

**TECHNICAL EDUCATION QUALITY IMPROVEMENT
PROGRAMME, PHASE II**

**SUB COMPONENT 1.1: STRENGTHENING INSTITUTIONS TO IMPROVE
LEARNING OUTCOMES AND EMPLOYABILITY OF GRADUATES**

6TH MEETING OF THE BOARD OF GOVERNORS

DETAILED AGENDA NOTES

Date **29-07-2013**

Time **9.30 a.m**

Venue **Conference room, GEC Kozhikode**



GOVERNMENT ENGINEERING COLLEGE KOZHICODE

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Background:

This 6th meeting of the BoG is a regular meeting and is being convened to monitor the progress of the implementation of the TEQIP-II activities at GEC Calicut, under Sub component 1.1, with particular emphasis to the academic activities, and to accord the necessary approvals and clearance for the ongoing activities as required in the implementation guidelines of the scheme.

The agenda items are given below

Agenda Items

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Part A

Procedural Items

A1. Confirmation of the Minutes of the 5th Meeting of the Board of Governors held on 26-03-2013 at GEC Calicut

The Minutes of the 5th Meeting of the Board of Governors of the TEQIP Phase II of GEC Calicut held on 26-03-13at GEC Calicutwas sent to the Chairman and upon his consent copies were circulated among the other members of the BoG.

BoG may consider the Minutes for approval.

Part B
Status Reports

B1. The status of fund position as on 25.07.2013

| Sl. No | Head of Activity/Category of Expenditure | Amount Spent Rs. |
|--------------|--|---------------------|
| 1 | Improvement in teaching, training and learning facilities | 1,61,78,235 |
| 2 | Providing Assistantship for increased enrolment in existing and new PG | 10,93,109 |
| 3 | Enhancement of R&D and Institutional Consultancy activities | 67,949 |
| 4 | Faculty and Staff Development (FSD) | 24,59,297 |
| 5 | Enhanced Interaction with Industry | 6,43,305 |
| 6 | Institutional Management Capacity Enhancement | 3,37,080 |
| 7 | Implementation of Institutional Reforms | 10,72,074 |
| 8 | Academic Support for weak students | 5,05,860 |
| 9 | Incremental Operating Cost | 6,73,741 |
| TOTAL | | 2,30,30,650 |

B2. Status of the new PG/UG programs as on 25-07-2013

| S.No. | Name of the program | Current Status |
|-------|---|--|
| 1 | Computer aided process design (Chemical Engineering Department) | This program has commenced during the academic year 2011-12 with an intake of 18 students. |
| 2 | M. Tech in Energy Systems- Analysis and design (Mechanical Engineering Department) | This program has commenced during the academic year 2012-13 with an intake of 18. |
| 3 | M. Tech in Signal Processing (Applied Electronics Department) | This program has commenced during the academic year 2012-13 with an intake of 18 students. |

B3. The status of faculty position as on 25-07-2013

| Electrical and Electronics Department | | | | |
|--|-----------------|----------------|--------------|---------------------------------|
| | Sanctioned Nos. | Available Nos. | Vacancy Nos. | Qualification |
| Associate Professor | 1 | 1 | 0 | 1 Ph.D. |
| Assistant Professor | 2 | 2 | 0 | 2 M. Tech |
| Applied Electronics Department | | | | |
| | Sanctioned Nos. | Available Nos. | Vacancy Nos. | Qualification |
| Professor | 1 | 1 | 0 | 1 Ph.D. |
| Associate Professor | 3 | 2 | 1 | 2 M. Tech |
| Assistant Professor | 9 | 8 | 1 | 6 M. Tech, 2 B. Tech |
| Contract Faculty | | 5 | | 3 B. Tech, 2 M. Tech |
| Chemical Engineering Department | | | | |
| | Sanctioned Nos. | Available Nos. | Vacancy Nos. | Qualification |
| Professor | 2 | 1 | 1 | 1 Ph.D. |
| Associate Professor | 4 | 2 | 2 | 1 Ph.D., 1 M. Tech |
| Assistant Professor | 9 | 8 | 1 | 1 Ph.D., 7 M. Tech |
| Contract Faculty | | 4 | | 1 M. Tech, 3 B. Tech |
| Mechanical Engineering Department | | | | |
| | Sanctioned Nos. | Available Nos. | Vacancy Nos. | Qualification |
| Professor | 1 | 1 | 0 | 1 M. Tech |
| Associate Professor | 4 | 3 | 1 | 3 Ph.D. |
| Assistant Professor | 9 | 9 | 0 | 1 Ph.D. 7 M. Tech, 1 B. Tech |
| Contract Faculty | | 5 | | 3 B. Tech, 2 M. Tech |
| Civil Engineering Department | | | | |
| | Sanctioned Nos. | Available Nos. | Vacancy Nos. | Qualification |
| Professor | 1 | 1 | 0 | 1 M. Tech |
| Associate Professor | 3 | 1 | 2 | 1 M. Tech |
| Assistant Professor | 9 | 5 | 4 | 1 Ph. D., 4 M. Tech |
| Contract Faculty | | 5 | | 4 B. Tech, 1 M. Tech |
| Applied Science Department | | | | |
| | Sanctioned Nos. | Available Nos. | Vacancy Nos. | Qualification |
| Assistant Professor | 8 | 8 | 0 | 4 Ph.D., 4 M. Sc. |

Part C

Items for Discussion, Consideration and Approvals

C1 Improvement in teaching, training, and learning Facilities.

C1. I. Progress report of procurement activities

| Procurement Status as on 25-07-2013 | | | | | | |
|-------------------------------------|-----------------------|---------------------------|---------------------------------|--------------------------|----------------|-----------------|
| Name of the Department | Total No. of Packages | No. of Completed packages | Amount of completed packages(₹) | Payment pending packages | Amount (₹) | Total (₹) |
| Applied Electronics | 31 | 16 | 6126591.00 | 5 | 2008936 | 8135527 |
| Applied Science | 5 | 3 | 291936.00 | 2 | 510456 | 802392 |
| Chemical Engineering | 17 | 9 | 2744690.00 | 0 | 0 | 2744690 |
| Civil Engineering | 22 | 3 | 663286.00 | 8 | 4689395 | 5352681 |
| Mechanical Engineering | 23 | 13 | 6351733.00 | 3 | 904875 | 7256608 |
| Total | 98 | 44 | 16178236.00 | 18 | 8113662 | 24291898 |

The remaining packages have been initiated and expected to complete the procurement activities by December 2013.

C1. II. Ratification of the cancelled procurement package

| Cancelled Package | | | | | |
|-------------------|---------------------|------------------------------|------------------|-------------------------------|--|
| S. No | Name of the Package | Items in the package | Quantity (Total) | Total actual Package amount ₹ | Reason for Cancellation |
| 1 | Biomass Gasifier | Biomass Gasifier test set up | 1 | 4,50,000 | Lack of sufficient responsive vendors. <u>Remedial action:</u> To revise the package and re-tender. |

Decision needed: The board may kindly ratify.

C1. III. Ratification of newly created procurement packages

| S. No | Name of the package | Items | Quantity Nos. | Amount ₹ | Department |
|-------|--------------------------|--------------------------|---------------|----------|---|
| | Bench desk | Bench | 50 | 7,74,000 | Institution Level procurement |
| | | Desk | 50 | | |
| | | Wooden Rack | 2 | | |
| | | Work table | 9 | | |
| 2 | Workstation | Workstation | 6 | 7,80,000 | Simulation lab of AEDept |
| 3 | Desktop Computer | Desktop Computers | 20 | 9,00,000 | AEDept – For use of students at Labs for PC based experiments |
| 4 | Laptop Network Rack | Laptop | 5 | 3,00,000 | AEDept - For use of students for project works |
| | | Server Rack | 1 | | |
| 5 | Rebar Detection System | Rebar Detection System | 1 | 7,50,000 | MT lab of CE Dept |
| 6 | Consolidometer | Consolidometer | 1 | 1,00,000 | GE lab of CE Dept |
| 7 | Corrosion Analyser | Corrosion Analyser | 1 | 4,00,000 | MT lab of CE Dept |
| 8 | Direct Shear Apparatus | Direct Shear Apparatus | 1 | 2,00,000 | GE lab of CE Dept |
| 9 | Computer Chair | Computer Chair | 25 | 1,25,000 | Simulation Lab of CH Dept. |
| 10 | Multi parameter Analyser | Multi parameter Analyser | 1 | 9,00,000 | For use at CH Dept. for students |
| 11 | Drawing Furniture | Drawing Table | 50 | 7,00,000 | for the use at drawing halls for students |
| | | Drawing Board | 50 | | |
| | | Stool | 50 | | |

Decision needed: The board may kindly ratify.

C1. IV. Consideration of new procurement proposals

| Institution Level | | | | | | |
|-------------------------------|--------------------------------|---|------------------------|-------------------------------|--|---|
| SNo | Name of the Package | Items in the package | Quantity (Total) | Total actual Package amount ₹ | If institutional Purchase, give department share | Name of the laboratory for which items procured |
| 1 | Desktop & All-in-one Computers | Desktop computers All-in-one Computer | 15 3 | 8,40,000 | To be installed in CCF | CCF |
| 2 | Online UPS - 3kVA | UPS & Battery | 1 | 2,00,000 | To be installed in CCF | CCF |
| 3 | Server Computer | Server | 1 | 8,00,000 | To be installed in CCF | CCF |
| Mechanical Engineering | | | | | | |
| 1 | Biomass Gasifier | Biomass Gasifier test set up | 1 | 6,50,000 | | PG Lab/Class of ME dept |
| Chemical Engineering | | | | | | |
| 1 | Vacuum Filtration Set up | Vacuum Filtration Magnetic Stirrer pH meter Electronic Balance | One each and 2 balance | 2,05,000 | | Ch.E Dept. |

Decision needed:The board may consider and grant necessary approval

C2.Providing Teaching and Research Assistantships to increase enrolment in existing and new PG programs in Engineering Disciplines

Background

The Project will fund only those new(started latest during the calendar year 2011) and existing PG programmes that are AICTE. Institutions receiving funds under the TEQIP Project are encouraged to seek enhancement of Masters Degree seats from AICTE so as to increase the enrolment in PG programmes

C2.I. Teaching and Research Assistantships up to June 2013

| S. No. | Name of the M. Tech program | Year of Commencement | No. of Non GATE students supported by TEQIP- II | Expenditure under TEQIP till date ₹ |
|--------|-------------------------------------|----------------------|---|--|
| 1 | Computer aided process design | August 2011 | 13 | 6, 35,400 |
| 2 | Energy Systems- Analysis and design | August 2012 | 7 | 4,57,709 |
| Total | | | | 10,93,109 |

C3. Enhancement of R&D and institutional consultancy activities

Background

The objective is to promote increased participation of faculty in research, projects and consultancy. The faculties who have expertise should be encouraged to take up consultancy assignments, which would directly and indirectly benefit the institution, faculty and students.

Hence for improving R &D and consultancy activities, as per the directions from NPIU, **05th Meeting of the State Steering Committee held on 11th April 2013** decided to permit the project institutions to appoint a Senior Research Advisor. The specific deliverables of the SRA are the following

1. Deliver talks on Research Methodology to PG students and PhD aspirants of the Project Institutions
2. Motivate the PhD holders in the Institution to enroll as Research Guides in the concerned universities, abiding by the university requirements in this regard.
3. Motivate the Institution to become an approved centre of research of the university concerned.
4. Guide in house seminars on one Research Topic each by the PG students as well as PhD aspirants and make assessments regarding the suitability of the Research Topics and offer guidance on future course of action.
5. Offer Tools regarding Searching & Downloading of literature the SRA.
6. Offer guidance on Thesis Writing including compiling and Reference Writing, Paper Publication and Poster Preparation. He may also offer awareness on Citation Index and Impact Factor
7. Suggest talks by other experts in the above areas including Research ethics avoiding Research misconduct.
8. Regarding consultancy it is pertinent that Project Institutions should have the required facility and in house expertise. The

SRA will motivate the Institutions by developing at least one area of expertise and consultancy during the project period.

9. Regarding patenting the SRA may motivate the Institution on the laws related to National and International patenting. He/She may help the Institutions in arranging talks by patent law attorney on Process Patenting and Product Patenting.
10. The SRA will also motivate the Project Institutions in holding Seminars on promotion of Research and Consultancy in which R&D and Quality Group Engineers from Industries as well as Stakeholder Departments participate.
11. The SRA may also guide the Institutions in organizing Conferences/Seminars/Workshops/Exhibitions on R&D and IIC.

Each of the Project Institution shall be permitted to engage one SRA by paying a per day honorarium of Rs. 5000/- apart from meeting the TA/DA as per the G.O. (Rt) No. 2113/2012/H.Edn dated, 04.10.2012. Also as per letter from Central Project Advisor (CPA), No: AC/TEQIP-II/R&D/States 1.1/2013 dated February 28, 2013, decided in the meeting held with CFIs on 26.02.2013 during the ongoing 1st Joint Review Mission that the Government and Government aided institutions under sub-component 1.1 can appoint retired teachers from IITs/NITs/other reputed institutions as **Senior Research Advisor** for enhancement of Research and Development activities based on the institutional requirement. The appointment and the terms & conditions of appointment shall be approved by the BoG or competent authority of the institution as per norms of the institution. The appointment shall be made till the duration of the project. The expenditure towards salary etc. can be booked under R&D head of expenditure or Incremental Operating Cost.

Also as per the Minutes of the Review of Progress of TEQIP II in the Project Institutions of Kerala, held from 29th January to 4th February 2013, in the presence of Mentors, DTE and SPFU Officials, it was decided that for promoting Research Initiatives of faculty members under R&D, with the approval of the BoG, the Project Institutions may invite applications for one time Seed Money as Research Assistance. The guidelines are given below,

1. The period of research shall be maximum one year.

2. The Institutions with the involvement of Senior Scientists from outside shall constitute a Research Guidance Committee (RGC).
3. The RGC shall device a format for inviting applications from eligible faculty, with in a dead line fixed for the same.
4. The maximum amount permissible for the Research Assistance, eligibility, terms and conditions etc shall also be finalized by the RGC.
5. The filled in applications shall be evaluated and the candidates screened if necessary by the RGC in the presence of the Senior Scientists.
6. Case by case the RGC will decide the maximum amount permissible to each Principal Investigator, citing terms and conditions like insistence of quarterly Progress Reports, Continuation of the Research Project, Continuing Funding etc.
7. The monitoring and evaluation of the research shall also be carried out by the RGC. It was decided that the SRA will be the Chairperson of the RGC.
8. Procurement of consumables and components and expenses regarding service charges shall be booked under seed money which may be a maximum of Rs. 2 Lakh per Chief Investigator, released under R&D. The eligibility of the seed money will also be extended to Research Scholars of the Project Institution.

C3. I. Discussion on the appointment of Senior Research Assistant (SRA) as per the direction from NPIU

Decision needed:The board may give suggestions for the appointment of SRA and may give guidelines for improving R&D activities.

C4. Faculty and Staff development for improved competence

Background

Faculty and staff development should be closely linked to the overall goals of the institution as also fulfill individuals justifiable professional aspirations. Institutions should plan to spend at least 10% institutional project outlay on faculty and staff development.

C4. I. Progress report of Faculty and staff development

Details of in house training programs/Conferences/Workshops conducted under FSD from April 2013 – July 2013

1. Chemical Engineering Department

| Sl. No | Name of the program | Date and duration of the program | Expenditure Rs. | Whether Ratification of BOG required? (Yes/No) |
|--------|----------------------|----------------------------------|-----------------|--|
| 1 | Research Methodology | 24-28 Jun 2013, 5 Days | 111841 | Yes |

2. Applied Science Department

| Sl. No | Name of the program | Date and duration of the program | Expenditure Rs. | Whether Ratification of BOG required? (Yes/No) |
|--------|--|----------------------------------|-----------------|--|
| 1 | Three day National Seminar on Recent Trends in Applied Science with Engineering Applications | 27-29 June 2013 Three Days | 128000 | Yes. |

Details of training programs attended by Faculty/Staff (outside the institution) under FSD from April 2013 – July 2013

1. Chemical Engineering Department

| Sl. No | Name of the program and Venue/Organizing institution | Name of the Staff with designation | Date and duration of the program | Expenditure Rs. | Whether Ratification of BOG required? (Yes/No) |
|--------|--|------------------------------------|----------------------------------|-----------------|--|
|--------|--|------------------------------------|----------------------------------|-----------------|--|

| | | | | | |
|---|--|---|------------------------------|------------------------------|-----|
| 1 | Piping Engineering, IIT Bombay | SubinPoulose, Assistant Professor | 6-17 May 2013, 10 days | 88206 | No |
| 2 | On job training for field engineers on flowmeters&calibration Techniques, FCRI, Palakkad | Ali Akbar ET, Instructor Gr II, Sujith E, &Bijoy M, Trade Instructors | 8-12 Jul 2013, 5 days | 120000 (to be settled) | Yes |
| 3 | Industrial Awareness and orientation course at FACT (IIIC) | 8 Faculty +5 Technical staff | 22-24 Apr 2013, 3 days | 86334/- | No |

2. Applied Science Department

| Sl. No | Name of the program and Venue/Organizing institution | Name of the Staff with designation | Date and duration of the program | Expenditure Rs. | Whether Ratification of BOG required? (Yes/No) |
|--------|--|---|--|-----------------|--|
| 1 | FDP on Green Chemistry NIT Calicut | Mrs. Sangeetha C. Assistant Professor of Chemistry | 17.06.2013 to 21.06.2013 Five Days | Nil | No |
| 2 | FDP on Embedded System Design | Mrs. Sangeetha C. Assistant Professor of Chemistry | 15.07.2013 to 19.07.2013 Five Days | Nil | No |

3. Civil Engineering Department

| Sl.No | Name of the program and Venue/Organizing institution | Name of the Staff with designation | Date and duration of the program | Expenditure Rs. | Whether Ratification of BOG required? (Yes/No) |
|-------|--|---|--|-----------------|--|
| 1 | “Destructive and Non destructive Testing Methods for Civil Engineering Materials and Structures” At Engineering Staff | Rahmathulla Noufal E., Asst. Professor in Civil Engineering | 16 th to 19 th April 2013 (4 Days) | 23,600/- | No |
| | | Vinod P. C., Trade Instructor | 16 th to 19 th April 2013 (4 Days) | 21,274/- | No |

| | | | | | |
|----|---|--|--|----------|-----|
| | College of India (ESCI), Hyderabad | Satheesan A., Trade Instructor | 16 th to 19 th April 2013 (4 Days) | 21,274/- | No |
| 2. | “Finite Element Method and Applications in Civil Engineering” At IIT Bombay | Dr. K. M. Kouzer, Asst. Professor in Civil Engineering | 1 st to 5 th July 2013 | 30,000/- | Yes |

4. Applied Electronics & Instrumentation Department

| Sl.No | Name of the program and Venue/Organizing institution | Name of the Staff with designation | Date and duration of the program | Expenditure Rs. | Whether Ratification of BOG required? (Yes/No) |
|-------|---|--|----------------------------------|-----------------|--|
| 1 | System Design using DSP and microprocessors, NIELIT Calicut | 1. Shajeemohan B S, Associate Prof.ECE 2. Abdul Saleem P K, Asst.Prof.EEE 3. Abdu Rahiman V, Asst.Prof.ECE 4. Shanthini K S, Asst.Prof.ECE 5. Sujith Kumar T P, Asst.Prof.ECE 6. Jithesh C P, Asst.Prof ECE | 8-14 April 2013 (5 days) | Rs.75000 | No |
| 2 | Mathematical modeling and Analysis of Systems, GEC Thrissur | Asokan O V, Asst. Professor EEE | 10-14 June 2013 (5 days) | Rs.6250 | Yes |
| 3 | Linux Server Administration Phase-1, GEC Wayanad | AbidTharavattath, Computer Programmer (HG) | 24-28 June 2013 (5 days) | Rs.5000 | Yes |
| 4 | Computer Forensic Tools and Techniques, Engineering Staff College of India, Hyderabad | Shanu M P, Tradesman Computer | 27-29 June 2013 (3 days) | Rs.22500 | Yes |

5. Mechanical Engineering Department

| Sl.No | Name of the program and Venue/Organizing institution | Name of the Staff with designation | Date and duration of the program | Expenditure Rs. | Whether Ratification of BOG required? (Yes/No) |
|-------|--|------------------------------------|----------------------------------|-----------------|--|
| 1 | Structural Vibration Control, GCE Kannur | Najeeb K., Asst. Professor | 10.06.2013 – 15.06.2013, 6 days | 3,600 | Yes |
| 2 | Structural Vibration Control, GCE Kannur | Saijal K. K., Asst. Professor | 10.06.2013 – 15.06.2013, 6 days | 3,600 | Yes |

Details of the Conferences/workshops attended by Faculty/Staff (outside the institution) under FSD from April 2013 – July 2013

1. Civil Engineering Department

| Sl.No | Name of the program and Venue/Organizing institution | Name of the Staff with designation | Date and duration of the program | Expenditure Rs. | Whether Ratification of BOG required? (Yes/No) |
|-------|--|------------------------------------|---|-----------------|--|
| 1 | “Urban Freight Transport : A Global Perspective” At IIT Madras | Ansu V. | 24 th and 25 th June 2013 | 6500.00 | Yes |

2. Applied Electronics& Instrumentation Department

| Sl.No | Name of the program and Venue/Organizing institution | Name of the Staff with designation | Date and duration of the program | Expenditure Rs. | Whether Ratification of BOG required? (Yes/No) |
|-------|---|--------------------------------------|----------------------------------|-----------------|--|
| 1 | 1 st Indian Workshop on Machine Learning (iWML2013) IIT Kanpur | Shajee Mohan B S, Associate Prof.ECE | 1-3 July 2013 (3 days) | Rs.20000 | Yes |

3. Mechanical Engineering Department

| Sl.No | Name of the program and Venue/Organizing institution | Name of the Staff with designation | Date and duration of the program | Expenditure Rs. | Whether Ratification of BOG required? (Yes/No) |
|-------|---|------------------------------------|----------------------------------|-----------------|--|
| 1 | Global Engineering, Science and Technology Conference, Dubai, Global Institute of | Sajeeb A. M., Asst. Professor | 01.04.2013 – 02.04.2013, 2 days | 1,37,000 | Yes |

| | | | | | |
|---|---|-------------------------------|---------------------------------|----------|-----|
| | Science and Technology, Australia | | | | |
| 2 | Global Engineering, Science and Technology Conference, Dubai, Global Institute of Science and Technology, Australia | Saijal K. K., Asst. Professor | 01.04.2013 – 02.04.2013, 2 days | 1,37,000 | Yes |
| 3 | International Conference on Mechanics, Simulation and Control (ICMSC 2012) | Sajeeb A. M., Asst. Professor | 22.06.2013 - 23.06.2013, 2 days | 30,200 | No |

Details of the publication details from April 2013 – July 2013

1. Civil Engineering Department

| Sl. No | Title of the paper | Name of the Staff with designation | Name of the Journal/Proceedings | Expenditure | Whether Ratification of BOG required? (Yes/No) |
|--------|---|---|--|-------------|--|
| 1 | “Critical comparison in strength of Tension members (Single angle and double angle) in working stress and limit state method” | Dileep Kumar P. G. & Rahmathulla Noufal E. Asst. Professors in Civil Engineering | National Conference on “New Trends in Structural Engg and Nano composites in Civil Engg.” at Maria College of Engineering and Technology, Kanyakumari, TamilNadu | 15,860/- | No |
| 2, | "Comparison in Strength of I-Section used as Flexural Members by Limit State Method and Working Stress Method” | Rahmathulla Noufal E., Dileepkumar.P. G. and Ammad K. Asst. Professors in Civil Engineering | National Conference on “Recent Trends in Engineering and Technology” at SVS College of Engineering, Coimbatore, Tamilnadu. | Nil | No |
| 3. | “Methodology for development of a seaport: the case study of Kozhikode seaport (India)” | Ansu V. Asst. Professor in Civil Engineering | 19th International Conference on “Urban Transport and the Environment- Urban Transport 2013” at Kos Greece conducted by Wessex Institute of Technology, UK | 2,60,000/- | No |

2. Mechanical Engineering Department

| Sl.No | Title of the paper | Name of the Staff with designation | Name of the Journal/Proceedings | Expenditure Rs. (if any) | Whether Ratification of BOG required? (Yes/No) |
|-------|---|------------------------------------|--|--------------------------|--|
| 1 | Effect of weld speed on stress distribution along plate of Aluminium alloy 6061 – TG using FEM Thermo-Mechanical Simulation | Sajeeb A. M., Asst. Professor | Proceedings of Global Engineering and Technology Conference, 1-2 April 2013, Dubai, UAE, ISBN 9781-1-922069-21-4 | - | No |
| 2 | Optimal placement of trailing edge flaps of Helicopter rotor for various advance ratios | Saijal K. K., Asst. Professor | Proceedings of Global Engineering and Technology Conference, 1-2 April 2013, Dubai, UAE, ISBN 9781-1-922069-21-4 | - | No |
| 3 | Parametric studies on weld penetrability on a plate of Al. alloy 6061T6 using FEM simulation | Sajeeb A. M., Asst. Professor | Proceedings of the International Conference on Mechanics, Simulation and Control (ICMSC 2012) | - | No |
| 4 | Boost port injection of LPG in a 2S – SI Engine for reduction in HC emission | Pradeep V., Associate Professor | Technical Paper SAE 2013 – 01 - 0584 | - | No |

C4. II Details of the proposed in house training programs/Conferences/Workshops under FSD August 2013 –October 2013

1. Chemical engineering Department

| Sl. No | Name of the program | Date and duration of the program | Approximate Expenditure Rs. | Remarks (if any) |
|--------|--|----------------------------------|-----------------------------|-------------------|
| 1 | Renewable and Unconventional energy sources for sustainable future | 22-26 Jul 2013, 5 Days | 150000 | |
| 2 | Engineering applications in Computational fluid dynamics | 13-17 Oct 2013, 5 Days | 150000 | |
| 7 | Piping Design | 11 Oct 2013, 1 Day | 4000 | Expert Lecture |

2. Civil Engineering Department

| Sl.No | Name of the program | Date and duration of the program | Approximate Expenditure Rs. | Remarks (if any) |
|-------|-------------------------------------|---|-----------------------------|-------------------|
| 1 | Seismic Hazard Analysis | 18 th July 2013 | 10,300/- | Expert Lecture |
| 2. | Geotechnical Engineering Challenges | 2 nd to 6 th September 2013 | 2,00,000/- | Short Term Course |

3. Applied Electronics& Instrumentation Department

| Sl.No | Name of the program | Date and duration of the program | Approximate Expenditure Rs. | Remarks (if any) |
|-------|---|----------------------------------|-----------------------------|-------------------------------------|
| 1 | Workshop on Pattern Analysis and Classification | 12-14 Aug 2013 (3 days) | 50000 | <i>HOD will present the details</i> |
| 2 | FDP on Advanced tools for process control and instrumentation | 26-30 Aug 2013 (5 days) | 200000 | |
| 3 | Workshop on Industrial electronics and industrial drives | 9-11 Sep 2013 (3 days) | 200000 | |
| 4 | Workshop on Wireless Communication | 24 Sep 2013 (1 day) | 20000 | |
| 5 | Workshop on Digital | 25-27 Sep 2013 (3 days) | 50000 | |

| | | | | |
|---|---|-------------------------|-------|--|
| | Control System | days) | | |
| 6 | Expert Lecture – DSP Algorithm and Architecture | 11-13 Oct 2013 (3 days) | 50000 | |

4. Mechanical Engineering Department

| Sl.No | Name of the program | Date and duration of the program | Approximate Expenditure Rs. | Remarks (if any) |
|-------|-------------------------------|----------------------------------|-----------------------------|--|
| 1 | Vibration and Modal Analysis | 26.08.2013 – 31.08.2013, 6 days | 2,00,000 | Coordinator Dr. Sreejith B & Prof. Saijal |
| 2 | Solar Power Conversion System | September 2013, 6 days | 2,00,000 | Coordinator Dr. Shaji K & Prof. Saijal K. K. |

6. Details of proposed training programs/Workshops/Conferences outside the institution from August 2013 – October 2013 (Faculty and Staff)

1. Chemical Engineering Department

| Sl. No | Name of the program | Beneficiary details | Date and duration of the program | Approximate Expenditure Rs. |
|--------|---|--|----------------------------------|----------------------------------|
| 1 | 4 th International Conference on Environmental Engineering and Applications ICEEA 2013 | Ushakumary ER, Associate Professor | 24-25 Aug 2013, 2 Days | 135000 |
| 2 | Lead Auditors course on occupational health and safety management systems, BIS chennai | Rejini VO, Professor, Ushakumary ER, Associate Professor, Subin Poulose, Assistant Professor | 2-6 Sep 2013, 5 days | 100000 (Fee- 15000+S.T per head) |
| 3 | Lead auditors course on Food safety Management systems (FSMS) (IS/ISO 22000) , BIS Bangalore | Sindhu N, Mary Lubi, Suma K, Assistant Professors | 23-27 Sep 2013, 5 days | 80000 (Fee- 15000+S.T per head) |

| | | | | |
|---|---|--|------------------------|-------------------------------------|
| 4 | Practical Training on Energy Conservation in pumps and fans, National Productivity Council, Kalamassery | Bijoy M, Trade Instructor. Ali Akbar E T, Instructor Grade II | 7-9 Sept 2013, 3 days | 35000 |
| 5 | API Specification 6A –An Overview, American Petroleum Institute, Coimbatore | Mary Lubi, Suma K, SubinPoulose, Assistant Professor | 7-8 Oct 2013, 2 days | 135000 (Fee-30,000+Tax) |
| 6 | API Pipeline Valve Specifications 6D and 6DSS, American Petroleum Institute, Coimbatore | Mary Lubi, Suma K, SubinPoulose, Assistant Professor | 9-10, Oct 2013, 2 days | 135000 (Fee per head-30,000+Tax) |
| 7 | Waste Management In Textile Industry, Engineers Staff College, Hyderabad | V O Rejini, Professor Ushakumary E R, Associate Professor, SubinPoulose, Assistant Professor | 23-25 Oct 2013, 3 days | 140000 (Fee per head-13500+S.T) |
| 8 | Two week short term course on vacuum technology and process application, IIT Kharagpur | V O Rejini, Professor, Mary Lubi and SubinPoulose, Assistant Professor | 18-27, Nov 2013 | 195000 (Fee per head-22520/-) |

2.Applied science Department

Request for permission – Faculty visiting foreign university as Doctoral student:

| Sl. No | Name of the program | Date and duration of the program | Approximate Expenditure Rs. | Remarks (if any) |
|--------|---|----------------------------------|-----------------------------|---------------------------|
| 1 | Visiting Doctoral Student Trent University, Canada. Prof. Sangeetha, Chemistry dept | September 2013 to March 2014 | 315000 Visa Fee and TA | Needed Approval from BoG. |

3. Civil Engineering Department

| Sl.No | Name of the program and Venue/Organizing institution | Name of the Staff with designation | Date and duration of the program | Expenditure Rs. | Remarks (if any) |
|-------|---|---|---|-----------------|---|
| 1 | “Testing of Civil Engineering Materials – Modern Techniques” At Engineering Staff College of India (ESCI), Hyderabad | Dileep Kumar P. G., Asst. Professor in Civil Engineering | 5 th to 8 th August 2013 (4 Days) | 30,000/- | <i>HOD will present the details</i> |
| 2. | “Advanced Course on Computational Geotechnics” At IIT Madras organized by PlaxisAsiaPacPte Ltd. & Ram Caddsys Pvt. Ltd., Chennai | Dr. K. M. Kouzer, Asst. Professor in Civil Engineering | 18 th to 20 th September 2013 (3 Days) | 30,000/- | |
| 3 | “Slope Stabilization for Highways – Modern and Green Technologies” At Engineering Staff College of India (ESCI), Hyderabad | Prof. A. K. Marakkarutty, Professor in Civil Engineering, Ammad K. K. & Dileep Kumar P. G., | 19 th to 21 st November 2013 | 1,20,000/- | |
| 4 | 2nd Conference of Transportation Research Group of India (CTRG) At Agra In Association with IIT Kanpur, CSIR and Transportation Research Board (USA). | Sreela P. K. Asst. Professor in Civil Engineering | 12 th to 15 th December 2013 | 10,000/- | For Presenting a Paper “Shopping Participation and Duration of Workers in Calicut City” |
| 5 | International Conference on “Energy, Environment and Eco-friendly Buildings” At Jain University, Bangalore Organized by Indian Green | AnjanaSanthakumar Assoc. Professor in Civil Engineering | 19 th to 21 st September 2013 | 10,000/- | For Presenting a paper “Geopolymer Concrete – Energy Efficient and Eco-friendly Concrete” |

| | | | | | |
|--|--|--|--|--|--|
| | Building Council, Hyderabad and Indian National Academy of Engineering, New Delhi | | | | |
|--|--|--|--|--|--|

4. Applied Electronics & Instrumentation Department

| Sl.No | Name of the program and Venue/Organizing institution | Name of the Staff with designation | Date and duration of the program | Expenditure Rs. |
|-------|---|--|----------------------------------|-----------------|
| 1 | International Conference Biotechnology for Innovative Applications, Amrita VishwaVidyaPeetham (Univesity), Quilon | Dr. Abdul Hameed K M, Professor ECE | 10-14 Aug 2013 (5 days) | 12000 |
| 2 | IEEE Global Humanitarian Technology Conference, Technopark TVM | Dr. Abdul Hameed K M, Professor ECE | 23-24 Aug 2013 (2 days) | 15000 |
| 3 | Essentials of FPGA & Designing with verilog, Sandeepani Bangalore | Brijmohan K, Asst. Professor ECE | 9-11 Oct 2013 (3 days) | 25000 |
| 4 | Network security administration, Engineering Staff College of India, Hyderabad | Brijmohan K, Asst. Professor ECE | 21-25 Oct 2013 (5 days) | 35000 |
| 5 | Essentials of FPGA & Designing with verilog, Sandeepani Bangalore | Asokan O V, Asst. Professor EEE | 9-11 Oct 2013 (3 days) | 25000 |
| 6 | Essentials of FPGA & Designing with verilog, Sandeepani Bangalore | Jithesh C P, Asst. Professor ECE | 9-11 Oct 2013 (3 days) | 25000 |
| 7 | Network security administration, Engineering Staff College of India, Hyderabad | Sujith Kumar T P, Asst. Professor ECE | 21-25 Oct 2013 (5 days) | 35000 |
| 8 | Network security administration, Engineering Staff College of India, Hyderabad | Pradeep K Bharathan, Asst. Professor ECE | 21-25 Oct 2013 (5 days) | 35000 |
| 9 | Web Designing using PHP and MySQL, Engineering Staff College of India, Hyderabad | AbidTharavattath, Computer Programmer (HG) | 29-31 Oct 2013 (3 days) | 22500 |
| 10 | MAINTENANCE & SERVICING OF POWER SUPPLIES, INVERTERS AND UPS, ATI Chennai | Anil R, Trade Instructor Electronics | 5-17 Aug 2013 (12 days) | 15000 |

| | | | | |
|----|--|---|--------------------------|-------|
| 11 | MICROPROCESSOR 8085, ATI Hyderabad | Anil R, Trade Instructor Electronics | 2-6 Sep 2013 (5 days) | 20000 |
| 12 | MAINTENANCE & SERVICING OF POWER SUPPLIES, INVERTERS AND UPS, ATI Chennai | Kishore Kumar M T, Trade Instructor Electronics | 5-17 Aug 2013 (12 days) | 15000 |
| 13 | MICROPROCESSOR 8085, ATI Hyderabad | Kishore Kumar M T, Trade Instructor Electronics | 2-6 Sep 2013 (5 days) | 20000 |
| 14 | PLC PROGRAMMING AND ITS APPLICATIONS (DELTA PLC), ATI Chennai | Salma A P, Trade Instructor Electronics | 7-11 Oct 2013 (5 days) | 15000 |
| 15 | Computer Hardware & Networking, Keltron Kozhikode | Shyni M K, Trade Instructor Electronics | 12-27 Aug 2013 (15 days) | 5000 |
| 16 | PLC PROGRAMMING AND ITS APPLICATIONS (DELTA PLC), ATI Chennai | Shyni M K, Trade Instructor Electronics | 7-11 Oct 2013 (5 days) | 15000 |
| 17 | PIC Microcontroller Programming and Application, ATI Hyderabad | Shibu P M, Tradesman EI | 2-6 Sep 2013 (5 days) | 20000 |
| 22 | Computer Hardware & Networking, Keltron Kozhikode | Shibu P M, Tradesman EI | 12-27 Aug 2013 (15 days) | 5000 |
| 23 | PLC PROGRAMMING AND ITS APPLICATIONS (DELTA PLC), ATI Chennai | Shibu P M, Tradesman EI | 7-11 Oct 2013 (5 days) | 15000 |
| 24 | Computer Hardware & Networking, Keltron Kozhikode | Shanu M P, Tradesman Computer | 12-27 Aug 2013 (15 days) | 5000 |
| 25 | Advanced Web Development using Linux, Apache, MySQL, PHP, CDIT CEP, Vadakara | Shanu M P, Tradesman Computer | 7-18 Oct 2013 (10 days) | 25000 |

5.Mechanical Engineering Department

| Sl.No | Name of the program and Venue/Organizing institution | Name of the Staff with designation | Date and duration of the program | Approximate Expenditure Rs. | Whether Approval of BOG required? (Yes/No) |
|-------|--|------------------------------------|----------------------------------|-----------------------------|--|
| 1 | Engine Testing and Calibration, ARAI, Pune | Sajeeb A. M., Asst. Professor | 19.08.2013 – 23.08.2013, 5 days | 46,000 | Yes |
| 2 | Engine Testing and Calibration, ARAI, Pune | Saijal K. K., Asst. Professor | 19.08.2013 – 23.08.2013, 5 days | 46,000 | Yes |
| 3 | Project Management, | Sajeeb A. M., | 05.09.2013 – | 65,000 | Yes |

| | | | | | | |
|----|---|---|---------------------------------|--------|--|-----|
| | NPC | Asst. Professor | 09.09.2013, 5 days | | | |
| 4 | Project Management, NPC | Saijal K. K., Asst. Professor | 05.09.2013 – 09.09.2013, 5 days | 65,000 | | Yes |
| 5 | Workshop on ‘Energy Conservation and ECBCcodes’, CPRI Bangalore | Dr.Sreejith B., Associate Professor | 26.09.2013 – 27.09.2013, 2 days | 25,000 | | Yes |
| 6 | Workshop on ‘Energy Conservation and ECBCcodes’, CPRI Bangalore | Biju I. K., Assistant Professor | 26.09.2013 – 27.09.2013, 2 days | 25,000 | | Yes |
| 7 | Workshop on ‘Energy Conservation and ECBCcodes’, CPRI Bangalore | PrajeethKumar K. P., Assistant Professor | 26.09.2013 – 27.09.2013, 2 days | 25,000 | | Yes |
| 8 | Practical Training on Energy Audit Instruments, NPC, Chennai | Dr.Shaji K., Associate Professor | 21.10.2013 – 22.10.2013, 2 days | 20,000 | | Yes |
| 9 | Practical Training on Energy Audit Instruments, NPC, Chennai | Dr.Sajith P. P. Associate Professor | 21.10.2013 – 22.10.2013, 2 days | 20,000 | | Yes |
| 10 | Practical Training on Energy Audit Instruments, NPC, Chennai | Biju I. K., Associate Professor | 21.10.2013 – 22.10.2013, 2 days | 20,000 | | Yes |
| 11 | Practical Training on Energy Audit Instruments, NPC, Chennai | Prajeeth Kumar K. P., Assistant Professor | 21.10.2013 – 22.10.2013, 2 days | 20,000 | | Yes |
| 12 | Practical Training on Energy Audit Instruments, NPC, Chennai | Dr.Anirudhan P., Associate Professor | 21.10.2013 – 22.10.2013, 2 days | 20,000 | | Yes |

Conference paper titled ‘Numerical Modeling of Annular flow with Phase Change in a Microchannel’ (draft paper) of Prof. Jasseela.S., Assistant Professor, ME department, has been accepted in the ASME Conference **IMECE2013 ,November 15-21, 2013, San Diego, CA, USA**. The acceptance mail, abstract of the paper, expenditure details and the objective in attending the conference are attached in the **Annexure I**.

C5. Enhanced interaction with industry

Background

As per the Project Implementation Plan (PIP) guidelines formed by NPIU, suggested Activities under IIC are

1. To identify and facilitate Guest Lectures, Interactive workshops, conferences, seminars, Brain Storming Sessions, Technical Discussions etc. with Members of the Industry, outside Experts, eminent personalities at regular interval.
2. To conduct Industrial Training, Orientation Courses, Industrial Visits etc for faculty and students at regular intervals.
3. To facilitate joint research work, consultancy involving faculty and students.
4. To conduct industrial exhibitions to highlight research facilities and expertise available with the institution.
5. To facilitate professionals from Industry to work as visiting faculty in institutions and short or long periods deployment of faculty from institutions to Industry for gaining industrial experience and/or work on projects in Industry.
6. To seek and associate Experts from Industry in Curriculum Development and review.
7. To identify Continuing Education opportunities, short-term programmes and training needs of the Industry, which the institution can provide.
8. To promote revenue generating activities for the institution like Lab Testing, Calibration, consultancy and R&D etc.
9. To assess periodically the scientific and technological scenario/ happenings in India and abroad in order to translate it into action for taking up future R&D work.

C5.I. Discussion on IIC activities

As per the above guidelines we have conducted following programs during April to July 2013.

| Sl. No | Name of the program | Beneficiary details | Date and duration of the program | Expenditure Rs. | Whether Ratification of BOG required? (Yes/No) |
|--------|--|---------------------|----------------------------------|-----------------------------|--|
| 1 | ANSYS & FLUENT Computational Softwares Training in INNOVENT – ANSYS, Bangalore | Ten (10) Faculty | May 20-24, 2013 | 1, 50,000/- (Advance drawn) | No. Already approved |

| | | | | | |
|---|---|--------------------------------------|-----------------------------|--------------|----------------------|
| 2 | Staff exposed to Industrial Practices- FACT, Alwaye | 9 Faculty Members, 5 Technical Staff | April 22-24, 2013 | 86,334/- | No. Already approved |
| 3 | Student Training in Industry, Fluid Control research Institute (FCRI), Palakkad | 10 Students | June 17-21, 2013 | 22,470/- | Yes. Needed |
| 4 | Student Training in Industry, BSNL | 25 Students | June 15-29, 2013 | 1, 12, 500/- | Yes. Needed |
| 5 | Invited Talk, from MOVIN Builders (MOU Related) | 45 students | July 4 th , 2013 | 1103/- | Yes. Needed |

Decision needed: The board may ratify the programs conducted under III Cell as per the PIP guidelines.

C5.II. Consideration of new proposals

Under III Cell, the following program is planned in September 2013

| Sl.No | Name of the program | Beneficiary details | Date and duration of the program | Approximate Expenditure Rs. | Remarks (if any) |
|-------|--|--|----------------------------------|-----------------------------|------------------|
| 1 | Workshop on "R&D", featuring Scientists from BARC, ISRO & DRDO | Faculty of the host institution as well as from all engineering colleges in Kerala | September 5-7, 2013 | Rs. 3,00,000/- | Approval awaited |

Decision needed: The board may consider the proposal under III Cell and may give approval.

C6. Institutional Management Capacity Enhancement

Background

Improving Managerial and Administrative abilities of Heads of Institutions, Deans, Heads of Departments, Senior Faculty and officials through specifically designed training programmes is an important Project objective. The expected outcomes are enhanced management capacity, helping the institution to gain increased autonomy, and improved internal and external efficiencies of institutions. The project institution is expected to participate in these programmes.

| Sl. No | Name of the program | Beneficiary details | Date and duration of the program | Approximate Expenditure Rs. | Remarks (if any) |
|--------|--|----------------------------|---|-----------------------------|------------------|
| 1 | Ethics and Values for governance of institutions | Faculty and administrators | 10 th -12 th October 2013 | 80,000.00 | In house program |

| Sl. No | Name of the program and Venue/Organizing institution | Name of the Staff with designation | Date and duration of the program | Approximate Expenditure Rs. | Remarks (if any) |
|--------|---|---|--|-----------------------------|------------------|
| 1 | Team Management, National Productivity Council, | Subin Poulose, Asst. Professor, Chemical Engineering Department | 9-13, Sept 2013, 5 Days | 65000.00 | |
| 2 | Knowledge Management – Practices and Applications, NPC | Rahmathulla Noufal E. Asst. Professor, | 18 th to 22 nd November 2013 | 50,000.00 | |
| 3 | Academic leadership Program at IIM Calicut | Prof. Balasubramanian | 30 th -9 th July 2013 | 1000.00 | |
| 4 | Developing Emotional intelligent Leadership ASCI, Hyderabad | Rahmathulla Noufal E. Asst. Professor, CE Dept. | 14 th to 18 th October 2013 | 50,000.00 | |
| 5 | Team Management, NPC | Prof. Shajeemohan B.S., Associate Professor, ECE | 9-13, Sept 2013, 5 Days | 65000.00 | |

C7. Implementation of Institutional reforms

C7.I. Discussion on progress of accreditation of UG programs

Accreditation of programmes is one of the quality assurance mechanisms. The accreditation target to be achieved by the end of the Second Project-Year is 60% of the eligible UG and PG programmes (obtained and applied for) and 100% accreditation (obtained and applied) for the eligible UG and PG programmes by the end of the Project. The institution has already prepared a draft Self Assessment Report (SAR) and presented before the meeting held on 02-01-2013 at DTE, Thiruvananthapuram.

Decision needed: BoG may give directions on the measures to be taken to expedite the process and also suggest a time schedule for the visit of accreditation team.

C7.II. Ratification of the appointment of temporary MIS officer as per the direction from NPIU.

NPIU directed to fill in the post of MIS officer on contract basis in all the Project Institutions during the project life period. He/She will be fully responsible for data collection, consolidation and reporting. Qualification and experience required for the post shall be B Tech in Computer Science & Engineering or Information Technology/MCA – minimum experience 2 (two) years in data processing and total consolidated amount payable shall be Rs. 25000/- per month.

Based on the above, we have conducted an interview on 01/07/2013 for the post of MIS Officer. We have selected and appointed **Smt. Divya M.** with effect from 03/07/2013 as MIS officer as per the terms and conditions prescribed by SPFU and NPIU.

Decision needed: BoG may ratify the appointment of **Smt. Divya M.**

C8. Academic support for Weak students

Background

As per the NPIU guidelines, it is considered important to improve the academic performance of weak students through innovative methods such as remedial teaching in professional subjects and soft skills development for increasing transition rate, pass rate and employability. Hence institution is required to constitute a Finishing School with a senior faculty as coordinator.

The key activities under the aegis of the Finishing School will be:

1. Conducting remedial teaching throughout academic sessions for improving transition rate and pass rate of students,
2. Conducting specialized soft skills and professional skills development training during semester-breaks and vacations (preferably starting from 5th Semester onwards) for increasing employability,
3. Conducting high intensity training (of at least 4-weeks duration) for development of soft and professional skills in the students that graduate but fail to secure any employment.
4. Organizing campus interviews and making other efforts to secure employment for graduate engineers that complete the training under activity (3) above.

C8. I. Discussion and ratification of various academic programs for the students

1. Details of remedial classes conducted from April 2013 – July 2013

Name of the Department: Civil Engineering

| Sl.No | Name of the Subject | Semester | Name of the faculty who conducted the class | No. of days classes conducted | No. of students attended | Expenditure Rs. | Whether Ratification of BOG required? (Yes/No) |
|-------|---------------------|----------|---|-------------------------------|--------------------------|-----------------|--|
| 1 | Structural analysis | 4 | Dileepkumar | 10 hours | 24 | 6000 | Yes |
| 2 | Surveying | 4 | Ansu .V | 12 hours | 20 | 7200 | Yes |
| 3 | Economics | 4 | Subisha | 9 hrs | 20 | 5400 | Yes |

Name of the Department: Mechanical Engineering

| Sl.No | Name of the Subject | Semester | Name of the faculty who conducted the class | No. of days classes conducted | No. of students attended | Expenditure Rs. | Whether Ratification of BOG required? (Yes/No) |
|-------|---------------------|----------|---|-------------------------------|--------------------------|-----------------|--|
|-------|---------------------|----------|---|-------------------------------|--------------------------|-----------------|--|

| | | | | | | | |
|---|------------------------------------|--------|--------------------------|--------|----|----------------|--|
| 1 | Mechanics of Solids | Fourth | Mr.Rathil P | 24 hrs | 18 | 14400/- | |
| 2 | Machine Design I | Sixth | Prof.Saijal K K | 20 hrs | 16 | 12000/- | |
| 3 | Dynamics of Machinery | Sixth | Prof.Sajeeb A M | 24 hrs | 16 | 14400/- | |
| 4 | Refrigeration and air Conditioning | Eighth | Mr.Deepesh D | 25 hrs | 20 | 15000/- | |
| 5 | Energy Engineering and Management | Eighth | Mr.Athul Suresh Chandran | 25 hrs | 20 | 15000/- | |
| | Total | | | | | 70800/- | |

Name of the Department: Chemical Engineering

| Sl. No | Name of the Subject | Semester | Name of the faculty who conducted the class | No. of days classes conducted (hrs) | No. of students attended | Expenditure Rs. | Whether Ratification of BOG required? (Yes/No) |
|--------|------------------------------------|----------|---|-------------------------------------|--------------------------|-----------------|--|
| 1 | Optimization of Chemical processes | S8 | Ushakumary E.R. | 1 | 24 | 600 | No |
| 2 | Chemical Engg. Design | S8 | Suma K | 3 | 23 | 1800 | No |
| 3 | Particle Technology | S4 | RemayaSankar | 2 | 32 | 1200 | No |
| 4 | Mass Transfer Operations II | S6 | Sinu P | 6 | 41 | 3600 | No |

Name of the Department: Applied Electronics & Instrumentation Engineering

| Sl. No | Name of the Subject | Semester | Name of the faculty who conducted the class | No. of days classes conducted | No. of students attended | Expenditure Rs. | Whether Ratification of BOG required? (Yes/No) |
|--------|--|----------|---|-------------------------------|--------------------------|-----------------|--|
| 1 | Industrial Instrumentation | Sixth | Ramya s | 6 | 25 | 3600 | Yes |
| 2 | Electronics Instrumentation & Measurements | Fourth | AparnaSreemohan | 3 | 25 | 1800 | Yes |

C8. II. Details of the proposed remedial/ bridge classes from August 2013 – October 2013

Name of the Department: Mechanical Engineering

| Sl.No | Name of the Subject | Semester | Expected duration and dates | Approximate Expenditure Rs. | Expected number of beneficiaries |
|-------|-----------------------------------|------------------------------|-----------------------------------|-----------------------------|----------------------------------|
| 1 | Metallurgy & Material Science | Third | 30 Hrs, July 2013 to October 2013 | 18000/- | 15 |
| 2 | Computer Assisted Machine Drawing | Third | 30 Hrs, July 2013 to October 2013 | 18000/- | 15 |
| 3 | Metal Cutting & Forming | Fifth | 30 Hrs, July 2013 to October 2013 | 18000/- | 15 |
| 4 | Heat and Mass Transfer | Fifth | 30 Hrs, July 2013 to October 2013 | 18000/- | 15 |
| 5 | Power Plant Engineering | Seventh | 30 Hrs, July 2013 to October 2013 | 18000/- | 15 |
| 6 | Operations Management | Seventh | 30 Hrs, July 2013 to October 2013 | 18000/- | 15 |
| 7 | Engineering Mathematics | Third Lateral Entry students | 30 Hrs, July 2013 to October 2013 | 18000/- | 25 |
| | Total | | | 126000/- | |

Name of the Department: Chemical Engineering

| Sl. No | Name of the Subject | Semester | Expected duration and dates | Approximate Expenditure Rs. | Expected number of beneficiaries |
|--------|-------------------------------|----------|-----------------------------|-----------------------------|----------------------------------|
| 1 | Mass Transfer Operations I | 5 | 30hrs, Aug.13-Oct.13 | 18000 | 15 |
| 2 | Transport Phenomena | 7 | 30hrs, Aug.13-Oct.13 | 18000 | 15 |
| 3 | Chemical Process Principles | 3 | 30hrs, Aug.13-Oct.13 | 18000 | 15 |
| 4 | Chemical Engg. Thermodynamics | 3 | 30hrs, Aug.13-Oct.13 | 18000 | 15 |

| | | | | | |
|---|-------------------------------------|---|----------------------|-------|----|
| 5 | Chemical Reaction Engg. | 5 | 30hrs ,Aug.13-Oct.13 | 18000 | 15 |
| 6 | Chemical Engg. Design and Drawing I | 7 | 30hrs ,Aug.13-Oct.13 | 18000 | 15 |

Name of the Department: Applied Electronics & Instrumentation Engineering

| Sl. No | Name of the Subject | Semester | Expected duration and dates | Approximate Expenditure Rs. | Expected number of beneficiaries |
|--------|---------------------------------|----------|-----------------------------|-----------------------------|----------------------------------|
| 1 | Network Analysis & Synthesis | Third | 25 hours, from 22/7/2013 | 15000 | 30 |
| 2 | Network Analysis & Synthesis | Third | 25 hours, from 22/7/2013 | 15000 | 30 |
| 3 | Signals and Systems | Fifth | 25 hours, from 22/7/2013 | 15000 | 30 |
| 4 | Power Electronics | Fifth | 25 hours, from 22/7/2013 | 15000 | 30 |
| 5 | Process Control Instrumentation | Seventh | 25 hours, from | 15000 | 30 |

4. Details of the proposed other training programs for the students from August 2013 – October 2013

Name of the Department: Mechanical Engineering

| Sl.No | Name of the program | Semester | Expected duration and dates | Approximate Expenditure Rs. | Expected number of beneficiaries |
|-------|--------------------------------------|-------------------|---|-----------------------------|----------------------------------|
| 1 | Presentation and Communication Skill | Fifth and Seventh | 10 hrs 3 rd and 4 th August 2013 | 10000/- | 40 |
| 2 | Emotional Engineering | Fifth and Seventh | 10 hrs 6 th and 7 th September 2013 | 15000/- | 40 |
| 3 | Stress Management | Fifth and Seventh | 10 hrs 12 th and 13 th October 2013 | 10000/- | 40 |

C9 Approval for TEQIP II Committee

Due to the deputation of Prof. Ansu (TEQIP Coordinator) under QIP scheme for Ph.D. and general transfer and new postings, TEQIP committee has been reconstituted as per the **Annexure II**.

Decision needed: BOG may kindly ratify the appointment of new committee.

D1 Any other item with the permission of the Chair