ashis Kumar Mandal, <b>Goutam Kumar Maity</b> “An All-optical New Universal Gate Using Mach-Zehnder Interferometer” 2014 IEEE, Sixth International Conference on Computational Intelligence and Communication Networks (ICCICN 2014), pp. 1044-1048, 978-1-4799-6929-6/14, November-2014.   | Not Accessible | Yes | Yes            | Not Accessible |
| 40 | <b>Goutam K. Maity</b> , Supriti Samanta, Ashis Kumar Mandal, “Implementation of Reed Muller Expansion Technique Using Mach-Zehnder Interferometer Based All Optical Reversible Gates” Book ID: Advances in Optical Science and Engineering, Springer Proceedings in Physics 166, ISSN 0930-8989 ISSN 1867-4941 (electronic), ISBN 978-81-322-2366-5 ISBN 978-81-322-2367-2 (eBook), DOI 10.1007/978-81-322-2367-2_61 Chapter No.: 61 Pages: 497-505, Springer India, 2015. | Not Accessible | Yes | Yes            | Not Accessible |
| 41 | <b>Debapriya De</b> , Prabir Kr. Panda, Satyaban Bhunia and Madhusudan Roy, “Effect of Sol-Gel-Derived Nano-silica on the Properties of Natural Rubber-Poly Butadiene Rubber-Reclaim Rubber Ternary Blends/Silica Nanocomposites,” by Polymer-Plastics Technology and Engineering (Taylor and Francis), 53 (2014) 1131-1141.  | Yes            | No  | Yes            | Not Accessible |
| 42 | Debasruti Chowdhury, <b>Dipankar Ghosh</b> , and Mousumi Basu, “Designing a Highly Nonlinear Normally Dispersive Optical Fiber for Efficient Parabolic Pulse Generation,” <b>Journal of Physical Sciences</b> (ISSN: 0972-8791), vol. 18, pp. 19-22, 2014 (March)   | No             | Yes | No             | Not Accessible |
| 43 | <b>Dipankar Ghosh</b> , Debasruti Chowdhury, and Mousumi Basu, “Silica Based Highly Nonlinear Fibers to Generate Parabolic Self-Similar Pulses,” <b>Optical and Quantum Electronics</b> (Springer, Print ISSN: 0306-8919, Online ISSN: 1572-817X), vol. 47, no. 8, pp. 2615-2635, 2015 (March)  | Yes            | Yes | Yes            | Not Accessible |

| <b>Sl No.</b> | <b>Publication Detail</b>  | <b><u>Web of Science</u></b> | <b><u>Google scholar indexed</u></b> | <b><u>Scopus indexed</u></b> | <b><u>No. of Citations</u></b> |
|---------------|--|------------------------------|--------------------------------------|------------------------------|--------------------------------|
| 44            | Nishant Kumar, <b>Amit Phadikar</b> , "Video Summarization using Color Features and Global Thresholding", CiiT International Journal of Digital Signal Processing, ISSN: 0974 – 9594, Vol. 6(6), pp. 189-192, 2014.  | No                           | Yes                                  | No                           | NOT ACCESSIBLE                 |
| 45            | Kushal Kr. Roy, <b>Amit Phadikar</b> , "Recent Trends in Medical Image Segmentation: A Review", Canadian Journal of Technology Innovation, ISSN: 2158-5563, Vol. 1, pp. 236-247, 2014.   | No                           | Yes                                  | Yes                          | NOT ACCESSIBLE                 |
| 46            | <b>Amit Phadikar</b> , Poulami Jana, Gautam K. Maity, "Performance Improvement of Reversible Watermarking using Convolution Coding and Lifting," In Proc. Of International Conference on Computational Advancement in Communication Circuits & Systems, Lecture Notes in Electrical Engineering (Springer), Kolkata, Vol. 335, Chapter 55, 30 <sup>th</sup> October to 1 <sup>st</sup> November, 2014. | No                           | Yes                                  | No                           | NOT ACCESSIBLE                 |
| 47            | <b>Amit Phadikar</b> , Himadri Mandal, Goutam Kr. Maity, Tien-Lung Chiu, "A New Model of QIM Data Hiding for Quality Access Control of Digital Image", In Proc. Of IEEE International Conference on Soft Computing and Network Security, IEEE Explore, Coimbatore, TamilNadu, pp. 1-5, February 25 – 27, 2015.   | No                           | Yes                                  | No                           | NOT ACCESSIBLE                 |
| 48            | <b>Shampa Sengupta</b> , Asit Kr. Das, "A Study on Rough Set Theory based Dynamic Reduct for Classification System Optimization" in the International Journal on Artificial Intelligence and applications(IJAIA) Vol. 5, No. 4, July 2014.   | No                           | Yes                                  | No                           | 1                              |
| 49            | <b>Indrajit De</b> , Jaya Sil, "No reference image quality assessment using interval type 2 fuzzy sets", Applied Soft Computing (SCI IF=2.810, 5 YEARS SCI IF = 3.222), Elsevier, pp: 441-453  | Yes                          | Yes                                  | Yes                          | 1                              |
| 50            | <b>Indrajit De</b> , Jaya Sil, "A Fuzzy Regression Analysis Based No Reference Image Quality Metric", Advances in Intelligent Informatics, series in Advances in Intelligent Systems and Computing, volume 320, Ed S.Thampi, T. Hanne et al, Springer Verlag, Heidelberg, Germany, pp 87-95,   | Yes                          | Yes                                  | Yes                          | -                              |
| 51            | Showmik Bhowmik, Md Galib Roushan, Ram Sarkar, Mita Nasipuri, Sanjib Polley, and <b>Samir Malakar</b> , "Handwritten Bangla Word Recognition Using HOG Descriptor", In Emerging Applications of Information Technology (EAIT)", 2014 Fourth International Conference of, pp. 193-197. IEEE, 2014.  | No                           | YES                                  | No                           | 1                              |

## LIST OF BOOKS PUBLISHED BY FACULTY MEMBERS

| Sl. No. | Name of Author                               | Title  | Publishers                            | ISBN No.  |
|---------|--|--|---------------------------------------|---|
| 1       | Dr. Arun Kumar Jalan<br>and Mr. Utpal Sarkar | Numerical Methods<br>A Programming-<br>based Approach    | Universities<br>Press                 | ISBN: 978-81-7371-958-<br>5. 1st edition 2014               |
| 2       | Mr. Suvanjan<br>Bhattacharyya                | Internal Combustion<br>Engine and Gas<br>Turbine         | Popular<br>Publication                | ISSN/ ISBN No. -<br>PPBT2014 -03-06-31.<br>1st edition 2014 |
| 3       | Mr. Suvanjan<br>Bhattacharyya                | Internal Combustion<br>Engine and Gas<br>Turbine         | Popular<br>Publication                | ISSN/ ISBN No. -<br>PPBT2014 -03-06-31.<br>2nd edition 2015 |
| 4       | Dr. Amitosh De                               | Latest Development<br>of Heavy Earth<br>Moving Machinery | Galgotia<br>Publications<br>Pvt. Ltd. | ISBN: 978-81-7515-712-<br>5. 1st Edition 2014               |





## Ph.D REGISTRATION DETAILS

| Dept.                         | Name of the Faculty       | Registraring University | Date of Registration | Name of the Supervisor(s)  | Subject   |
|-------------------------------|---------------------------|-------------------------|----------------------|--|---|
| <b>July 2011 - Dec. 2011</b>  |                           |                         |                      |  |   |
| EE                            | Ms. Barnali Kundu Sarkar  | IEST, Shibpur           | 13.11.2011           | Prof. A. Chakraborty, Dr. A. De                                      | Congestion Management of PowNetworks with Distributed Generatorser  |
| EE                            | Ms. Nabamita Banerjee Roy | Jadavpur University     | 21.11.2011           | Prof. Kesab Bhattacharya   | Studies of Transient signals in power systems   |
| <b>July 2012 - Dec. 2012</b>  |                           |                         |                      |  |   |
| HSS                           | Ms. Lina Saha             | Univ. of Burdwan        | 02.08.2012           | Prof. Bijay Kumar Das  | From Delf-Effacement to Self-Recognition: Re-reading Mary Shelley and Elizabeth Barrett Browning  |
| ECE                           | Mr. Joydeep Banerjee      | BESU, Shibpur           | 10.08.2012           | Dr. Monojit Mitra  | Noise reduction at IMPATT Diode   |
| ECE                           | Mr. Atanu Banerjee        | BESU, Shibpur           | 07.11.2012           | Dr. Monojit Mitra  | Design and Characterisation of IMPATT Diode at Ka - Band  |
| IT                            | Mr. Arijit Sarkar         | BESU, Shibpur           | 26.12.2012           | Dr. Tuhina Samanta   | Area - Microfluidics Biochip  |
| <b>Jan 2013 - June 2013</b>   |                           |                         |                      |  |   |
| MCA                           | Mr. Samir Malakar         | Jadavpur University     | 2.05.2013            | Prof. Mita Nasipuri<br>Dr. Ram Sarkar                                | A study content retrieval from handwritten documents  |
| MCA                           | Mr. Partha Pratim Saha    | BESU, Shibpur           | 24.04.2013           | Dr. Tuhina Samanta   | VLSI Physical Design - (Routing Algorithm Design)   |
| <b>July 2013 to Dec. 2013</b> |                           |                         |                      |  |   |
| HSS                           | Mr. Firoze Basu           | Calcutta University     | 27.08.2013           | Dr.Santanu Majumder  | English   |
| AUE                           | Mr. Samiran Samanta       | IEST, Shibpur           | 09.09.2013           | Dr.Sudip Ghosh   | Novel repowering concepts applicable for Indian coal fired Power Plant and their comparative thermo-economic analysis                         |
| <b>Jan. 2014 to June 2014</b> |                           |                         |                      |  |   |
| MCA                           | Ms. Antara Sengupta       | Calcutta University     | 10.4.2014            | Prof. P.P. Chudhury  | Computational Genomics  |
| <b>Jan. 2015 to June 2015</b> |                           |                         |                      |  |   |
| EE                            | Ms.Debopoma Kar Ray       | CU                      | 22.01.2015           | Prof. S. Sengupta, Dr. Kaushik Das Sharma, Dr. Surajit Chattopadhyay | Harmonic Power Flow   |
| EE                            | Ms. Suchismita Ghosh      | CU                      | 29.01.2015           | Prof. A. karDeb, Prof. G. Sarkar                                     | Recursive solution of state space model using orthogonal function and Taylor series   |
| AUE                           | Mr. Animesh Talapatra     | IEST, Shibpur           | 03.06. 2016          | Dr. Debasis Datta  | Numerical modeling and characterization of nanocomposites for enhancement of properties using Finite Element and Molecular Dynamic Simulation |

## ACTIVITIES OF CRTT CELL

The Events and activities of CRTT Cell during the period are given below:-

- (i) **Tech Mahindra Ltd Pre placement talk** was held on 29<sup>th</sup> Aug'14 for entire final year B. Tech & MCA 2015 passing out batch students.
- (ii) **Mahindra Auto Quotient** was held on 9<sup>th</sup> September, 2014. This event was open for all students. Three teams qualified for stage round and one team was the 2<sup>nd</sup> runner up.
- (iii) TCS Ltd. had conducted a workshop on 24<sup>th</sup> September '14. The topic was '**Grooming for IT Industry**' for all final year students (accept M. Tech Automotive Technology).
- (iv) On 7<sup>th</sup> Nov' 14 Mr. Kishore Kunal, Senior Regional Trainer from Bosch India Ltd. conducted a Lecture Session on '**Enhancement of Employability & various scope / areas in their organization**'.
- (v) On 8<sup>th</sup> Nov' 14 Mr. A. K. Chakraborty, Corporate Advisor from Murli Industries Ltd. had delivered Guest Lecture on '**Enhancement of employability skill & current industry scenario**' for ME, AUE & EE 2015 pass out batch students.
- (vi) On 19<sup>th</sup> Nov'14 Cocubes conducted a Pre- assessment test for eligible candidates of 2015 pass out batch students of CSE, IT, ECE, AUE, ME, EE streams.
- (vii) On 29<sup>th</sup> Nov'14 - Seminar was organized for MCA 2015 passing out batch students for their internship program.
- (viii) On 1<sup>st</sup> Dec'14 Cocubes conducted an Online test for Capgemini eligible candidates of 2015 pass out batch students of CSE, IT, ECE, EE & MCA streams.
- (ix) On 19<sup>th</sup> Dec'14 Cocubes conducted a Pre assessment test for eligible candidates of CSE, IT, ECE, EE, ME & MCA streams.
- (x) On 20<sup>th</sup> Dec'14 **Mr. Pradyut Dutta, Deputy General Manager HR from TIL Ltd.** had interacted with students & gave a general overview about the industry & how to bridge the gap between industry & academia.
- (xi) On 27<sup>th</sup> March, 2015 Ms. Jyoti Sewak, Placement Co-ordinator attended the 9<sup>th</sup> HR Conclave held at Lalit Great Eastern, Kolkata organized by Indian Chamber of Commerce.
- (xii) Mahindra & Mahindra Ltd. organized an event which was open to all students irrespective of streams & year on '**Sustainability in Automobiles**' from 10<sup>th</sup> to 13<sup>th</sup> March'15. The students were evaluated on the basis of their learning from the presentation. 16 teams were selected. They were given a case let & e20 car to drive on a competitive track. 2 teams were selected as a winner in case let presentation & car drive respectively. The Winners of caselet got content internship of Rs. 5000/-each and Car drive winners got an off road trip organized at Iगतouri.
- (xiii) **Training in Soft Skill & Aptitude** was held from 20<sup>th</sup> June to 12<sup>th</sup> July'15 (Saturday & Sunday) for interested students of CSE, IT, ECE, EE, AUE, ME, MCA & M tech - AUE 2016 passing out batch.

## ANNEXURE XVI

## TOPPER IN THE CLASS (2014 - 15)

| Year     | Course        | Name                | Roll No.             |
|----------|---------------|---------------------|----------------------|
| 1st Year | B.Tech-AUE    | ABANISH PANDEY      | AUE/14/039           |
|          | B.Tech-ME     | RAVI RANJAN SINGH   | ME/14/005            |
|          | B.Tech-ECE    | ANKITA BHUNIYA      | ECE/14/034           |
|          | B.Tech-EE     | PARTHA PRATIM PANJA | EE/14/029            |
|          | B.Tech-CSE    | ISHANI BASU         | CSE/14/009           |
|          | B.Tech-IT     | ANKITA BHATTACHARYA | IT/14/047            |
|          | M.Tech- Comm. | MD FAIZ HASSAN      | MTECH/COMM-ECE/14/06 |
|          | M.Tech- VLSI  | ESHITA SARKAR       | MTECH/VLSI-ECE/14/01 |
|          | M.Tech-AUE    | NIRVIK BANERJEE     | MTECH/AUE/14/01      |
|          | M.Tech- CSE   | SUBHENDU PAUL       | MTECH/CSE/14/01      |
|          | MCA           | SUNREETA SEN        | MCA/14/014           |
| 2nd Year | B.Tech-AUE    | SUSMIT MAJI         | AUE/13/011           |
|          | B.Tech-ME     | SUBHAM AGARWAL      | ME/13/044            |
|          | B.Tech-ECE    | SOUMEE BANERJEE     | ECE/13/050           |
|          | B.Tech-EE     | MITHUN PRASAD ROUTH | EE/13/021            |
|          | B.Tech-CSE    | SURIT BAJAJ         | CSE/13/020           |
|          | B.Tech-IT     | TANYA SINGH         | IT/13/053            |
|          | MCA           | MANJIMA DEY         | MCA/13/029           |
| 3rd Year | B.Tech-AUE    | KRITI KARMAKAR      | AUE/12/048           |
|          | B.Tech-ME     | ARITRA RAKSHIT      | ME/12/030            |
|          | B.Tech-ECE    | SAMHITA KUNDU       | ECE/12/009           |
|          | B.Tech-EE     | POULAMEE SUR        | EE/12/038            |
|          | B.Tech-CSE    | SUPRATIK PAL        | CSE/12/048           |
|          | B.Tech-IT     | PRIYA SULTANIA      | IT/12/013            |

## ANNEXURE - XVII

## BEST ATTENDANCE IN THE CLASS (2014 - 15)

| Year     | Course         | Name                 | Roll No.              |
|----------|----------------|----------------------|-----------------------|
| 1st Year | B.Tech-AUE     | RAJNISH KUMAR SINGH  | AUE/14/035            |
|          | B.Tech-ME      | RAVI RANJAN SINGH    | ME/14/005             |
|          | B.Tech-ECE     | SUDISHA GANGULY      | ECE/14/023            |
|          | B.Tech-EE      | SHAMIK LAHA          | EE/14/055             |
|          |                | AMIT KUMAR SINGH     | EE/14/035             |
|          | B.Tech-CSE     | BALJEET SINGH        | CSE/14/016            |
|          | B.Tech-IT      | AMARTYA BANERJEE     | IT/14/017             |
|          | M.Tech- Comn.  | PARTHA PRATIM GHOSH  | MTECH/COMM-ECE/14/001 |
|          | M.Tech- VLSI   | KEYA SANYAL          | MTECH/VLSI-ECE/14/004 |
|          | M.Tech-AUE     | NIRVIK BANERJEE      | MTECH/AUE/14/01       |
| MCA      | JYOTIPRIYO RAO | MCA/14/008           |                       |
| 2nd Year | B.Tech-AUE     | SUSMIT MAJI          | AUE/13/011            |
|          | B.Tech-ME      | PREETAM DAS          | BTECH/ME/13/003       |
|          | B.Tech-ECE     | SOUMEE BANERJEE      | ECE/13/050            |
|          | B.Tech-EE      | ABHISHEK KUNDU       | (EE/13/009)           |
|          | B.Tech-CSE     | PRIYA AGARWAL        | CSE/13/004            |
|          | B.Tech-IT      | TRIPTI MUCCHAL       | IT/13/010             |
|          | MCA            | SUSMITA SAMANTA      | MCA/13/020            |
| 3rd Year | B.Tech-AUE     | KRITI KARMAKAR       | AUE/12/048            |
|          | B.Tech-ME      | SOUMYENDU CHATTERJEE | ME/12/021             |
|          | B.Tech-ECE     | AVIDEEP KHAN         | ECE/12/026            |
|          | B.Tech-EE      | SARNALI ROY          | EE/12/009             |
|          | B.Tech-CSE     | SUPRATIK PAL         | CSE/12/048            |
|          | B.Tech-IT      | MRITTIKA CHAKRABORTY | IT/12/036             |

## STUDENTS ACTIVITIES

- **PRAGATI- 2015:** The event was inaugurated by the Honourable Chief Guest Col. A. K. Nath, Executive Director, CDAC, Kolkata. PRAGATI was held on 16<sup>th</sup>-17<sup>th</sup> April, 2015 in our college campus. There were altogether seventeen events grouped into three categories: Robotics, Gaming and Miscellaneous. In Robotics group, there were four events: Robo Soccer, Inferno, Line Follower and Chase the Maze. In Gaming, there were four events: DOTA, NFS most wanted, Counter Strike 1.6 and FIFA 09. In Miscellaneous group, there were nine events: Code Storm, Blue Print (CATIA), Inceptive (Paper presentation), Enigma (Quiz), Circuitronix, Arcane (Treasure Hunt), Mathemania, Debate and Big Show. Almost 300 enthusiastic students, including almost 60 external students, from different engineering colleges in and around West Bengal participated in the program to show their technical skills and competencies. The program was sponsored by IET (UK), Kolkata Network, Red Bull and IMS, Kolkata.
- **UTOPIA-2015:** The traditional Annual Fest – UTOPIA 2014 was held from 19<sup>th</sup> -21<sup>st</sup> April, 2015. Sri Subrata Banerjee, Former International Badminton Player inaugurated the Annual `Cultural Fest as Chief Guest. The three-day gala event was over with the performance of Mir Afsar Ali and his band performance namely BANDAGE and the famous Playback Mumbai singer, Mr. Gajendra Verma. The students enjoyed the UTOPIA with joy and merriment as usual.
- **ASCENT-2015:** The Farewell Programme ASCENT-2015 was held at our Institute on 11<sup>th</sup> May, 2015. A certificate and food packets were distributed to all the final year students.

### Technological Exhibition :

- **TECHNOTICA 2014:** The preliminary round of Technotica was held on 20<sup>th</sup> August, 2014 where the HODs and senior faculty members judged the 34 projects. Out of them only 19 teams were selected for the final round which will be held on Nov'14. The event is sponsored by IET (UK).
- The final round of Technotica-2014 was held on 22<sup>nd</sup> November, 2014. The function was inaugurated by Mr. Mrinal Chakrabarty, Chairman of IET Kolkata Chapter. 12 projects participated in the same out of which finally five were selected.
- **BITM 2015:** The five projects which were selected from TECHNOTICA 2014 participated in the Science & Engineering Fair-2015 at BITM, Kolkata which was held from 6<sup>th</sup> to 10<sup>th</sup> January, 2015. The Second Prize of Rs.800/- p.m. scholarship per year per student was awarded for the Project-“**Advance Voice Assistant System**” and a Special Award of Cash prize of Rs.300/- was awarded for the Project-“**Solar Plane**”.

### Extra-curricular Activities:

- CSE Department has published their Departmental Wall Magazine ‘Computerax’ on 27<sup>th</sup> August 2014.
- MCA Department has published their 2<sup>nd</sup> issue of Departmental Wall Magazine ‘ECHHA’ on the occasion of Teachers’ Day, 5<sup>th</sup> September 2014.

- **QUAD COPTER 2014:** 2 Days Workshop on Quad Copter (3D Robotics) was held on 31<sup>st</sup> August & 1<sup>st</sup> September, 2014 conducted by Robo Feast 2014-15 with association iFest IIT-Roorkee. MCKVIE was the Zonal Centre. Three other Engineering colleges namely CEMK, BBIT & Brainware Group of Institutions (BGI) participated. 69 students participated. Out of 18 group's 2<sup>nd</sup> year students of Electrical Engineering was the winner. ECE (2<sup>nd</sup> yr MCKVIE, & 3<sup>rd</sup> yr BGI) bagged the 2<sup>nd</sup> prize. The biggest final round will be held at IIT Roorkee on March 2015.
- **VAAHAN-2015:** The Inter Collegiate off road Robotics Competition VAAHAN-2015 was held from 7<sup>th</sup>-9<sup>th</sup> February, 2015. Various competitions were Endurance Round, Figure of 8, Hill Climbing etc. 34 teams participated. The overall winning team was from Jadavpur University including one student from MCKVIE.

#### **Annual Sports and Games 2015:**

- The Cricket Tournament was held at Belur Yuva Samity Ground on 13<sup>th</sup> -15<sup>th</sup> January, 2015.
- The Basket ball Tournament was held in the Institute campus on 19<sup>th</sup> January, 2015. The other Indoor competitions held on 17-18<sup>th</sup> January, 2015 were Carom, Table Tennis and Badminton.
- **Sk. Shahir Halim, Priya Agarwal and Dipankar Sinha** of CSE 2<sup>nd</sup> year had been qualified for semi-final round in "COMPASS", Inter-College IT Quiz 2015 which was held during 13<sup>th</sup>February-14<sup>th</sup> February, 2015. **Shivam Ashish** of CSE 3<sup>rd</sup> year had also participated for the same.
- Students of 2<sup>nd</sup> year **Computer Science & Engineering Department** have organized an Intra-College Quiz Competition, "**Quizzer 2k15**", on 27<sup>th</sup> February, 2015 in association with CSI.

**ACTIVITIES OF ROTARACT CLUB OF MCKVIE**

1. Three member of our club viz. Rtr. Sayantonee, Rtr. Ankita & Rtr. Tania participated in the **Rotary Innovation** in the field of Science and Technology held at Birla Industrial and Technological Museum on 14<sup>th</sup> June'2014 organized by Rotary Club of Calcutta South West. They gave their innovative mark in this event through their technical project.
2. On 5<sup>th</sup> August, 2014, **Friendship Day** was celebrated with the underprivileged students of Disha (Evening school of MCKV). Chocolates were distributed among the children and friendship bands were tied to each others.
3. The auspicious occasion of **Raksha Bandhan** was celebrated with the underprivileged children of Lalbaba Ashram, Belur Math on 9<sup>th</sup> August, 2014.
4. Rtr. Ankit & Rtr. Tousif Haque participated in the **Inter District Youth Exchange Programme** at Mumbai from 11<sup>th</sup>-14<sup>th</sup> August, 2014. They got acquainted with Maharashtra food, culture and heritage.
5. On 15<sup>th</sup> August, 2014 the 68<sup>th</sup> **Independence Day** was celebrated in the campus. After the hoisting of flag an open Quiz competition was conducted among 150 fresher students. On the same day 15 members of our club visited the Blind school namely Bharatendu Andh Ashram at Salt Lake where the blind students sang Patriotic songs and various Bhajans. It was a great experience to the students to know that they sing almost 1000 Bhajans in various languages.
6. 13 members of our club attended the **Consumer Awareness Seminar** which was organised by Concern for Calcutta in Association with Consumer Affairs Department, Govt. of West Bengal & Rotaract District Council 3291 on 22<sup>nd</sup> August, 2014. The chief guest was Mr. Sadhan Pande, Minister-In-Charge of Consumer-Affairs-Department, Govt. of West Bengal. The seminar was very enlightening and useful to them.
7. "**Comienzo**" – The 5<sup>th</sup> Installation Ceremony was held at Malay Manch on 23<sup>rd</sup> August, 2014. The dignitaries present on the occasion were Rtn. Manoj Agarwal, President, Rotary Club of Belur, DRR Rtr. Mainak Bhattacharjee, Rtr. Samrat Basu (President 2013-14), Rtr. Ram Kumar Verma (Secretary 2013-14), Rtr. Ankit Gupta (President –2014-15) & Rtr. Sayantonee Maitra (Secretary, 2014-15). The main attraction was the change over ceremony collared to the new president. The Rotaract Bulletin "**Abhilash**" was released on the occasion.
8. Our students participated in the biggest events for the foodie of this year - The FFF (Film-Fun- Food) namely "**Food Vegas**" organized by Rotaract Club of Calcutta Metropolitan on 30<sup>th</sup> August, 2014. Our Club won the "**Best Desert**" award.
9. On 31<sup>st</sup> August, 2014 Rotary Club of Belur organized a **Corporate Quiz** at the Hotel Hindustan International (HHI), Kolkata. The members of Rotaract club of MCKVIE jointly organized and took care of the registration desk.



10. Rotaract Club of MCKVIE organized a mega **Blood Donation Camp** in association with Akhil Bharatiya Terapanth Yuvak Parishad, Interact Club of MCKV & MCKV alumni Association at our campus. The total no. of blood donors was 270 and the blood was handed over to Saroj Gupta Cancer Research Institute and Thakurpukur Cancer Hospital.
11. **Teacher's Day** was celebrated on 10<sup>th</sup> September, 2014 by Rotarcat Club. The five staff members who completed their 10 years of service were awarded on this day. Five faculty members also received Chairman's Award for publishing technical papers, books etc.
12. Our Club collected Rs.3000/- from students and staff members and the same was donated to St. Joseph's Old Age Home on 21<sup>st</sup> September, 2014 towards their Mini Fete.
13. On 15<sup>th</sup> October, 2014 Rtr. Suman Nandi, Member of Rotaract Club of Royal College of Pharmacy, Odisha **visited our college campus** along with Rtr. Mainak Das, IPP. Both the Clubs exchanged their Souvenirs and had a general discussion on cultural exchange programmes.
14. On 22<sup>nd</sup> October, 2014 **Bleaching Powder** were distributed at the proximity of the Institute to create social awareness on health and hygiene. This was a part of NSS Activity of the 1<sup>st</sup> year students.
15. The ROTARACT Club of MCKVIE organized a visit to **Lal Baba orphanage** on the occasion of **DIWALI** on 22<sup>nd</sup> October, 2014 where **crackers and sweets were distributed** to the orphanage children.
16. On the occasion of Halloween our club members organized "**Angels n Demons**" at Topsia Road on 1st November, 2014. This was a joint initiative of RC Calcutta & RC Calcutta Cosmopolitan Genesis.
17. Our Club Reporter Rtr. Navneet performed a beautiful song at the Interact District Council's event "**Ehsaas**" held on 15<sup>th</sup> November, 2014 at Rotary Sadan.
18. The First Zonal event cum children's day celebration, sports for the underprivileged children- "**Sport Star**" was held on 16<sup>th</sup> November, 2014 at UGC Ground, Uttarpara. Two underprivileged home participated in this event. One of them was our adopted home "**Lalbaba Ashram**" & the other was "**Rongdhonu**" of RC Barrackpore. There were events like 50 meter run for boys and girls, relay race etc. At the end a special run for the Rotaractors were also there. The consolation prizes were distributed to the winning kids.
19. RCC Sun City organized an **R-Kabaddi** on 16<sup>th</sup> Nov.'14 for the rotaractors held at Deshapriya Park Ground. Rtr. Toushif of our club participated in the event was also a part of the winning team.
20. Monthly Newsletter was exchanged on 3<sup>rd</sup> Nov.'14 with Rotaract Club of Eloi Mendes, RID 4560, State of Minas Gerais, Brazil.
21. The Rotaract Pujo Night Awards-**Nivedan** was held at Shovabajar Rajbari on 1<sup>st</sup> Nov.'14 where the Rotaractors facilitated the winning pujo committee with some outstanding cultural performances by them.

22. The third **Zonal Meet** was held at ZRR's place on 9<sup>th</sup> November, 2014.
23. The members from our club participated in the Rotaract District Sports "**Rage**" held on 28<sup>th</sup> December at BA CA Ground, Salt Lake. The events were Paintball, 100 mtr Race, 200 mtr Race, Relay Race, Long Jump & Tug of War. Rtr. Biswadeep Das secured first place at 200 mtr Race, first runner up in 100 mtr race, and winner of the relay race along with Rtr. Swagata.
24. One of the biggest PD event of this year was "**Brandomania**", organized by 20 Rotaract clubs of RID 3291 namely RC MCKVIE, RC Calcutta, RC Calcutta metropolitan etc. 20 clubs of RID 3291 jointly organized "**Think outside the box**" – a workshop on branding held on 14<sup>th</sup> December, 2014 at Rotary Sadan. RC MCKVIE was also a part of it. As speaker Rtn. Subhojit Roy and Gopinath Ghosh talked about the topic and the audience was very impressed by the questions raised by young minds. But the ultimate war of brands between all the organizing clubs was held on 20<sup>th</sup> December, 2014 at Rotary Sadan.
25. The club members participated in the **Chak de Kabaddi**, a Kabaddi tournament jointly organized by RCC Renaissance & RCC South Central on 21<sup>st</sup> December, 2014.
26. On 25<sup>th</sup> December, 2014 club members celebrated Christmas with the Inter District Youth Exchange Team of RID 3201 from Coimbatore.
27. Members of our club attended Amuzant ~ The District Picnic on 04/01/15.
28. Swachh Bharat Aviyaan – Service to the Society was organized by Rotaract Club of MCKVIE at Howrah Station Subway and nearby area on 20<sup>th</sup> January, 2015 from 12 Noon to 1:30 P.M. There were 40 Rotaractors, College faculty members, Administrative Staffs, Dean-Students Affairs, Principal and Director was involved in this project.
29. Members of our club went to Kolkata Book Fair on a special invitation from The British Council on 28<sup>th</sup> January, 2015.
30. On 4<sup>th</sup> February, 2015 Rotaractors had a Fellowship, Bulletin and Lapel pin exchange with Rtr. Rhythm, Vice President, Rotaract Club of Hailakandi, Assam.
31. The 5<sup>th</sup> **Charter day** of Rotaract Club was celebrated on 14<sup>th</sup> February, 2015 by cutting the cake at our college campus. The Chief Guests were Charter President Ex. Rtr. Sumoy Das and Past President Rtr. Srijita Neogy.
32. The 43<sup>rd</sup> Rotaract District Conference "**MALANG**" was held at Jetia Bari, Bally on 20<sup>th</sup>-22<sup>nd</sup> February, 2015. The Rotaractors participated in various events like TALENT HUNT, QUIZ, Junkyards etc.
33. The Interactive session with the first year students was held on 14<sup>th</sup> February, 2015. They were explained about Rotaract and how Rotaract changed one's lives. 150 students attended the session.
34. Our Rotaractors met with the **Inter District Youth Exchange Programme** team from Mumbai on 27<sup>th</sup> February, 2015 and exchanged cultural views.

35. February 23, 2015 marks the 110<sup>th</sup> anniversary of Rotary Club. Over our 110 years, Rotary members have created access to education, empowered communities, pushed polio to the brink of eradication and improved lives around the world.
36. On 14<sup>th</sup> February, 2015 Valentine's Day namely "**Cupid Attack**" was celebrated at Rotary Sadan organized by Rotaract Club of Calcutta.
37. The members of RC MCKVIE celebrated **Holi** with the teachers and staff members on 4<sup>th</sup> March, 2015. Thandai was distributed and the day was really memorable and colourful.
38. Rotaract Club of Calcutta organized "**WARP**"-A Picture Story Writing Competition & "**My Durga**"- Selfie & Write up competition on 8<sup>th</sup> March, 2015. Rtr. Sayantonee bagged 1<sup>st</sup> & 3<sup>rd</sup> prize respectively.
39. **International Women's Day** was celebrated on 8<sup>th</sup> March, 2015 by shooting a short film on women's empowerment named "Bodhan" The awareness of womanhood directed by Rtr. Anish, which showed protest against molestation at the nearby area of our college and the same was shown on 13<sup>th</sup> March at a Short Film Competition organized by Rotaract Club of North Calcutta.
40. On 9<sup>th</sup> March, 2015 Rotaractors had a joint meeting with RC Calcutta, RCC Metropolitan, RCC Cosmopolitan Genesis, at Rotary Sadan. They had also organized an event **Hau – Mau – Khau** near Nandan jointly with RC Calcutta, RCC Metropolitan, and RCC Cosmopolitan Genesis.
41. On 10<sup>th</sup> March, 2015 Rotaractors organized drawing competitions at two underprivileged schools namely Shishu Sikshalaya, Bally Bazaar and Shree Chaubey School, Belur Bazaar. Pencil, Eraser, Sharpener, Drawing sheets, Crayons, Drawing books, Refreshments were distributed to them.
42. On 12<sup>th</sup> March, 2015 Rotaractors donated 15 bags full of Old Clothes, books along with old toys and books at a slum near Bally Khal. On the same day **First aid kit** were donated to Shishu Shikshalaya, an underprivileged school at Bally Bazaar and Lalbaba Ashram, Belur, an underprivileged home.
43. On 13<sup>th</sup> March, 2015 Rotaractors donated first aid kit to Shri Chaubey School, Belur Bazaar, a less privileged school.
44. On 13<sup>th</sup> March, 2015 Rotaractors celebrated 47<sup>th</sup> Birthday of Rotaract by cutting a cake. IPDRR Rtr. Shuvratav Mitra, Rtn. Kishan Kr. Kejriwal (President Elect, Rotary Club of Belur), and Prof. Dr. Arun Kr. Jalan, (Dean, Students' Affairs, MCKVIE) graced the occasion.
45. On 14<sup>th</sup> March, 2015 Rotaract had an **Industrial Visit** to **Mother Dairy**, Dankuni. The students had a briefing session on the firm and the details, mechanism, product manufacture and packaging of various products for almost one and half hour. They learnt the details of each and every machine with their mechanism.

46. On 14<sup>th</sup> March, 2015 Rotaractors went for “**Swachh Bharat Abhiyaan**”, a cleanliness drive at Liluah Station and nearby area. It was mainly to create awareness among the people of the station for the cleanliness of our society. There were 30 Rotaractors along with staff members who successfully completed the project.
47. On 15<sup>th</sup> March, 2015 Rotaractors went to the conclusion program of World Rotaract Week organized by Rotaract District Committee, RID 3291 & Rota-Raaga organized by RC Rishra & RC North East & Rota Rangoli, organized by RC North Calcutta & RC north East at Shovabajar Rajbari Natmandir.
48. Rotaractors have taken an initiative during March, 2015 to build an active blood group database of our college, so that we can help people in need of blood.
49. Rotaractors organized **RotaSports** 2K15 on 3<sup>rd</sup> -5<sup>th</sup> April, an inter college & inter Rotaract club competition at our college campus.
50. On 18<sup>th</sup> April RC MCKVIE jointly organized with other clubs a food festival & food Selling Competition namely “**Abar Khabo**”, the food Vegas and “**Ek Sath Boisakhe**” a warm welcome of the Bengali New Year by having cultural program, foods & lots more at Shovabajar Rajbari Natmandir. MCKVIANS participated in the various cultural programmes and won the Runners Up Award in “Abar Khabo”.
51. On 19<sup>th</sup> April Rotaract Club organized a blood donation camp at college campus where 50 students donated blood for the noble cause.
52. The junior members of Rotaract Club organized a special **Farewell Party** for the senior members on 15<sup>th</sup> May, 2015. The cake cutting ceremony was held and the juniors gave some memorable mementoes to the seniors.
53. Rtr. Sayantonee got a certificate of appreciation as she is involved actively to popularize “**Rotavengers**”, a facility using WhatsApp for exchanging ideas and views. On 10<sup>th</sup> June’ 15 a website and a facebook page was launched.
54. Rotaract Club of MCKVIE, RID 3291 and Rotaract Club of Royal College of Pharmacy, RID 3262 published a joint e- bulletin “**ZEAL – unleashing the spirit**” on 14<sup>th</sup> June, 2015.
55. The members of Rotaract Club of MCKVIE had an interaction with the charter president of Rotaract Club of Metro Mondaue 2006, Cebu, Philippines, Rtr. Linette Filipino on 20<sup>th</sup> June, 2015. There was an exchange of culture, sharing of project ideas, learning of new languages and had a great time with her.
56. On 28<sup>th</sup> June, 2015, the Rotaract District Awards 2014-15 "**Paramount**" was held at Heritage Institute of Technology. We won the Best project Award out of top ten best projects of the District - Mega Blood Donation Drive and The Best joint project - along with other clubs - Food Vegas. The Third best secretary Award was won by Rtr. Sayantonee Maitra.

**ACTIVITIES OF SWAMI VIVEKANANDA CENTRE FOR POSITIVE THINKING**

- (i) On 24<sup>th</sup> July, 2014 the **Endowment Lecture** was held in the memory of Late Shri S. K. Mitra. This year the eminent Bengali Writer Sri Sanjib Chattopadhyay delivered his Lecture.
- (ii) On 4<sup>th</sup> August, 2014 our members of SVCPT and the students visited **Antpur Ramakrishna Mission** under the Project SGVEP Type B.
- (iii) On 14<sup>th</sup> August, 2014 an **Intra College Cultural Competition** consisting of Wall Magazine & PPT were held for 2<sup>nd</sup> to 4<sup>th</sup> year students. The topics for Wall Magazine & PPT were “Service to Man is Service to God”, “Save Earth, Save Water” and “Impact of Social Networking Site on today’s Society”. ECE-2<sup>nd</sup> year & 3<sup>rd</sup> year CSE students were the winners of Wall Magazine & PPT respectively.
- (iv) On 25<sup>th</sup> August 2014 students along with some faculty members visited **Sarada Math, Kashipur Udyan Bati, Narendrapur Ramakrishna Mission** Project SGVEP Type B.
- (v) On 30<sup>th</sup> August, 2014 three of our students namely Sayantonee Maitra, Chaitri Dhar and Ananya Pal actively participated at the **Swami Tejasananda Memorial Quiz Competition 2014** on “Swami Vivekananda: His Life and Message for India”, in Ramakrishna Mission Vidyamandira, Belur Math.
- (vi) On 30<sup>th</sup> August, 2014 Dr. Debi Prasad Duari, Director of Birla Planetarium delivered a Seminar on “**Challenges and aspect of Astronomy**” to 1<sup>st</sup> year students and staff members under the Project SGVEP Type B.
- (vii) On 14<sup>th</sup> September, 2014 a One Day seminar on “**Value Education & Positive Thinking**” and Youth Convention was organized by Swami Vivekananda Centre for Positive Thinking in collaboration with Ramakrishna Mission Vivekananda University, Belur Math. Swami Jnanalokanandaji Maharaj, Secretary Purulia Ramakrishna Mission was the Chief Guest. Sri Harsha Dutta, Editor Desh Patrika, Sri Tarun Goswami, City Editor, The Statesman, Swami Sibapradananda, Secretary of Patna Ramakrishna Mission, Sri Sudhir Bandyopadhyay, Founder of Vivekananda Anudhyan and Ms. Ananya Sinha Roy, student of IT-3<sup>rd</sup> year were the other speakers. Swami Divyabratana Maharaj made the audience speechless with his devotional songs.
- (viii) On 22<sup>nd</sup> September, 2014 the 1<sup>st</sup> year students under SGVEP Project were taken to Birla Industrial Technological Museum. On the same day Bed sheets and Chocolates were distributed to 92 Slum Children before Puja 2014 at Belghoria Ramakrishna Mission.
- (ix) The members of the Centre were felicitated on 12<sup>th</sup> October by our Managing Trustee, Mr. Kishan Kumar Kejriwal on successful completion of the SGVEP Project for the year 2014.
- (x) The birthday of Holy Sarada Ma was celebrated on 13<sup>th</sup> December, 2014.

- (xi) On 20<sup>th</sup> February, 2015 the Centre Celebrated 180th Birth Anniversary of Sri Ramakrishna Paramhansa. A small Lecture session held at the Centre.
- (xii) A Representative Faculty Member from Camellia Institute of Technology visited Our Centre on 22<sup>nd</sup> March, 2015 and familiarized with the activities of the Centre. They also expressed their interest to set up such a Centre at the Camelia Institute.
- (xiii) On 7<sup>th</sup> June, 2015 a One Day seminar on “**Value Education & Positive Thinking**” and Youth Convention was organized by Swami Vivekananda Centre for Positive Thinking in collaboration with Ramakrishna Mission Vivekananda University, Belur Math. Swami Swami Pratibodhanandaji Maharaj, Ramakrishna Mission Belur Vidyamandira was the Chief Guest. Ms. Alokanda Roy, Social Worker & Dancer, Swami Mahamedhanandaji Maharaj, Ramakrishna Mission Belur Vidyamandira, Dr. Susmita Ghosh, Ex Teacher, Bharatiya Vidya Bhavan, Mr. Gopendra Chowdhury, RMIC, Golpark, Mr. Arijit Sarkar, Asst Prof.-IT dept.-MCKVIE, Ms. Siuli Roy, Ramakrishna Sarada Ashrama, Antpur and Ms. Ishita Biswas, student of IT-final year were the other speakers. Swami Kalyaneshanandaji Maharaj, Taki Ramakrishna Mission made the audience speechless with his devotional songs.
- (xiv) Mr. Arijit Sarkar, Asst. Prof., IT Dept. has attended BOS Meeting at Computer Sc. Dept. at Ramakrishna Mission Vidyamandira on 12<sup>th</sup> June, 2015.

## PAPER PRESENTATION BY STUDENTS

1. **Ahiry Ghosal, Shramona Chakraborty**, presented a paper in the 2<sup>nd</sup> International Conference on “**Advances in Mechanical engineering and its Interdisciplinary Areas**”, CEM-Kolaghat during 2<sup>nd</sup> -4<sup>th</sup> January, 2015.
2. **Tanya Singh, Swati Agarwal, Rishabh Kumar & Arijit Sarkar** presented a Paper on “Proposed utilization of Non Invasive BCI for A Socially Challenged Individual” at Academic Meet 2015 organised by FOSET on 26<sup>th</sup> April 2015.
3. **Shramona Chakraborty (CSE 2<sup>nd</sup> yr), Sumanta Laha (ME 2<sup>nd</sup> yr), Suvanjan Bhattacharyya**, “**Numerical Investigation of Drag and Lift Forces on Turbulent Flow on an Airfoil Shaped Body at Different Angles of Attack**”, Journal of Aerospace Engineering and Technology, Volume- 4, Issue-3, pp- 1-7, Nov’ 14.
4. **Suman Chandra (ME 4<sup>TH</sup> YR), Sumanta Laha (ME 2<sup>nd</sup> yr), Subham Saha (CSE 2<sup>nd</sup> yr), Debdeep Chatterjee (ME 2<sup>ND</sup> YR)**, Suvanjan Bhattacharyya , “**Design and fabrication of a Solar Power Unmanned Aerial Vehicle**”, International Journal of Mechanical and Production Engineering, Volume- 2, Issue-11, pp – 52 – 56, Nov’ 14.
5. **Pronoy Roy (ME 4<sup>TH</sup> YR), Saurabh Biswas (ME 4<sup>th</sup> yr), Rajosik Adak (ME 4<sup>th</sup> yr)**, Suvanjan Bhattacharyya, “**Performance Assessment in a Heat exchanger in laminar channel flow with single twist twisted tape inserts**” NIT-MTMI Int. Conf. on Emerging Paradigms & Practices in Global Technology, Management and Business Issues, National Institute of Technology, Hamirpur. Dec-22<sup>nd</sup> -24<sup>th</sup> 2014, pp – 452-457.

Following papers published in the International Conference on Computing, Communication & Manufacturing 2014 (ICCCM 2014), held at MCKVIE during 22<sup>nd</sup>-23<sup>rd</sup> December 2014: –

1. **Supratik Pal, Devamalya Hazra, Kaustabh Datta Choudhury**, “Study of processors & their efficiency”, pp. 53 – 60, SearchDL ID:02.ICCCM.2014.1.52.
2. **T. Samanta, R. Biswas, A.S. Kuar, S. Mitra**, “Comparative Study of Hole Taper in Nd:YAG Laser Micro-drilling of Advanced Engineering Materials”, pp-307-313, SearchDL ID: 02.ICCCM.2014.1.313.
3. Pranab Kumar Karmakar, Manabendra Maiti, **Sohel Mallick**, Soham Lodh, “Radiosonde Estimation of Attenuation in the Microwave Water Vapour Band over a Southern Latitude”, pp. 214-217, SearchDL ID: 02.ICCCM.2014.1.70.
4. **Suman Chandra (ME 4<sup>TH</sup> YR)**, Suvanjan Bhattacharyya, “**The application of self-tuning PID controller in a slider–crank mechanism system**”, pp – 280-286, SearchDL ID: 02.ICCCM.2014.1.21.
5. **Debdeep Chatterjee (ME 2<sup>ND</sup> YR), Srijan Paul (ME 2<sup>ND</sup> YR)**, Suvanjan Bhattacharyya, “**Automatic Moulding plant based on Kunkel Wagner Technology**”, pp – 292-299, SearchDL ID: 02.ICCCM.2014.1.61.

6. **Abhirup Patra**, Chandranath Chatterjee , Rajarshi Sanyal, “UWB Microstrip-Fed Monopole Antenna With Single And Dual Band Notch Characteristics”, pp. 274-279, SearchDL ID: 02.ICCCM.2014.1.97.
7. Pompee Saikia, **Abhirup Patra**, Sekhar Rana, Rajarshi Sanyal, Amlan Karmakar, “Broadband Microstrip Antenna with Ring Ground Plane”, pp. 148-154, SearchDL ID: 02.ICCCM.2014.1.31.
8. Chandranath Chatterjee, **Rahul Pandit**, Abhirup Patra, Sekhar Rana, Sudarshan Chakravorty, Rajarshi Sanyal, “Dual Feed Circularly Polarized Microstrip Antenna in C band and X band with High Isolation”, pp. 155-161, SearchDL ID: 02.ICCCM.2014.1.32.
9. **Ayindrila Ganguly**, Sagar Mukherjee,” Implementation of Low Power 3-bit Flash ADC Using Tunable Double Gate MOSFET”, International Journal of Advanced Engineering and Global Technology (IJAEGT), vol. 3, Issue 5, May 2015, ISSN: 2309 – 4893.
10. **Saptarni Rudra**, Kalyan Biswas, “Design and Simulation of MEMS Based Humidity Sensor”, International Journal of Advanced Engineering and Global Technology (IJAEGT), vol. 3, Issue 6, June 2015, ISSN: 2309 – 4893.
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## STUDENTS' PROJECTS

### Smart Irrigation System

Huge amount of water gets wasted in agricultural fields due to many reasons. Over the years different means of irrigation has evolved to minimise this wastage of water in agricultural lands. However, one of the major problem that still remains, leading to wastage of water, is the lack of proper knowledge of the farmers about the soil moisture content, and hence the requirement of the amount of water in the agricultural soil.

So considering the concern of water wastage, students of MCKVIE have come up with the idea of **a Smart Irrigation system** that not only minimises the wastage of water in agricultural fields but also reduces farmer's intervention in irrigation. In this project resistive soil moisture sensors are placed deep inside the soil at different parts of the agricultural fields that checks the moisture content of the soil instantaneously. These sensors returns a value based on the soil moisture content to an Arduino device which in turn operates the pump. When the soil gets adequate amount of water, the system switches off the pump.

Team : Rahul Roy, Tuheli Bhattacharya, Sumit Saha (3<sup>rd</sup> Year - CSE Dept.)  
Faculty Co-ordinator: Ajay Ghosal, ECE Dept.

### Virtual Dressing Room

Students of MCKVIE have created a 'virtual dressing room' for consumers using 3D imaging and kinect sensors. The software allows people to try apparel virtually by simply standing in front of a specially created mirror that can map a person's physical attributes.

Although the software is still in its developing stage, the duo hopes it will be launched in the market shortly. The two are also confident about the viability for commercial usage. It will save a lot of time and avoid standing in queue to check the suitability of the clothes in a conventional trial room in a shop or a mall. Also this technology will make women feel secure while trying out clothes at the stores.

MCKVIE students are mainly aiming the online shopping space using this technology. In recent years, while the online apparel market has grown in size, their main problem remains unsatisfied customers, who often return their purchase owing to size and fitting issues.

Team : Debjyoti Dey and Dipankar Sinha, 3<sup>rd</sup> year CSE Dept.  
Faculty In-charge : Subroto S. Thakur, CSE Dept.

## **Smart 'O' Scope**

A compact and intelligent device named **Smart 'O' Scope** is designed and proto-type built by **Mr. Shiladitya Ghosh & Ms. Pamela Bera** both final year students of MCKV Institute of Engineering (MCKVIE). This single device has three functions like Multimeter, Oscilloscope and Function Generator to perform. It is a student edition low cost scope which will help the students to use three functions at the designed and testing stage of their product for cutting short of developing time.

MCKVIE students presented this device in Rotary Innovation Festival - 2016 held at BITM, Kolkata on 11th June, 2016 wherein they were awarded Second Prize in the Category B Section out of 17 teams contested and received a Prize of Rs.2000/-.

Team : Mr. Shiladitya Ghosh & Ms. Pamela Bera  
Faculty In-charge :

## **Wheel Chair on Power**

This project focuses on solving the problem of moving around by the handicapped people which will be able to assist them in their day-to-day activities. The system incorporates modern advanced technology along with inventive design to address the issue with an affordable cost. It is only focused on providing basic features like stair climbing in a manner which will be easy to use by the disabled person without any external help.

Primary feature of the prototype is stair climbing which can move smoothly and also climb the stairs easily. During stair climbing, the wheelchair is in an inclined position. This may cause difficulties for the user. To avoid this, an automatic height adjusting mechanism has been used in the main wheel chair so that at the time of stair climbing it automatically keeps the system horizontal to the ground. Another important feature is the gesture control which is provided by an accelerometer device based transmitter fitted on the user's head.

Team : Sumanta Laha, Debdeep Chatterjee (both 3<sup>rd</sup> year ME Dept.) and Shramona Chakraborty (3<sup>rd</sup> year CSE Dept.)

Faculty Incharge : Suvanjan Bhattacharjee, ME Dept.

**ANNEXURE - XXIII**

**CHAIRMAN'S REWARD FOR THE YEAR 2014-15**

| <b>Sl.</b>   | <b>Name</b>                  | <b>Details</b>           | <b>Amt.</b>  |
|--------------|------------------------------|--------------------------|--------------|
| 1            | Prof. (Dr.) Arun Kumar Jalan | For Publication of Book  | 2500         |
| 2            | Mr. Utpal Sarkar             | For Publication of Book  | 2500         |
| 3            | Dr. Dipankar Ghosh           | For Publication of Paper | 2500         |
| 4            | Dr. Sudipto Chaki            | For Publication of Paper | 2500         |
| 5            | Mr. Kalyan Biswas            | For Publication of Paper | 2500         |
| 6            | Mr. Rajarshi Sanyal          | For Publication of Paper | 2500         |
| 7            | Ms. Nabamita Banerjee Roy    | For Publication of Paper | 2500         |
| <b>Total</b> |                              |                          | <b>17500</b> |

## ANNEXURE - XXIV

## DETAILS OF IRG FOR THE F/Y 2014-15

| S.N              | EXAM           | INFLOW          | OUTFLOW         | BAL             |
|------------------|----------------|-----------------|-----------------|-----------------|
| 1                | WBUT DEC13     | 73,538          | 53,212          | 20,326          |
| 2                | WBUT MAY14     | 71,393          | 52,513          | 18,880          |
| 3                | JEXPO          | 26,800          | 21,910          | 4,890           |
| 4                | JOINT MEDICAL  | 1,79,000        | 1,07,200        | 71,800          |
| 5                | WBJEE          | 57,400          | 43,500          | 13,900          |
| 6                | ATTEST         | 44,100          | 16,405          | 27,695          |
| 7                | JENPARH        | 16,000          | 13,390          | 2,610           |
| 8                | IET            | 3,000           | 1,800           | 1,200           |
| 9                | IET            | 6,000           | 3,600           | 2,400           |
| 11               | NSEIT          | 16,000          | 3,500           | 12,500          |
| 13               | PGET           | 6,000           | 3,600           | 2,400           |
| 14               | GATE           | 44,250          | 26,300          | 17,950          |
| 15               | TCS            |                 |                 |                 |
|                  |                | 9,200           | 0               | 9,200           |
|                  |                | 7,050           | 7,050           | 0               |
|                  |                | 8,240           | 0               | 8,240           |
|                  |                | 7,050           | 7,050           | 0               |
|                  |                | 20,000          | 9,300           | 10,700          |
|                  |                | 8,000           | 0               | 8,000           |
|                  |                | 7,050           | 7,050           | 0               |
|                  |                | 10,000          | 0               | 10,000          |
|                  |                | 99,360          | 0               | 99,360          |
|                  |                | 12,000          | 11,319          | 681             |
|                  |                | 41,800          | 41,800          | 0               |
|                  |                | 41,800          | 32,200          | 9,600           |
| 16               | SMS ENTERPRISE | 6,480           | 0               | 6,480           |
|                  |                | 2,650           | 2,650           | 0               |
|                  |                | 500             | 456             | 44              |
|                  |                | 6,480           | 0               | 6,480           |
|                  |                | 2,650           | 2,650           | 0               |
|                  |                | 500             | 370             | 130             |
|                  |                | 6,480           | 0               | 6,480           |
|                  |                | 1,900           | 1,900           | 0               |
|                  |                | 500             | 305             | 195             |
|                  |                | 3,240           | 0               | 3,240           |
|                  |                | 1,800           | 1,800           | 0               |
|                  |                | 200             | 125             | 75              |
|                  |                | 6,240           | 0               | 6,240           |
|                  |                | 3,600           | 3,600           | 0               |
|                  |                | 400             | 250             | 150             |
|                  |                | 6,720           | 0               | 6,720           |
|                  |                | 2,000           | 2,000           | 0               |
|                  |                | 100             | 59              | 41              |
|                  |                | 6,720           | 0               | 6,720           |
|                  |                | 2,000           | 2,000           | 0               |
|                  |                | 100             | 55              | 45              |
|                  |                | 6,720           | 0               | 6,720           |
|                  |                | 2,000           | 2,000           | 0               |
|                  |                | 100             | 60              | 40              |
|                  |                | 12,060          | 0               | 12,060          |
|                  |                | 5,700           | 5,700           | 0               |
|                  |                | 300             | 278             | 22              |
|                  |                | 14,640          | 0               | 14,640          |
|                  |                | 1,950           | 1,950           | 0               |
|                  |                | 100             | 95              | 5               |
| 17               | TOEFL          | 27,848          | 2,793           | 25,055          |
| <b>TOTAL AMT</b> |                | <b>9,47,709</b> | <b>4,93,795</b> | <b>4,53,914</b> |