

**Technical Education Quality Improvement Program – Phase III (TEQIP-III)  
MALNAD COLLEGE OF ENGINEERING, HASSAN**

*Date: 19.12.2017*

**Meeting of Standing Committee held on 16<sup>th</sup> December 2017 in the Chambers of the  
Chairman, MCE, Hassan.**

***Members present:***

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| 1. Dr. K.S. Jayantha, Principal                                     | 12. Dr. B.R. Sujatha, HOD (E & C)        |
| 2. Dr. N.C. Shivaprakash – Academic Advisor,<br>BOG of MCE.         | 13. Dr. Y. Arun Kumar, HOD (I & P)       |
| 3. Sri. S. Krishnaswamy – Industry Invitee, BOG of<br>MCE           | 14. Dr. J. Chandrika, HOD (CS & Engg.)   |
| 4. Dr. N.S. Jyothi, Coordinator, TEQIP                              | 15. Dr. G. Shivakumar, HOD (E & I Engg.) |
| 5. Dr. H.J. Amarendra, Director, IIC & Finance<br>Coordinator TEQIP | 16. Dr. R.H. Anantharamu, Librarian      |
| 6. Dr. Y.M. Shashidhar, Procurement Coordinator                     | 17. Dr. Mohankumar Chavan (Civil)        |
| 7. Dr. M.S. Srinath, Academic Coordinator                           | 18. Dr. A.J. Krishnaiah                  |
| 8. Dr. M.K. Ravishankar, Dean (Admn.) and HOD<br>(Automobile Engg.) | 19. Dr. S. Pradeep                       |
| 9. Dr. C.V. Venkatesh, HOD (Mech) and Dean – PG                     | 20. Sri. Chandrashekar, I/c - IS &E      |
| 10. Dr. K. Manjunath, HOD (Civil)                                   | 21. Mrs. Triveni C. L. (E&C)             |
| 11. Dr. Vishwanath Hegde, HOD (E & E Engg.)                         | 22. Mrs. Indira Bahaddur (E&C)           |
|   | 23. Mr. Mahesh S.S. (I&P)                |
|   | 24. Neethu V.S. (E&E)                    |

The Principal welcomed all the members to the meeting.

The Heads of the Departments presented the proposals for procurement of equipments and proposals for the conduction of FDPs / SDPs during the first quarter of TEQIP at the meeting. It was resolved that all the departments shall submit tentative action plan for the complete project duration (Aug. 2017 – July 2020).

The following proposals for the Procurement are approved by the Committee

Sl. No	Package Name	Item details	Procuring Department	Method of procurement	Estimated cost excluding tax (In Rupees)
1.	MCE-IS-IOT	Arduino Uno R3 with USB Programming cable & Raspberry Pie	IS & Engg	Shopping	61,025
2.	MCE-EI-PICL	Items for up-gradation of process Instrumentation & Control Lab	E&I Engg	Shopping	9,90,000
3.	MCE-MECH-CMC & VMC	Setting up of CNC Machining Facility	Mech Engg	Shopping	33,00,000
4.	MCE-MECH-EWM	Setting up of Metallographic lab	Mech Engg	Shopping	18,79,000
5.	MCE-IP-3D Printer	3D Printer	I&P Engg	Shopping	80,000
6.	MCE-IP-EDM	Electric Discharge machine	I&P Engg	Shopping	8,00,000
7.	MCE-IP-LSRM	Lab Scale Rolling Mill	I&P Engg	Shopping	12,25,000
8.	MCE-IP-EPL	Tool Kit & equipments for Project lab	I&P Engg	Shopping	2,00,000

9.	MCE-CIVIL-HT	Brinell cum Rockwell hardness tester & other equipments	Civil Engg.	Shopping	22,74,200
10.	MCE-CIVIL-	Automotic titrator , Desiccators, Electric oven & other equipments	Civil Engg.	Shopping	2,50,000
11.	MCE-AUTO-BCS-	ES 200 BOSCH Car /Vehicle/Automotive scanner.	Automobile Engg.	Direct Contract	1,00,000
12.	MCE-AUTO-ETS	Single cylinder , CRDI with EGR & open ECU, VCR Computerized engine test setup	Automobile Engg.	Shopping	10,00,000
13.	MCE-AUTO-FIT	Fuel Injection Trainer, ABS System trainer & other equipments	Automobile Engg.	Shopping	6,50,000
14.	MCE-AUTO-CWB	Computerized wheel balancer & other items	Automobile Engg.	Shopping	3,65,000
15.	MCE-AUTO-GA	AVL 444 N-4 Gas analyser & AVL 437C smoke meter	Automobile Engg.	Direct Contract	4,50,000
16.	MCE-CS-CI	Campus wide private cloud infrastructure & Hosting infrastructure	CS & Engg.	Direct Contract	9,70,000
17.	MCE-CS-Osci	25Mhz Analog Oscilloscope	CS & Engg	Shopping	46,000
18.	MCE-CS-Server	Virtualized rack mount server & storage devices	CS & Engg	Shopping	12,50,000
19.	MCE-EC-LRP	Light Runner Premium	E&C Engg	Direct Contract	7,00,000
20.	MCE-EC-OSCI	Oscilloscope, signal generators & other equipments	E&C Engg	Shopping	16,20,000
21.	MCE-EC-LUM	Lumerical 02 years & FDTD Soluation	E&C Engg	Direct Contract	8,63,689
22.	MCE-EE-AVM	Ammeter, Voltmeter & signal generator's	E&E Engg	Shopping	13,10,680
23.	MCE-EE-TIM	Transformer & Induction motors	E&E Engg	Shopping	2,50,000
24.	MCE-EE-PEB	Pic Evaluation Board	E&E Engg	Shopping	2,21,285
25.	MCE-EE-DSP	DSP Based speed control of SRM motor & other equipments	E&E Engg	Shopping	3,91,300
26.	MCE-EE-FCT	Fuel Cell Trainer other equipments	E&E Engg	Shopping	5,13,400
27.	MCE-INST-MATLAB	MATLAB - Standard Configuration for TAH (3 Years)	Institution	Shopping	25,00,000
28.	MCE-INST-LAPTOP	Laptops - 8 <sup>th</sup> Generation Intel® Core™ i7-8550U Processor (8MB Cache, up to 4.0 GHz) 16GB, DDR4, 2133MHz, 512GB Solid State Drive (2 Nos.) 7 <sup>th</sup> Generation Intel® Core™ i5-7200U Processor (3MB Cache, up to 3.1 GHz) 8GB, 2400MHz, DDR4 (18 Nos.)	Institution	Shopping	10,80,000
29.	MCE-NCC-SOFT	AP management license for SZ-100/vSZ	Institution	Direct Contract	12,70,950
30.	MCE-LIB-DIGI LIB	Digital library up gradation	Library	Direct Contract	59,000
31.	MCE-NCC-EQPT	AP management license for SZ-100/vSZ	Network Control Center	Direct Contract	12,70,950

The following proposals for the conduction of Workshops/Seminars/Conferences are approved by the Committee

Sl. No	Dept.	Name of the Co-ordinator	Tentative Date	Name of the Workshop/Conference	Targeted Participants	Estimated cost (in rupees)
1	IS & E	Mr. Tejonidhi M. R. Mr. Sudarshan G.K.	02/02/18 to 3/02/18	Computer Hardware, Network maintenance and Trouble Shooting	Technical Staff	47,000
2	IS & E	Ms. Shruthi D.V. Ms. Vinutha M.R.	Feb. 2018 (5 Days)	PYTHON Programming	Students	1,00,000
3	IS & E	Ms. Vinutha M.R.	23-03-18	Latex for Technical Report Writing	Students	37,000
4	IS & E	Dr. Uma B.	15-02-18	How Stuff Works	Students	51,400
5	IS & E	Dr. Uma B.	15-02-18	IoT and its Application	Students	50,000
6	IS & E	Dr. Uma B.	15/01/18 to 18/01/18	Excel made easy	Administrative Staff	64,000
7	IS & E	Mr. Chandra Shekar H. S.	23/03/18 to 25/02/18	Web Portal Development	Students	1,24,200
8	IS & E	Dr. Uma B.	15-01-18	Science in Kitchen Experiment	Students	51,400
9	I&P E	Dr. Y. Arun kumar Dr. M.S. Srinath.	05/02/18 to 09/02/18	Advanced Manufacturing processing Techniques	Faculty	4,37,500
10	I&P E	Mr. Hemanth Mr.S.S. Mahesh	03/02/18 to 07/02/18	Industrial Visit for Students	Students	3,73,400
11	I&P E	Dr. Y. Arunkumar Mr. Hemanth T. S.	June 2018	Collaborative and digital manufacturing	Faculty	4,37,500
12	E&C E	Mr. Venkateshwara Rao kolli Ms. Indira bahaddur	26/02/18 to 02/03/18	Emerging trends in photonics Technology	Faculty	2,85,000
13	I&P E	Mr.S.S. Mahesh Mr. Ravi kiran D. N.	26/02/18 to 28/02/18	Three days training on Hydraulics and pneumatics	Students	1,13,500
14	Computer Science Engineering	Dr. Ramesh B. Mr. Keerthi K.S.	Feb-18	Three days Workshop on on Programmig Skills .	Students	1,58,700
15	Computer	Dr. Ramesh B. Mrs. Sunitha R.	Mar-18	Two day National level Workshop o Network	Faculty	78,900

	Science Engineering			Simulation and Research Challenges in Net working		
16	I&P E	Dr.Y. Arun kumar	05/01/18 to 07/01/18	"Application of finite Element Analysis in Industrial Product Design"	Students	2,69,500
17	Institution Level	Mrs. Neethu V.S, Mr. Dusyanth kumar	16/02/18 to 17/02/18	Two day Workshop on Artificial Intelligence	Students	73,500
18	Civil Engineering	Dr. Mohan Kumar Chawan Dr.A.J. Krishnaih	11/05/18 to 13/05/17	International Conference on Recent Advances in Infrastructure Development (ICRID-2018)	Faculty & Students	15,00,000

Dr. N.C. Shivaprakash, Academic Advisor, and Mr. S. Krishnaswamy, Industry Invitee BOG of MCE made the following suggestions:

1. Wi-Fi facility in the college needs to be up-graded.
2. Every department should apply for GIAN courses within the next 1 to 1½ years which helps MCE for 6 years of NBA accreditation.
3. Key performance Indicators (KPI) for TEQIP I and TEQIP-II to be prepared by each of the departments (including GATE qualifiers numbers)
4. ERP for admissions to course completion of students which also includes finance, purchase, faculty data base etc. (This can be negotiated with Dr. AIT, Bangalore)
5. For Civil Department a strategic plan for consultancy for next 3 months needs to be prepared.
6. For conducting FDP/SDP, it is advised to explore the services from NITTR, IIT's etc.
7. Capacity enhancement for Dean / HoD's to be done by deputing them to IIMs.
8. More focus to be given towards spending money on soft components.
9. Some innovative projects with ISR (Institute Social Responsibility) to be encouraged.
10. The corpus fund shall be 8% for TEQIP-III.
11. Sincere efforts to be made towards getting accreditation for all PG programs.
12. New innovations to be done in laboratory experiments.
13. Involve Mathematics, Physics and Chemistry departments to conduct joint conferences and project proposals.
14. Encourage multi-disciplinary project for UG students.
15. Start innovation in engineering as one credit course.
16. E & C Engg., it is advised to apply for projects to SENSE in IISc, Bangalore
17. Efforts are to be made towards attracting quality students.
18. It is advised to form a cluster of faculty across all the departments to have a culture of developing innovative projects (inter disciplinary)

19. For choice based credit system (CBCS) area of specialization to be focused and open elective Global elective systems are to be imbibed.
20. It is advised to create centre of Excellence for each department, which can be realized during TEQIP funding.
21. During TEQIP, it is advised to attract more number of Ph.D. scholars as regular candidates and come out with quality publications.
22. To maintain the quality of publications, it is necessary that each department should decide upon the category of Journals and publications shall be done in those journals only.
23. It shall be made mandatory for PG students to publish in Journal and enough encouragement be given to UG students for publishing in conferences and journals.
24. Here onwards, the proposals for conducting conferences / FDP's / SDP's etc shall contain the details of resource persons / experts beneficiaries.
25. It was advised to visit CAIR (Centre for Artificial Intelligence & Robotics) to have innovative wear for mini / macro projects.
26. The 3D printer facility shall be made as a centralized facility.
27. All the departments are advised to have one project lab with basic requirements to conduct innovative projects. Industry participation shall be explored in establishing project labs.
28. There shall be a effective peer mentoring system and letter of appreciation be issued to all the mentor students. (All these are to be quantified)
29. Self Diagnosis modules in line with the one which exists in COEP Pune shall be explored and should be implemented.
30. It is mandatory that every department have SWAYAM courses (to be a credit courses) / MOOC's certification.
31. It is advised to have common laboratories for subject like microcontrollers, MATLAB, etc across allied departments.
32. Explore the possibility of having common server for major departments.
33. There shall be a platform for exhibition of projects done by the students. It is advisable to have continuation projects by involving students from first year to final year. The projects should turn out to be a products. There shall be documentation with specifications for each of the projects done.
34. Smart grid projects shall be carried out jointly by E & E and E & I departments.
35. It is necessary that, all the proposals for next 2 years are to be submitted to TEQIP.
36. Norms for finalizing the reimbursement of amount for MOOC's certification courses shall be drawn, before payment.
37. All the students be exposed to Python program during vacations. It is advised to have Latex awareness for all UG and PG students.
38. IoT lab (inter-disciplinary) shall be established.

39. It is necessary to introduce library hour in the curriculum as an activity for the students across all the departments.
40. HoDs are requested to go through the strategic plan of the institution and plan the course of action till 2020 from January 2018 and the same to be presented in the next BOG.
41. It is necessary to look into the compliance report of NBA and convert atleast all the D into W and W to C and C to Y so as to plan for 6 years of accreditation in the next attempt.
42. Apply for PG accreditation in the next 18 months.
43. Semester End reviewing of attainment to be done and CO's to be revised (if needed).
44. It is necessary to go for academic audit (both internal and external).
45. Review the status of Ph.D. candidates across all the departments.
46. It is necessary to have NABL accreditation for all the laboratories.
47. Senior faculty shall be encouraged to produce MCE lecture series, which can be shared to neighboring institutes.
48. A documentary film to be made for 10 minutes for each department, having bits from students, parents, alumni and teachers.
49. The future proposals for funding agencies shall have focus on Health sector, agriculture sector, societal problems with the participation of NGO's, where there are fair chances of getting grants.
50. Explore the possibility of private funding for some projects and have a MOU.
51. Motivate the students to clear GATE, IES and other competitive examinations and conduct a eligibility test for reimbursement of the GATE fee.
52. MODROB proposals for laboratory are to be considered seriously.
53. The major equipment / Centralized facility and Lab details to be displayed in the college website.
54. The proposal for conduction of short term courses and FDPs
  - Tentative dates to be mentioned in the proposal
  - Separate courses for faculty, students and technical staff.
  - Institute level programs for subjects like Python are to be organized.
  - The proposals should be planned in such a way that the workshops/STTP of 5-6 days should be planned during vacation.
  - Involvement of the Industry experts to be made.
  - Certification courses are to be conducted for the benefit of the students and motivate them to participate.
  - Programs on Skill Development are to be organized.
  - Give importance to interdisciplinary programs and motivate students to take up interdisciplinary projects.

55. Industry Advisory Board is to be established in each of the departments which may help in Internships, Employability, Placements, Research projects and electives taught by Industry experts, increase in MOU.

- Develop industry based laboratories and make sure the involvement of industry in curriculum development.

56. Remedial classes to be taught by the faculty other than the faculty who have taught in the regular classes.

57. Develop peer mentoring system and issue appreciation letters to mentors.

58. Plans to be made for the introduction of ADD ON courses in open electives, introduction of value added courses, etc.

59. It was resolved to review the process of mapping COs and POs for the previous semesters.

HoDs are informed to send the CO-PO attainment to Dr. N.C. Shivaprakash for fine tuning.

60. It was resolved to do the Academic Audit once in 2 years which includes the road map of forth coming years and also include the outcomes of TEQIP-I/II

61. Steps for twining agreement

- Involve all the departments for mentoring Jorhat Engineering College in the following reforms:

- Academic Reforms
- Exam Reforms
- Administrative Reforms
- NBA Accreditation

62. Prioritize the proposal and purchase of equipments should be made with consultation of related departments

- Mechanical Engg. / Industrial & Production Engg. / Automobile Engg.
- Computer Science & Engg. / Information Science & Engg.
- Electrical Electronics Engg. / Electronics Engg. / Electronics & Instrumentation Engg. / Civil Engg.

63. Meeting Schedule

- HoDs, Deans and Co-coordinators once in every 15 days duration.
- Weekly meeting in the department on TEQIP
- Faculty meeting in the department level
- Weekly meeting of TEQIP Coordinators

64. Preparation of compliance report of NBA and steps initiated to improve from the present grades.

65. NAAC, NABL accreditation to be done. Steps towards submitting application for NBA accreditation of PG programs are to be initiated.

66. Planning for the Innovation / Incubation labs

67. Steps for Internal Revenue Generation (IRG) from the Alumni base etc., and find other private funding agencies to enhance consultancies across all the departments.
68. Energy audit to be done to reduce the electricity consumption bill.
69. Presentation of papers in quality conferences by Professors, Associate Professors and Asst. Professors is to be made compulsory. The quality of the conferences are to be assured by the concerned department.
70. Inspire faculty and students to take up NPTEL and MOOC courses and the financial norms are to be set for the selection of courses.
71. Programs on SAP are to be coordinated by ISE and CSE departments.
72. It was resolved to give the specification for the purchase of Cloud computing and purchase of Servers to Sri. S. Krishnaswamy for review.

Meeting was concluded by Vote of Thanks by Dr. N.S. Jyothi, TEQIP Coordinator.



**(Dr. K.S. Jayantha)**  
Principal