## Darbhanga College of Engineering, Darbhanga, Bihar TEQIP-III

## minutes of the 11<sup>th</sup> meeting of the Board of Governors held on 16.06.2020

The 11<sup>th</sup> meeting of the Board of Governors (BoG) of Darbhanga College of Engineering, Darbhanga was held on 16.06.2020 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	mb_verma@rediffmail.com	Chairman	In-Person
	Former (Distinguished Scientist DRDO; Director ADA, Program Director, LCA Bangalore; Chairman, BoG, NIT Patna)	Mob: 9934663428		
2.	Sri Om Prakash Kheria	jis.dbg@gmail.com	Member	In-Person
	Industrialist	Mob: 9334934666		
•	Banglagarh, Darbhanga	9431219123 rkjhabce1985@gmail.com	Member	In-Person
3.	Dr. Raman Kumar Jha, Head, Dept. of Mathematics,	, ,,,	Memoer	mer craon
	DCE, Darbhanga	Mob: 9931823653, 7549289065		
4.	Director.	dst.itmanager@gmail.com	Member	Online
	Dept. of Sc. & Tech., Govt. of Bihar	directordst@bihar.gov.in		
5.	Shri P. K. Sinha	prabhat.sinha@astric.in	Member	Online
	Co-founder and Director, Astric	Mob: 9431017775		
	Computer (1) Pvt. Ltd., Patna	dan@anfa iitkan aa in		0 1
6.	Prof. Madan Kumar Jha IIT Kharagpur, Kharagpur	madan@agfe.iitkgp.ac.in +91-3222-283116	Member	Online
7.	Dr. Rajeev Ranjan	rrnitp@gmail.com	Member	Online
/•	Controller of Examination, AKU, Patna	Mobile 8102926977		
8.	Prof C P Singh	profcpsinghbce@gmail.com	Member	Online
	Head, Dept. of Mechanical Engineering,			
	DCE, Darbhanga	6206189090		
9.	Shri Bhanu Pratap Singh	spa bihar teqip@gmail.com	Invitee	Online
	SPA, Bihar	9415436559	member	
	SPIU, Taramandal, Patna, Bihar			



10.	Dr. Bushra Zaman	no acad.bihar@gmail.com	Invitee	Online
	Nodal Officer, Academics	8699511269	member	
	SPIU, Taramandal, Patna, Bihar			
11.	Prof. Achintya	dcedbg@rediffmail.com	Member	In-Person
	Principal, DCE, Darbhanga	Mob: 9835050340	Secretary	

#### Special Invitee:

- 1. Dr. M A Mokhtar TEQIP Coordinator, DCE, Darbhanga
- 2. Dr. Puja Kumari, R&D Coordinator, DCE, Darbhanga

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

 Nominee of AICTE New Delhi

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 11<sup>th</sup> Meeting of the BoG on TEQIP – III Project.

#### Agenda 1: Discussion and approval of the minutes of 10th BoG meeting

The meeting started off with the discussion on the Minutes of Meeting (MoM) of the 10<sup>th</sup> Board of Governors (BoG) meeting held on 24.02.2020. The MoM of the 10<sup>th</sup> BoG 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.

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

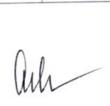
Sl.No.	Proposal/ Commitment	Action Taken
Ī	Preparation of expenditure proposal for the renovation of balcony adjacent to computer lab on 1st floor.	The assignment was planned to be carried out after Holi around mid of March. Due to Covid-19 situation, the whole focus was shifted towards its prevention and necessary action. The classes were suspended, mid-term exam (scheduled from 14 <sup>th</sup> March, 2020) had to be cancelled, hostels were vacated, district



		headquarters were locked and finally a nationwide lockdown was announced. The proposed task could not be completed.  After some relaxation in the lockdown guidelines, it was decided to convert ME faculty room into a computer lab (for 30 systems) as this seems to be achievable within the stipulated time. The installation of electrical fittings is complete and in 2-3 days from today, the lab can be made fully functional. The arrangements are made in such a way that the whole lab with all installed accessories can be shifted to new building which is now expected to be handed over in the month of July.
2	Formation of student advisory cell	We have a fully functional T&P cell in which faculty and students are the members. There is one student coordinator and five (05) student members from each department for this cell. They are consulted for their inputs on every occasion of student activities. Class Representatives (CR) are also taken into loop for discussions.
3	Preparation of detailed plan of industrial visits for students.  Approach to manufacturing units for training & exposure to students	TPO of the Institute has met General Manager, DIC, Darbhanga and received the list of Companies/Industries working in the district. Faculty members have started visiting these industries to discuss Industrial visits, trainings and placements.  A detailed report will be prepared by the end of this week.
4	Request to NPIU for the allocation of additional fund 1 to 2 crore for relocation into new building.	A request letter for additional allotment of fund of Rs. 1 crore has been sent to NPIU.
5	Cataloguing of books in library into the procured software E-Granthalaya.	Soft copy of the stock register with details of the books has already been prepared.  Cataloguing of the books will be done on E-Granthalaya once the institute gets its user-id and password.  We are in constant touch with NIC for this to be completed.



6	Preparation of detailed plan for training of students by Faculty Members who had gone through training on Future Skills Technologies at IITs.	The time table, module syllabus, list of interested students and schedule for the online training has been prepared. The training for all three modules (IoT, Robotics, Block Chain Technology) will start from 20 <sup>th</sup> June, 2020.  There will an online test by NASSCOM on each module after the classes are over.
7	Notification of the three-day conference to be organized in the institute in first week of July 2020.	Notification for the conference has not been published yet because of the constraints emerged due to lockdown. Instead, a one week workshop in online mode is being scheduled by each department. It is expected to be completed by July 2020.  Department wise one-day or two-day webinar is in progress.  CE Dept has carried out one-day webinar on recent trend in Civil Engineering on 06-06-2020. Total seven (07) faculty members gave their talk on various topics related to webinar theme.
8	Completion of remaining procurement by March 2020.	Completed.
9	Preparation of file by each faculty for containing academic / non-academic / administrative work by them monthly.	All the faculty members are instructed to prepare a file maintaining all the academic/non-academic works done by them.
10	Send request letter to Tool Room & Training Centre (TRTC) Patna, Central Institute of Plastic Engineering and Technology (CIPET) Hajipur, regarding their contribution for students' training/visits etc.	A total 68 students have completed trainings at TRTC – Patna on four different Modules for 28 days.  Training for new batch of students in online mode is being discussed with TRTC-Patna. The training may start in July 2020.
11	Request to DST for retention of TEQIP Faculty.	A letter from our BoG Chairman has been sent to the ACS, Dept. of Sc. & Tech., Bihar.
12	Request for detailed guidelines for equipping manpower for running KYP program, from DST, Bihar.	The KYP cell functioning is not to its full potential and it was decided to shift the complete unit to the new building.  Simultaneously, the requirement on manpower will be evaluated and the detailed guidelines



		will be requested from the DST, Bihar.
12	Preparation & submission of detail on	The requirement is prepared.
13	internet requirement.	It will be sent to DST for budget approval.

#### The Hon'ble members of the BoG gave following suggestions/recommendations:

 A feedback system is to be created where student can provide the feedback on regular classes as well as on the various academic activities carried out for them.

## Agenda 3: Presentation and discussions on the Progress at DCE after 10th BoG meeting.

#### A. Syllabus completion via online mode

An overall 46% syllabus was completed when the classes were suspended. The remaining syllabus was completed by the faculty members in online mode through various means such as YouTube channels, Google classroom, PPT and video sharing, etc.

#### Following are some initiatives taken for the completion of courses:

- E-contents were provided/shared to all students through various platforms such as Institute website, google drives, dropbox, WhatsApp group etc.
- Online assignments and submissions have been made for the continuous assessment of students.
- Seven faculty members have created their own You Tube channels to upload their recorded video lectures and shared the link of video with the students.
- Mr. Vishnu Singh, Assistant Professor, Mechanical Engineering Dept. has made one
  mobile app to provide the e- contents to the students.

# B. Online courses, FDP, STTP, Training, Webinar, Workshops, etc. attended by the faculty members.

During the lockdown almost all faculty members have attended more than one online course/workshops. The summary is as follows:

SN	Department	No. of online courses	No. of faculty attended
1	EEE	30	10
2	ME	17	9
3	CE	12	5
4	CSE	11	5
5	App Sc.	15	5



# C. Online courses, Internship, Training, Webinar, Workshops, etc. attended by the Students.

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.

The department wise summary is as follows:

#### Department of Electrical and Electronics Engineering

SN	Topic	Duration	Organized by	No. of Students
1	Training on AutoCAD	6 Weeks	Internshala	23
2	Training on Ethical Hacking	1 Weeks	Internshala	6
3	Advance excel	4 Weeks	IITK	02
4	Online Quiz On Nunerical Methods	-	College of Engineering Pune (COP)	19
5	Training on "Python"	6 Weeks	Internshala, Coursera, Skyfi Labs	7
6	Training on "Machine learning"	6 Weeks	Internshala, Coursera, Skyfi Labs	12
7	Training on "C & C++ Programming"	8 Weeks	Internshala	15
8	Training on "web development"	6 Weeks	Internshala	19
9	Course on Signal system	6 Weeks	NPTEL	4
10	Training on BigData, DataScience, DataAnalytics	4 Weeks	Internshala, Skyfi Labs, Future Learn	6
11	IEEE VIRTUAL TALK SERIES 2020 DIGITAL ENTREPREURSHIP	1 weeks	IEEE	2
12	Digital marketing	6	Internshala	13
13.	Android app development	6	Internshala	8
14.	Matlab & simulation Quiz	-	EEE,DCE Darbhanga	6
15	Al for Everyone	4	Coursera	1
16.	Business Communication Skills	4	Internshala	1
17	Cloud Computing Basics	6	Coursera	1
18.	Internship on SOLIDWORKS	5	Internshala	2
19	Analog circuits	12	Swayam	1
20	Digital Electronics Circuit	12	Swayam	2
21	Electrical Machine	12	Swayam	1
22	Microprocessor	12	Swayam	1
23	Wind Energy	5	Cousera	1



#### Department of Mechanical Engineering

SN	Topic	Duration	Organized by	No. of Students
1	Training on AutoCAD	6 Weeks	Internshala	63
2	Training on SolidWorks	6 Weeks	Internshala	12
3	Training on Self driven car	7 Weeks	Coursera	01
4	Online Quiz On Nunerical Methods	-	College Of Engineering Pune (COP)	01
5	Training on "Python"	6 Weeks	Internshala	18
6	Training on "Machine learning"	6 Weeks	Internshala	05
7	Training on "C & C++ Programming"	8 Weeks	Internshala	24
8	Training on "web development"	6 Weeks	Internshala	08
9	Training on "Digital Marketing"	6 Weeks	Internshala	14
10	Other Trainings like Ansys, Creative Writing etc.	4-6 weeks	Internshala	37

#### Department of Computer Science Engineering

SN	Topic	Duration	Organized by	No. of Students
1.	Data Science	29 April to 10 June, 2020	INTERNSHALA TRAININGS	60
2.	Machine Learning with Python	12-05-2020	COGNITIVE CLASS.ai	10
3.	Node-RED: basics to bots	12-05-2020	COGNITIVE CLASS.ai	10
4.	Course on "Web Development"	-	Learn code online	10
5.	C and C++	17-04-2020	IIT Bombay	30
6.	HTML, Python	17-04-2020	IIT Bombay	30
7.	Entrepreneurship	22-05-2020	GIRLSCRIPT.TECH	10
8.	PHP and MySQL	17-04-2020	IIT BOMBAY	25

#### Department of Civil Engineering

SN	Торіс	Duration	Organized by	No. of Students
1	Auto CAD Software	6 Weeks	Internshala	70
2	Soft Skills Development Program	8 Weeks	NPTEL	30
3	Digital Land Surveying & Mapping	4 Weeks	Swayam	04
4	Primavera Software	25 Days	IIT Kanpur	08
5	Revit Software	8 Weeks	IIT Kanpur	07
6	Advances in Building Technology	5 Days	CBRI-CSIR	05
7	Webinar on Recent trends in Civil Engineering	1 Day	DCE Darbhanga	80



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#### D. Students Achievements

- Three groups of students participated in Smart India Hackathon 2020. One group secured their participation in the finals of SIH 2020 and the event is scheduled on 1st and 2nd August 2020.
- One team of DCE, Darbhanga is the winner of International Hackathon organized by Massachusetts Institute of Technology (MIT), in the context of COVID 19 crisis and challenges - 'Africa Beat Pandemic'. The team competed and won for creating a solution for combating misinformation spread regarding COVID19.
- Students of DCE Darbhanga have organized an online hackathon on Innovations to defeat the Pandemic COVID19 from 23rd April to 30th April, 2020.

The Hon'ble members appreciated the efforts and development.

#### Agenda 4: Approval on the proposed Action plan for Quarter 02 (July. to Sept., 2020)

A. Action\_Plan\_Q2 (Jul. to Sept. 2020)

Reference: Annexure- I. (DCE\_Action Plan\_July\_Sept\_2020)

The BoG has discussed the Action Plan for Q2 (Jul. to Sept. 2020) and approved the Action Plan.

#### Agenda 5: Approval on academic activities for Quarter 02 (July to Sept., 2020)

A. Post facto approval on faculty/students attending conferences.

#### 1. Shweta Kumari

Conference: International Conference on Emerging Frontiers in Electrical and Electronic Technologies (ICEFEET-2020).

Venue: NIT Patna, 10-7-2020 to 11-7-2020.

Title of the paper: Effectiveness of Space Vector PWM in Three-Phase Inverter.

Registration fee: 8000/-

Estimated budget is 15,000/- which has been approved.

#### 2. Surya Rai, Khushboo Kumari, Diwakar Verma (Asst. Prof., EEE)

Conference: ICEFEET-2020,

Venue: NIT Patna from 10/7/2020 to 11/7/2020.



Title of the paper: Self supplied automatic control of street light.

Registration fee: 6000/- (students), 8000/- (faculty)

Approval on Surya Rai attending the conference has already been taken from the Hon'ble Chairman, BoG. Later Ms. Khushboo Kumari (student) and Diwakar Verma (Faculty) has shown interest in attending the conference and requested for reimbursement of registration and TA/DA.

#### Estimated budget is 30,000/- which has been approved

B. Approval on Software training for students by EICT, IIT Kanpur in online mode.

Reference: Annexure - II (DCE\_phase-I software training by EICT\_IIT Kanpur)

A 30 days online software training conducted by E&ICT Academy, IIT Kanpur for students is proposed and managed by Dept. of Sc. & Tech., Bihar. The training will be carried out in online mode for 30 days (60 Hours). Total 298 students have shown interest in attending various software training.

The training fees will be Rs. 2500/- per students per course.

#### **Estimated cost: 8 Lacs**

The approval on the same has already been taken from the Hon'ble Chairman, BoG.

## Agenda 6: Discussion on salary deduction of TEQIP Faculty from 24th March to 31st May, 2020.

A. Salary upto 24<sup>th</sup> May, 2020 for all TEQIP faculty has been disbursed except for Mr. Zoheb Hassan who left the headquarter without proper approval, before the lockdown was announced. He was available on emails and telephone and carried out the responsibility of completing the syllabus and other non-academic activities. Mr. Zoheb has joined college on 15-06-2020.

The Hon'ble members of the BoG unanimously decided to authorize Principal to make a decision on the salary disbursement of Mr. Zoheb. It was advised to take the decision in light of various office orders issued time to time from General Administration, Govt. of Bihar and Finance Dept. Govt. of Bihar.

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Agenda 7: Discussion on framing the guidelines for pursuing research work during summer and winter vacation.

The Principal apprised the Board that in the contract of TEQIP faculty, on point no 11 the guideline on availing duty leave is mentioned.

The Hon'ble members of the BoG unanimously authorized the Principal to frame the guidelines, keeping in the interest of institution, for pursuing research work during summer and winter vacation for TEQIP Faculty. The guidelines prepared by the College authority should be applicable to all the TEQIP faculty. The Hon'ble members of the BoG further authorized the Principal to make modifications in the guidelines as and when required.

Agenda 8: Decision regarding E-Honorarium to experts/resource person participating in various activities organized by the college.

The Principal apprised the Board that there is a NPIU/TEQIP guidelines on honorarium for the experts/resource person for their service in physical presence.

The Hon'ble members of the BoG unanimously approved the same guidelines to be followed while taking the service of experts/resource person in online mode. It was further emphasized that the online service should not be for less than three (03) hours per day to claim for the honorarium.

### Agenda 9: Discussion on retention of TEQIP faculty beyond September 2020.

This was already discussed in the 10<sup>th</sup> meeting of BoG held on 24-02-2020 and a letter has been sent to the ACS, Dept. of Sc. & Tech. Govt. of Bihar, Patna.

SPIU further added that an initiative for retention of TEQIP faculty of all seven TEQIP colleges in Bihar has been taken by SPIU.

Agenda 10: Discussion on performance benchmarks and its status for June 2020 and September 2020.

The Principal apprised the Board about the status of achievements of Institute on Performance benchmarks to be evaluated in June, 2020 and September 2020.



## A summary for the same is shown here

SN	Criteria	Target	Status
1	Expenditure		
	Actual Expenditure in academic activities out of PLA (academic head of expenditure)	75%	2.27 Cr.(75.6%)
2	DLIs		_
	NBA Accredited/ applied for UG programs - 50%.     Training completed for more than 70% final year students for exit exams.     BoG meetings (July 2019-June 2020): 4.     Autonomy (UGC/as per PIP)	Any 3	<ol> <li>SAR submitted for all four programs.</li> <li>GATE training completed for 76.6% final year students.</li> <li>BoG meeting conducted on 27.08.19, 27.09.2019, 09-12-2019 and 24-02-2020.</li> </ol>
3	Academic		
	Availability of online student feedback system related to faculty in the current semester with few questions on remedial classes & use of MOOCs (feedback of at least 80% faculty available)	Yes Share URL link	In Progress
	No. of subjects where remedial classes conducted (Proof for 2019-20 and July – September 20)	Min. 10 subjects all branches together	Remedial classes for 8 subjects were conducted
	3. Training on IT-ITes Skills	Number of faculty trained at IITs: 5	Number of faculty trained at IITs: Nine (09)
4	R & D		
	AT least one Collaborative research project procurement completed and experimentation work started.     At least one group of students participated in SI Hackathon or eyantra (IIT Bombay).     At least 1 patent filed by faculty/students during Apr 20 –Sept 20	Sr. no. 1 and 2 are fullfilled	



5	ICT		
	<ol> <li>Two setup boxes of SWAYAM         Prabha.     </li> <li>Access to digital contents through e-shodhsindhu/ shodhganga/ NDL/ e-PG Pathshala.</li> <li>Use of at least one open source software (FOSSEE).</li> <li>Use of at least one Virtual Lab in regular curriculum.</li> <li>30 % Faculty of institute registered on Vidwan.</li> <li>40% Faculty certified for atleast one MOOCS/ SWAYAM/ NPTEL course</li> </ol>	Any 4	<ol> <li>One set-top box of SWAYAM Prabha.</li> <li>Access to e-shodhsindhu and NDL.</li> <li>Python is being used as open source software.</li> <li>Not using any virtual lab.</li> <li>More than 50% faculty are registered on Vidwan.</li> <li>Most of the faculty are registered in minimum one SWAYAM/NPTEL Course and they are waiting for the certification exams to happen</li> </ol>

The Hon'ble members of the BoG appreciated the efforts and development made by the College in fulfilling the performance benchmark criterion. They further advised to expedite the work in order to fulfil the remaining criterion of performance benchmark before 30<sup>th</sup> June, 2020.

The Performance benchmark for September 2020 is also evaluated and it was suggested to full fill all the criterion well within specified time.

## Agenda 11: Approval of the Expenditure made under TEQIP-III up to 15-06-2020.

Reference: Annexure-III (Expenditure report)

## Summary of the expenditure upto 15-06-2020 is given in the table below.

SN	Head: Name	Expenditure (Rs.) 5,99,60,274	
1	PROCUREMENT (Total allocation: 6 Cr.)		
2	ACADEMIC (Total allocation: 3 Cr.)	2,26,90,802	
2.1	1.1.2.1: Improve Students Learning	1,11,09,803.00	
2.2	1.1.2.2: Research Assistantship	0.00	
2.3	1.1.2.3: Graduate Employability	44,83,040.00	
2.4	1.1.2.4: Faculty and Staff Development and Motivation	25,96,405.00	
2.5	1.1.2.5: Research and Development	43,734.00	



	TOTAL	8,76,44,185
3	OPERATING COST (Total allocation: 1 Cr.)	49,93,109
2.11	1.1.2.11: Industry-Institute-interaction	6,79,739.00
2.10	1.1.2.10: Hiring Consulting Services	0.00
2.9	1.1.2.9: Management Capacity Development	1,60,273.00
2.8	1.1.2.8: Reforms and Governance	31,38,920.00
2.7	1.1.2.7: Mentoring / Twinning System	2,33,728.00
2.6	1.1.2.6: Moocs and Digital Learning	2,45,160.00

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

**Total expenditure:** 8,76,44,185/- (Eight crore seventy six lacs fourty four thousand one hundred and eighty five only).

The BoG has approved the expenditure made under TEQIP III upto 15.06.2020.

#### Agenda 12: Any other matter with the permission of the Chair

## A. Disbursement of bill for English Language Communication Skills Training fees.

Reference: Annexure-IV (Cambridge Assessment English)

The Principal apprised the Board of Governors that English Language Communication Skills Training of 30 hours was conducted on the campus for the first year students from 17-02-2020 to 23-02-2020. A detailed discussion was held on this in the 10<sup>th</sup> BoG meeting (Agenda: 3(F), enclosed in annexure-IV) and the Hon'ble members of the Board were satisfied with the progress.

The contract was awarded to *Development Centre for Advance Technical Studies (DCATS)*, Patna through Services (CQS) following the NPIU guidelines incorporated in PMS. The contract awarded has to be executed in two stages:

- (a) English Language Communication Skills Training: Cost associated was four lacs only.
- (b) Certification exam, Key English Test (KET) by Cambridge Assessment English: Cost associated was 3500 per candidate for minimum 200 candidates.

(Corresponding page of the financial proposal is enclosed in the annexure-IV).

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The first part *i.e.* Training of students is completed (certificate enclosed in annexure-IV). However, the certification exam, *Key English Test (KET)*, could not be conducted due to the nationwide lockdown.

A request to disburse the training fees of four lacs only is received from DCATS, Patna (Annexure - IV).

The Principal requested the Hon'ble members of the BoG to consider the prevalent COVID-19 situation and allow disbursing the fees related to training only which has been completed.

The BoG approves the payment of Rs. Four Lacs only towards completion of the first part of the contract *i.e* "English Language Communication Skills Training"

The 11<sup>th</sup> BoG concluded with the suggestions to complete the performance benchmarks for June, 2020 and September, 2020 in due course of time. 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.

Prof. Achintya

Pringipal-duni-IPB

DCE, Darbhanga

Prof. Manas Bihari Verma

Chairman,

Board of Governors,

DCE Darbhanga