

# Darbhanga College of Engineering, Darbhanga, Bihar

## TEQIP-III

### Minutes of the 12<sup>th</sup> meeting of the Board of Governors held on 08.09.2020

The 12<sup>th</sup> meeting of the Board of Governors (BoG) of Darbhanga College of Engineering, Darbhanga was held on 08.09.2020 on the College campus. Due to Covid-19 pandemic, an online platform for attending the meeting is also provided to the Hon'ble members of BoG. The following members attended the meeting.

| SN | Name   | Email Id and Mobile no.                                  | Designation         | Attended  |
|----|--|--|---------------------|-----------|
| 1. | Prof. Manas Bihari Verma<br>Former (Distinguished Scientist DRDO;<br>Director ADA, Program Director, LCA<br>Bangalore; Chairman, BoG, NIT Patna) | mb_verma@rediffmail.com<br>Mob: 9934663428               | Chairman            | In-Person |
| 2. | Shri P. K. Sinha<br>Co-founder and Director, Astric<br>Computer (1) Pvt. Ltd., Patna   | prabhat.sinha@astric.in<br>Mob: 9431017775               | Member              | Online    |
| 3. | Prof. Madan Kumar Jha<br>IIT Kharagpur, Kharagpur  | madan@agfe.iitkgp.ac.in<br>+91-3222-283116               | Member              | Online    |
| 4. | Er. Rajeev Ranjan<br>Controller of Examination, AKU, Patna   | rrnitp@gmail.com<br>Mobile 8102926977                    | Member              | Online    |
| 5. | Dr. Raman Kumar Jha,<br>Head, Dept. of Mathematics,<br>DCE, Darbhanga  | rkjhabce1985@gmail.com<br>Mob: 9931823653,<br>7549289065 | Member              | In-Person |
| 6. | Shri. Shyam Sundar Choudhary<br>Head, Dept. of Civil Engineering,<br>DCE, Darbhanga  | profcpsinghbce@gmail.com<br>6206189090                   | Member              | Online    |
| 7. | Prof. Achintya<br>Principal, DCE, Darbhanga  | dcedbg@rediffmail.com<br>Mob: 9835050340                 | Member<br>Secretary | Online    |

#### Special Invitee:

- Dr. MA Mokhtar  
TEQIP Coordinator  
DCE, Darbhanga

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The Following members could not make it convenient to attend the meeting of BoG of DCE, Darbhanga.

1. Sri Om Prakash Kheria  
Industrialist,  
Banglagarh, Darbhanga

*Professor Achintya, Principal and Member Secretary, BoG, Darbhanga College of Engineering, Darbhanga welcomed the Hon'ble Chairman and all the Hon'ble Members of the BoG to the 12<sup>th</sup> Meeting of the BoG on TEQIP – III Project.*

***Agenda 1: Discussion and approval of the minutes of 11th BoG meeting***

The meeting started off with the discussion on the Minutes of Meeting (MoM) of the 11<sup>th</sup> Board of Governors (BoG) meeting held on 16.06.2020. The MoM of the 11<sup>th</sup> BoG which has been sent to all members, was approved by the Chairman after the unanimous decision taken by the Hon'ble Members of the BoG. There were some suggestions on the Action Taken Report (ATR) which are to be followed in the following Quarters, as described in Agenda 2 below.

***Agenda 2: Review of the Action Taken Report (ATR)***

| Sl.No. | Proposal/ Commitment  | Action Taken  |
|--------|---|---|
| 1      | A feedback system is to be created where the students can provide feedback on regular classes as well as on various academic activities carried out in the Institute. | <p>A feedback system for regular and remedial classes are in place and the link is provided at the Institute website for students to access and submit.</p> <p>Separate feedback forms are supplied to the participating students in various academic activities. The design and contents of feedback forms depends on the kind of activity undertaken.</p> <p>The Dept. of Sc. &amp; Tech. has also provided a software called VCS (Virtual Claasroom software) for all the Principals, HoDs, faculty members, Mentors and students of all engineering and Polytechnic colleges across Bihar.</p> <p>The software is used to upload the course materials such as video, class notes, tests, assignments etc. for all students to access and get benefitted. The students can rank the course material and the course coordinator also. The whole process is being monitored by the DST, Patna.</p> <p>The Bog members were apprised that the effectiveness of feedback system through VCS and performance ratings of</p> |

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|---|----------------------------|---|
|   |                            | two faculty members of DCE, namely Mr. Shyam Sundar Choudhary, Assistant Professor, Civil Engg., and Mr. Navdeep Pandey, Asstt. Pfof. Mech. Engg. Have been outstanding in the state of Bihar   |
| 2 | Course/semester completion | <p>The course of subjects in the last semester has been completed through online mode.</p> <p>The online assessment of students for 20 marks has also been completed for 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> and final year students and the total internal assessment has been submitted to AKU, Patna. External Exam for final year students are to be planned by AKU.</p> <p>The classes for current semester have already started from first week of August and all the course materials are being uploaded to the VCS software.</p> |

The Hon'ble members of the BoG appreciated the efforts made to complete the courses in previous semester well in time.

**Agenda 3: Presentation and discussions on the Progress at DCE after 11<sup>th</sup> BoG meeting.**

**A. Online classes for current and previous semester**

- The classes for current semester has already started from first week of August and all the course materials are being uploaded to the VCS software.
- For the previous semester evaluation, online assessment (Quiz type) for 20 marks in each subject has been completed and the total internal assessment has already been submitted to AKU, Patna.
- Summary of the status at VCS software is as follows

| SN | Dept.        | Total no of faculty | No of faculty registered on VCS                                       | Total no of students | No of students registered on VCS | No of videos+Notes uploaded | No of mentors assigned |
|----|--------------|---------------------|---|----------------------|----------------------------------|-----------------------------|------------------------|
| 1  | ME           | 9                   | 9+4   | 254                  | 230                              | 123                         | 12                     |
| 2  | CE           | 9                   | 8+1+1   | 268                  | 260                              | 70                          | 8                      |
| 3  | EEE          | 12                  | 12  | 256                  | 234                              | 94                          | 12                     |
| 4  | CSE          | 8                   | 7+1   | 237                  | 232                              | 47                          | 7                      |
| 5  | Ap.Sc.       | 9                   | Registered with the department in which they are teaching the course. |                      |                                  |                             |                        |
|    | <b>Total</b> | <b>47</b>           | <b>43</b>   | <b>1015</b>          | <b>995</b>                       | <b>334</b>                  | <b>39</b>              |

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**B. Other information related to academics.**

- More than 30 faculty members have created their own YouTube channel through which they are delivering their subject lectures and uploading their Videos.
- A total of 867 students have been registered on NDL, IIT Kharagpur.
- All students from 2<sup>nd</sup> and 3<sup>rd</sup> year are instructed to register for at least one course on NPTEL/Swayam. Branch - wise faculty coordinators are assigned to help students on this.
- Faculty members are also registered for various courses on NPTEL/Swayam.
- Students of DCE Darbhanga has also shown a commendable passion towards online learning. In addition to the regular classes for syllabus completion, they have attended various online courses/workshops/webinar/Internships etc.

**C. Webinars, FDP, STTP, workshop etc. conducted by the Institute.**

The department wise summary of FDP / Webinars / STTP etc. are as follows:

| SN | Dept.           | Webinar / FDP                    | Planned in September, 2020 |
|----|-----------------|----------------------------------|----------------------------|
| 1  | CE              | 4                                | 0                          |
| 2  | ME              | 3 (webinar)<br>1 (FDP, one week) | 1                          |
| 3  | EEE             | 2                                | 1                          |
| 4  | CSE             | 1                                | 2                          |
| 5  | Applied Science | 1                                | 1                          |
| 6  | Institute level | 1                                | 3                          |

Department wise details of the webinar conducted are as follows

✓ **Mechanical Engineering Department**

| SN | FDP / Webinar | Title of Webinar/FDP                             | Date of Webinar  | Name of speaker  | No. of participant |
|----|---------------|--|------------------|--|--------------------|
| 1  | FDP           | Vibrations, Rotordynamics and Signal Processing. | 13-17 July, 2020 | Dr. Piyush Shakya<br>Dr. Ashish Purohit<br>Mr. RS Maurya<br>Dr. Faisal Rahmani<br>Dr. Jaskaran Singh<br>Dr. MA Mokhtar | 38                 |

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|   |         |   |            |   |    |
|---|---------|---|------------|---|----|
| 2 | Webinar | IIoT – The Future of Manufacturing Automation | 29-07-2020 | Mr. Syed Tanveer Habib,<br>Cognizant Consulting,<br>London, UK      | 90 |
| 3 | Webinar | Scope of Engineering Services Examination     | 23-08-2020 | Mr. Syed Faheem Haider Abidi,<br>Deputy Director,<br>CWC, New Delhi | 47 |
| 4 | Webinar | Project Management                            | 30-08-2020 | Mr. Mazhar Wahab<br>Deputy Manager,<br>BHEL, Noida                  | 41 |

✓ **Civil Engineering Department**

| SN | FDP / Webinar | Title of Webinar/FDP                    | Date of Webinar | Name of speaker                        | No. of participant |
|----|---------------|---|-----------------|--|--------------------|
| 1  | Webinar       | Recent trends in Civil Engineering.     | 06-06-2020      | Prof. Achintya and faculty of CE dept. | 270                |
| 2  | Webinar       | Introduction to remote sensing and GIS. | 16-06-2020      | Smt. Ananya Kumari                     | 45                 |
| 3  | Webinar       | Innovative applications of white cement | 20-07-2020      | Mr. Rameshwar Singh                    | 90                 |
| 4  | Webinar       | Introduction to composite materials     | 02-08-2020      | Dr. Punita Kumari                      | 122                |

✓ **Electrical and Electronics Engineering Department**

| SN | FDP / Webinar | Title of Webinar/FDP   | Date of Webinar | Name of speaker                    | No. of participant |
|----|---------------|--|-----------------|------------------------------------|--------------------|
| 1  | Webinar       | Opto electronic Devices & Mimo antenna's and its application | 21-08-2020      | Dr. Amit Kumar and Dr. Ravi Ranjan | 89                 |

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|   |         |  |            |                  |    |
|---|---------|--|------------|------------------|----|
| 2 | Webinar | On Energy and Environment problems facing the third world and their probable solutions for sustainable development and poverty Alleviation | 04-09-2020 | Prof D P Kothari | 75 |
|---|---------|--|------------|------------------|----|

✓ Computer Science Engineering Department


| SN | FDP / Webinar | Title of Webinar/FDP                                   | Date of Webinar | Name of speaker                       | No. of participant |
|----|---------------|--|-----------------|---------------------------------------|--------------------|
| 1  | Webinar       | How to conduct effective online quiz using google form | 04-07-2020      | Mr. Ajeet K Gupta<br>Mr. Sunil K Sahu | 122                |

✓ Applied Science Department

| SN | FDP / Webinar | Title of Webinar/FDP              | Date of Webinar | Name of speaker                             | No. of participant |
|----|---------------|-----------------------------------|-----------------|---|--------------------|
| 1  | Webinar       | Introduction to IPR and Patents   | 10-07-2020      | Dr. Vijeta Jha,<br>Techno IPR<br>Consultant | 52                 |
| 2  | Webinar       | A career on emerging Technologies | 30-08-2020      | Dr. Bhagwati Prasad Joshi                   | 37                 |

✓ Institutional Level

| SN | FDP / Webinar | Title of Webinar/FDP      | Date of Webinar | Name of speaker                | No. of participant |
|----|---------------|---------------------------|-----------------|--------------------------------|--------------------|
| 1  | Webinar       | Creativity and Innovation | 06-09-2020      | Shri Vijoy Prakash (Retd. IAS) | 51                 |

  
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**D. List of Speakers from Darbhanga College of Engineering, Darbhanga on various webinars**

| SN | Name of Faculty   | Title of webinar  | Organizer                          |
|----|-------------------|---|------------------------------------|
| 1  | Prof. Achintya    | ✓ Innovative application of white cements<br>✓ TQM in Higher and Technical Education. | ✓ DCE, Darbhanga<br>✓ BIIT, Ranchi |
| 2  | Dr. M A Mokhtar   | Introduction to Rotordynamics and Vibration measurements related to it.               | ✓ YCET, Jammu with IIC.            |
| 3  | Mr. Ajeet K Gupta | How to conduct effective online quiz using google form                                | ✓ DCE, Darbhanga                   |
| 3  | Dr. Ratnakshi Roy | Keynote speaker, Impact of COVID-19 on socio-educational structure.                   | ✓ Shekhar Classes, Darbhanga       |

**E. Status of CRS projects**

| SN | Name of Principal Investigator | Title of research   | Grants received from AICTE/NPIU in Lakhs | Total Expenditure (in Lakhs) | Research outcome  |
|----|--------------------------------|---|--|------------------------------|---|
| 1  | Mr. Amit Kumar                 | Investigations on massive MIMO antenna for future wireless communication                                | 16.92                                    | 8.36                         | Two Research Articles communicated in Radio Science (SCI Journal) and are under review since 11-05-2020 |
| 2  | Dr. Rajesh Jena                | Catalytic Synthesis of Primary Alcohols, the Addition of Water to Alkenes by Ruthenium Pincer Complexes | 12.25                                    | 5.87                         | Ongoing   |
| 3  | Mr. Navdeep Pandey             | Development of a portable and industry viable torsional vibration                                       | 13.35                                    | 3.62                         | Ongoing   |

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|              |                       |  |              |              |  |
|--------------|-----------------------|--|--------------|--------------|--|
|              |                       | measurement system   |              |              |  |
| 4            | Dr Ravi Ranjan        | Group-IV alloys based nanostructured photonic sensors for near and mid-infrared applications | 11.30        | 4.36         | Research work going on, based on initial result two international conferences paper published. |
| 5            | Dr. Abhishek K. Singh | Investigation on electron migration mechanism in metallic nanowire                           | 12.10        | 0.55         | ongoing  |
| 6            | Mr. Rajat Gupta       | Design and development of set up for Electrical discharge milling process                    | 14.43        | 0.45         | ongoing  |
| 7            | Dr. Puja Kumari       | Persistent Light Emitting Phosphors for Solid State Lighting Applications                    | 10.98        | 3.12         | Presented paper in International conference  |
| <b>Total</b> |                       |  | <b>91.33</b> | <b>26.33</b> |  |

The Hon'ble members of the BoG appreciated the efforts and development and further suggested to develop a mechanism to monitor the progress of such research Projects. It was also suggested to prepare a task based timeline to monitor its achievement.

#### *Agenda 4: Approval on the academic activities*

The Principal apprised the board that the tenure of TEQIP-III project is going to end on September 30, 2020. The institute so far has completed 99% allocation against procurement head and around 82% under Academic head allocation. In anticipation of the extension of the project and fresh allocation of the funds, The Principal requested the Hon'ble members of the BoG to consider approval on following academic activities and Procurement plan.

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**A. Approval on organizing academic activities on the campus**

| SN | Training name   | Dept. | Rate per student | Total Estimated cost (Lacs) | Method   |
|----|---|-------|------------------|-----------------------------|----------|
| 1  | STEM Electronics Design And Prototyping Tinkering and Innovation Blended Learning program powered by Virtual Lab. | EEE   | 8,900            | 4.45                        | GeM      |
| 2  | AI/ML Online Training Program   | EEE   | 9,950            | 5.0                         | GeM      |
| 3  | EDWinXP   | EEE   | 7,000            | 2.8                         | Services |
| 4  | Hydraulic and Hydrology (Watergem and Sewergem)   | CE    | 5,000            | 2.0                         | Services |
| 5  | Open Roads (formerly known as MX road)  | CE    | 5,000            | 4.0                         | Services |
| 6  | Satellite Designing and Launching workshop  | ME    | 8,500            | 3.4                         | Services |
| 7  | Design of automobile components using solidworks  | ME    | 5,000            | 2.0                         | Services |
| 8  | Assembling and dismantling of ic engine in virtual environment  | ME    | 8,000            | 3.2                         | Services |

The Hon'ble members of the BoG unanimously approved the plan to conduct above mentioned trainings, subject to the extension of the project and availability of the funds. The Hon'ble members of the BoG further emphasized on making a detailed action plans with specific requirements and expectation from the training so that the students get maximum benefits out of these trainings.

**B. Approval on faculty attending conferences etc.**

**1. Mrs. Punam Prabha (Asst. Prof., EEE dept.)**

Conference: Advances in Computing, Communication Control and Networking – ICACCCN (ICAC3N-20).

Venue: Galgotias College of Engineering and Technology, Greater Noida, India, December 18-19, 2020.

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Title of the paper: Securing Telecare Medical Information System with Blockchain Technology.

Registration fee: 5000/-

Estimated budget for approval: 24,000/-.

The Hon'ble members of the BoG approve the expenditure on faculty attending conferences subject to the project extension and availability of funds.

In case of Dr. Abhishek Kumar, where the overall conference registration fee includes the publication charges and there is no clear bifurcation on the registration fee, the Hon'ble members of the BoG unanimously decided to approve on 50% of the overall conference fee with a cap of 5000/- only, which is in general the paper registration fee across most of the national conferences. This arrangement will also apply to other similar cases in future.

**C. Approval on psychometric test for all students.**

- Test will be conducted through services or through GeM (as suitable)
- Estimated expenditure : 5 Lacs

The Hon'ble members of the BoG unanimously decided to approve the budget for the psychometric test for all students of the institute subject to the project extension and availability of funds.

**D. Approval on remuneration for in-house GATE training**

The Principal apprised the board that there is an instruction from SPIU/NPIU that the gate training for the current academic year should be held by the internal faculty as the performance of empanelled coaching institutes in the last two years were very poor.

There is a circular (Annexure – II; ref pt. no. 14) from NPIU which allows to pay the remuneration/honorarium of 700/- per hour to the faculty with a cap of 4000/- per day.

The Principal further apprised the board the GATE training for current academic year is already started in online mode and requested to consider the approval on remuneration with following details.

| SN    | Branch                                 | No. of hours | Estimated expenditure |
|-------|--|--------------|-----------------------|
| 1     | Mechanical Engineering                 | 475          | 3.325 Lacs            |
| 2     | Civil Engineering                      | 480          | 3.360 Lacs            |
| 3     | Electrical and Electronics Engineering | 455          | 3.185 Lacs            |
| 4     | Computer Science Engineering           | 400          | 2.800 Lacs            |
| TOTAL |  | 1810         | 12.67 Lacs            |

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The Hon'ble members of the BoG unanimously approved the budget for remuneration to the faculty members for in-house GATE training in the current academic session subject to the project extension and availability of funds.

**E. Approval on GATE Test series**

A test series is an important aspect in preparation of any competitive exams. It helps students evaluate himself/herself before-hand and put focussed efforts on the identified areas. In this light, the Hon'ble members of the BoG are requested to consider approval on the GATE test series for final year students.

The test series will be arranged through services following the TEQIP-III guidelines. The test series will start in the month of November, 2020.

The estimated cost for the test series is 1500/- per students. Total number of students: 250. Maximum budget would be around 4 Lacs.

The Hon'ble members of the BoG unanimously approved conducting GATE test series for final year students subject to the project extension and availability of funds.

**F. Approval on PhD fees reimbursement for the faculty**

The principal apprised the board that a total of four (04) faculty members have secured selection in PhD program at NIT Patna.

1. Mr Ajeet Kumar Gupta (CSE)
2. Mr Akash (CE)
3. Mr. Shakti Prasad Senapati (EEE)
4. Mr. Madhav Ram (ME)

Approval on reimbursement of their admission fees, as per the TEQIP guidelines is requested. Total estimated budget is around 2 lacs only.

The Hon'ble members of the BoG unanimously approved reimbursement of the PhD admission fees as per the TEQIP guidelines.

**G. Approval on Phase-III of the software training in online mode by E&ICT Academy, IIT Kanpur (ref: Annexure – III)**

The Principal apprised the board that Phase-I & II of the software training is completed successfully for around 290 students, for which the BoG approval was already taken. A feedback on the completed training was taken from the students which suggest to carry on with the training in next phases.

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A total of 78 students recommended for phase-III training for the remaining students. 38% of the feedback read the training excellent while others put it in the category of very good or good. Based on the feedback received, T&P officer has recommended for the phase-III training.

Total 203 students have shown interest and claimed that they have the laptop/Smart Phone/PC/Internet connectivity for the training. The said training is under progress.

The total estimated expenditure would be around 5 Lacs only

A go ahead was already given by the Hon'ble chairman on the said training. The Hon'ble members discussed the proposed training in detail and approved the phase-III of software training for 203 students by E&ICT Academy, IIT Kanpur. The Hon'ble members of the BoG also suggested getting the feedback from the faculty members also who have participated or mentored the phase-I training.

#### **H. Approval on payment for students training (Post facto approval)**

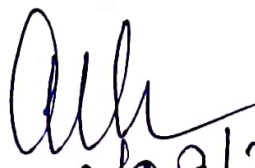
In the 10<sup>th</sup> BoG meeting of DCE, Darbhanga, the Hon'ble members have suggested to collaborate with manufacturing units or training centers such as CIPET-Hajipur, TRTC-Patna, etc. and arrange hands-on training for the students. In the 11<sup>th</sup> BoG meeting, the above mentioned training was reported, however missed to get the approval on the payment.

A total of 73 students (68 reported earlier) from 2nd and 3rd year from all four branches have attended 28 days (4 weeks) training at Tool Room and Training Centre (TRTC), Patna from 16-02-2020 to 15-03-2020. The branch-wise list of training was as follows:

| SN | Branch | No of students | Topic for the training           | Reg. fee per student |
|----|--------|----------------|----------------------------------|----------------------|
| 1  | ME     | 5              | CNC Milling                      | 3540                 |
| 2  | CE     | 19             | Staad Pro                        | 4130                 |
| 3  | EEE    | 31             | Electrical CAD                   | 3540                 |
| 4  | CSE    | 18             | Computer Hardware and Networking | 4720                 |

Registration fees, accommodation, food and TA will be paid to the students. The total estimated expenditure on this is around 6 Lacs.

The Hon'ble members discussed the said training in detail and unanimously approved the expenditure.

  
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**Agenda 5: Approval on Procurement action plan subject to the Extension of the TEQIP-III Project.**

As suggested by SPIU and in anticipation of the extension of TEQIP-III with additional allocation of the funds, the Institute proposes following procurement plan as received from various department.

Further, The principal apprised the boards that we are in final stage of receiving our new building and expected to be shifting most of our lab equipment, furniture, offices, etc. to the new building in the month of October, 2020.

**A. Approval on procurement for Library Management**

| SN           | Item   | Qty     | Estimated cost  |
|--------------|--|---------|-----------------|
| 1            | Printer, Barcode reader, Router for E-Granthalay | 1 each  | 50,000          |
| 2            | Book Shelves and Almirah                         | 25 + 5  | 2,00,000        |
| 3            | Reading Table 1.5 mtr long) + Chair              | 10 + 50 | 1,50,000        |
| 4            | Electrical wiring                                | NA      | 20,000          |
| 5            | Vacuum Cleaner                                   | 1       | 20,000          |
| <b>TOTAL</b> |  |         | <b>4,40,000</b> |

**B. Approval on procurement for Mechanical Engineering Department**

| SN           | Item  | Qty   | Estimated cost   |
|--------------|---|-------|------------------|
| 1            | Experimental Table  | 20    | 3,00,000         |
| 2            | Exhaust Gas Analyzer  | 1     | 3,00,000         |
| 3            | Computerized test rig of 4-cylinder Diesel Engine with Electric Dynamo  | 1     | 10,00,000        |
| 4            | Lab Maintenance (renovation and Repairing of Lab equipment) Motors, Oiling & Greasing, Internal parts replacement, etc. |       | 2,50,000         |
| 5            | Foundation for Equipment establishment in new building  | NA    | 2,00,000         |
| 6            | Digital Magnetic stirrer with heating   | 1 set | 30,000           |
| <b>TOTAL</b> |   |       | <b>20,80,000</b> |

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**C. Approval on procurement for Civil Engineering Department**

| SN           | Item   | Qty | Estimated cost   |
|--------------|--|-----|------------------|
| 1            | Repair and Renovation of Lab apparatus               | NA  | 2,00,000         |
| 2            | Concrete permeability test apparatus (3-cell member) | 1   | 4,00,000         |
| 3            | Aggregate Impact Test Apparatus                      | 1   | 1,25,000         |
| 4            | Engineering Geology Practicals (Rock's set)          | 1   | 3,00,000         |
| 5            | Various Structural Models                            | NA  | 4,00,000         |
| <b>Total</b> |  |     | <b>14,25,000</b> |

**D. Approval on procurement for Electrical & Electronics Engineering Department**

| SN                      | Item                                  | Qty   | Estimated cost |
|-------------------------|---------------------------------------|-------|----------------|
| <b>Machine Lab</b>      |                                       |       |                |
| 1                       | Maintenance and Renovation            | NA    | 2,00,000       |
| <b>Power System Lab</b> |                                       |       |                |
| 3                       | Distribution trainer Kit              | 1     | 2,00,000       |
| 4                       | Power Generation (Solar + Wind) panel | 1     | 3,00,000       |
| 5                       | Transmission line trainer kit         | 1     | 2,00,000       |
| <b>Measurement Lab</b>  |                                       |       |                |
| 6                       | Bridges (AC + DC)                     | 1 + 1 | 1,50,000       |
| 7                       | Potentiometer (AC + DC)               | 1 + 1 | 1,50,000       |
| 8                       | Power Factor meter                    | 1     | 30,000         |
| 9                       | Megger (AC + DC)                      | 1     | 50,000         |
| 10                      | Energy Meter                          | 1     | 30,000         |
| 11                      | CRC spray                             | 10    | 7,000          |

**Analogue and Digital Communication Lab (According to new Syllabus)**

| SN | Name of Equipment                                   | Qty | Total Price |
|----|---|-----|-------------|
| 1  | DSB/SSB AM Transmitter trainer kit Sciencetech 2201 | 4   | 70,000      |
| 2  | DSB/SSB AM Receiver trainer kit Sciencetech 2202    | 4   | 70,000      |

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|   |  |              |                 |
|---|--|--------------|-----------------|
| 3 | PAM-PPM-PWM Modulation- Demodulation Techniques Scientech 2110     | 3            | 50,000          |
| 4 | Delta modulation and Demodulation Trainer Kit                      | 3            | 40,000          |
|   | Frequency Modulation & Demodulation Techniques Scientech 2203      | 4            | 60,000          |
| 5 | ASK, FSK, BPSK, DBPSK Modulator and Demodulator Kit Scientech 2807 | 4            | 50,000          |
| 6 | Sampling and reconstruction Trainer kit Scientech 2151             | 3            | 40,000          |
| 7 | TDM - PAM Transmitter Receiver Scientech 2152                      | 3            | 40,000          |
|   |  | <b>Total</b> | <b>4,20,000</b> |

**Total estimated budget for EEE Dept. :  $13.17 + 4.20 = 17.37$  Lacs**

#### **E. Department of Physics**

1. Long experimental table for Physics Lab: Qty 12: Estimated cost: 8 Lacs

#### **F. Institute Furniture for new building**

| SN | Name of Equipment                | Qty | Total Price      |
|----|----------------------------------|-----|------------------|
| 1  | Wooden stool for various labs    | 300 | 5,00,000/-       |
| 2  | Almirah                          | 25  | 5,00,000/-       |
| 3  | Digital Podium for seminar halls | 2   | 3,00,000/-       |
| 4  | Air Conditioner                  | 15  | 6,00,000/-       |
|    | <b>Total</b>                     |     | <b>19,00,000</b> |

In anticipation of Project extension and fresh allocation of the funds, the Hon'ble members of the BoG approved the procurement plan of the items mentioned in agenda 5 (Section A to F) above. The Hon'ble members of the BoG further emphasized on preparing a detailed specification of all proposed equipment, furniture, etc. before proceeding for the procurement.

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15/09/2020

**Agenda 6: Approval of the Expenditure made under TEQIP-III up to 07-09-2020.**

**Reference: Annexure-IV (Expenditure report)**

**Summary of the expenditure upto 07-09-2020**

| SN | Head                                     | Expenditure (Rs.)  |
|----|--|--------------------|
| 1  | PROCUREMENT (Total allocation: 6 Cr.)    | 5,99,60,274        |
| 2  | ACADEMIC (Total allocation: 3 Cr.)       | 2,45,74,628        |
| 3  | OPERATING COST (Total allocation: 1 Cr.) | 53,60,682          |
|    | <b>TOTAL</b>                             | <b>8,98,95,584</b> |

**Head wise expenditure in the present quarter upto 07-09-2020**

| SN   | Head: Name  | Expenditure (Rs.) |
|------|---|-------------------|
| 1    | PROCUREMENT (Total allocation: 6 Cr.)                 | 0.00              |
| 2    | ACADEMIC (Total allocation: 3 Cr.)                    | 16,08,196         |
| 2.1  | 1.1.2.1: Improve Students Learning                    | 5,67,486          |
| 2.2  | 1.1.2.2: Research Assistantship                       | 4,28,070          |
| 2.3  | 1.1.2.3: Graduate Employability                       | 4,02,115          |
| 2.4  | 1.1.2.4: Faculty and Staff Development and Motivation | 0.00              |
| 2.5  | 1.1.2.5: Research and Development                     | 20,000            |
| 2.6  | 1.1.2.6: Moocs and Digital Learning                   | 1,07,395          |
| 2.7  | 1.1.2.7: Mentoring / Twinning System                  | 34,880            |
| 2.8  | 1.1.2.8: Reforms and Governance                       | 4,000             |
| 2.9  | 1.1.2.9: Management Capacity Development              | 0.00              |
| 2.10 | 1.1.2.10: Hiring Consulting Services                  | 44,250            |
| 2.11 | 1.1.2.11: Industry-Institute-interaction              | 0.00              |
| 3    | OPERATING COST (Total allocation: 1 Cr.)              | 2,79,913          |
|      | <b>TOTAL</b>  | <b>18,88,109</b>  |

**Total Allocation: 10,00,00,000 (10 Crore)**

*Ash*  
15/09/2020

**Total expenditure: 8,98,95,584/-** (Eight crore ninety eight lacs ninety five thousand five hundred and eighty four only).

The BoG has approved the expenditure made under TEQIP III upto 07.09.2020.

***Agenda 7: Any other matter with the permission of the Chair***

**A. Recruitment of Program Manager for the project management upto the tenure of the Project.**

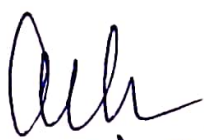
The TEQIP Cell of the Institute has no Program Manager for more than a year. It has been reported that the TEQIP cell faces difficulty in meeting the expectations of SPIU/NPIU for timely completion of the activities. TEQIP coordinator requested the Hon'ble members of the BoG to make some minor modification in the eligibility criteria for the post of Program Manager so that more number of candidates appear for the interview. The Hon'ble members of the BoG discussed and approved to advertise a walk-in interview for the post of Program Manager with following eligibility Criteria.

1. Essential criteria: B.Tech and M. Tech. in any Engineering Discipline with minimum two years of experience after M. Tech.  
Or  
B.Tech in any discipline and MBA with minimum two years of Experience after MBA.
2. Desirable: GATE/CAT Qualified, Candidates with experience in DBMS will be preferred.

**B. Creation and recruitment of a new post of Assistant Program Manager.**

Looking at volume of work and the timelines of activities related with TEQIP, it is further requested to the Hon'ble members of the BoG to allow creation of a post of Assistant Program Manager. The eligibility of the proposed post of Assistant Program Manager will be B.Tech in Computer Science with minimum three years of Experience. Candidate with experience in Microsoft office, MIS, ERP, will be preferred. The Remuneration / consolidated salary will be 30,000/- per month.

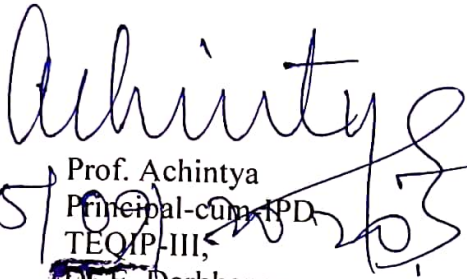
The Hon'ble members of the BoG approved creation of the post of Assistant Program Manager and approved to conduct a walk-in Interview to fill it.


  
15/09/2020



The 12<sup>th</sup> BoG concluded with the suggestions to improve the feedback system and preparing a robust monitoring mechanism for various activities undergoing in the Institute. The Chairman thanked the members for attending the meeting and putting forth their valuable suggestions and inputs. He also thanked the Principal for arranging the meeting as well as for the hospitality.

The meeting concluded with a delivery of vote of thanks to the Honorable Chairman.

  
15/09/2020  
Prof. Achintya  
Principal-cum-IPD,  
TEQIP-III,  
DCE, Darbhanga  
**Principal**  
Darbhanga College of Engineering  
Mabbi, Darbhanga-846005

  
15.09.2020.  
Prof. Manas Bihari Verma  
Chairman,  
Board of Governors,  
DCE Darbhanga