

बा. क्र. 237, दिनांक 10/11/2016

उपकरण विभाग

शासकीय अभियांत्रिकी महाविद्यालय, जळगाव



## GOVERNMENT COLLEGE OF ENGINEERING, JALGAON

(An Autonomous Institute of Government of Maharashtra)

NH-06, JALGAON – 425002, M.S.

Phone No.0257-2281522

Fax. No.0257-2281319

Email:- [princoeje@rediffmail.com](mailto:princoeje@rediffmail.com)

web:- [www.gcoej.ac.in](http://www.gcoej.ac.in)

No. GCOE J/INSTRU/BOS/2016/ 237

Date: ~~22/04/2016~~

10/11/2016

To,  
Hon'ble Members,  
Board of Studies- Instrumentation Engineering,  
Govt. College of Engineering, Jalgaon.

Subject: Minutes of Meeting of the Third Board of Studies of Instrumentation Department meet held on Wednesday 28th September 2016.

Dear Sir/Madam,

The Fourth meeting of Board of Studies of Instrumentation Department was held on Wednesday 28th September 2016. Following members were present for the meeting.

Dr. R. D. Kokate (Chairman BOS), Dr. G. M. Malwatkar, Dr. Nitin J. Patil (Member, from other Institute), Prof. A. M. Dongardive, Prof. S. S. Nerkar, Shirish Adam, Prof. Mahesh S. Patil, while Prof. A. A. Ansari, Dr. C. Y. Patil, Dr. B. B. Musmade, Prof. M. M. Akole, Mr. Sandip Sankpal and Mr. Sandeep Hanvate has communicated their absences due to emergency official work. Their leave was noted and absence was also noted.

Meeting started with welcome of all Hon. Members by chairman. Following points of the agenda notes were discussed at length and some suggestions and conclusions were drawn unanimously which are given below

### Item No 1

**To read and confirm the minutes of third meeting of Board of studies of Instrumentation Engineering Department held in the meeting hall of institute on Saturday, April 19; 2016.**

Chairman briefed to all members about the discussions and actions on the minutes of meeting of third BOS which were noted and confirmed.

### Item No 2

**To note and approve the action taken by institute on the agenda points discussed and resolved in the earlier meetings of Examination Committee.**

BoS noted and approved the action taken by department on the agenda points discussed and resolved in the third meeting of BoS.

### Item No 3

**To note improvement/addition in the academic facilities of the department and other achievements of the department after the last meeting of the BOS.**

BoS noted and appreciated the improvements/additions in academic facilities of the department and other achievements of the department after the third meeting of BoS. BOS has noted and welcomed the new

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senior faculties Dr. R. D. Kokate and Dr. G. M. Malwatkar who joined the department recently. BOS is also of the opinion that department should get the research lab approved as early as possible from university so that the faculties and students will get benefitted from the same. Chairman informed members about the training programs conducted for the students since last BOS meet. BOS appreciated the initiatives taken by the department in organizing various training programs under TEQIP.

**Item No 4**

***To note and discuss the result and result analysis of sem III and sem IV of SY.BTech Instrumentation Engineering. . (Agenda point presented by Hon. Result Analysis Coordinator)***

The result for third semester of S.Y B. Tech Instrumentation was discussed and members expressed their concern about poor result of course IN254 (Sensors and Transducers). BOS suggested that senior faculty should be appointed for this course and practical oriented training should be arranged.

**Item No 5**

***To discuss and approve Final year curriculum (Syllabi) of UG program in Instrumentation Engineering for this Autonomous Institute. (Agenda point to be presented by Hon. Members of Departmental Faculty Board)***

Course-wise syllabus of Final year BTech prepared by members of the Departmental Faculty Board has been discussed thoroughly. Members suggested following recommendation/ changes in proposed curriculum contents.

Related to all courses-

- Course Description, Course objectives and Course outcomes should be defined / edited properly as per the course contents.
- PO mapping should be done properly for all courses as per NBA guidelines.
- Standard publication books to be referred for the designing syllabus and incorporating the same as text books.
- Text books (only 2-3) and Reference books should be given separately.
- For lab courses the availability of current laboratory equipments/infrastructure should be checked. If any shortfall as per the syllabus designed, list should be put before next BOS.
- Number of experiments/practical for lab courses should not be less than ten.

Name of course	Recommendation/ changes
IN401 Digital Image Processing.	Wavelet transform should be added.
IN402 Biomedical Instrumentation	Course description to be edited.
IN403 Project Planning and Estimation	Project management unit to be removed from the course content. In-tools software to be added. The course content of IN301 Industrial Automation and Management and SH 351 Entrepreneurship and Business Management should be checked for finalizing the syllabus of this course.
IN404A PLC & DCS (Interdisciplinary Elective)	Title of section Industrial Applications of Automation Tools Should be replaced by Industrial Communication and Protocols Plant section should be labelled as Industrial Applications Final unit/section should be finalised and put before next BOS.

IN404B Virtual Instrumentation and LabView (Interdisciplinary Elective)	Dr. G. M. Malwatkar has raised the point that the course title should not have the name of particular software though it is being used for the course. The title of IN404B Virtual Instrumentation And Labview should be changed as IN404B Virtual Instrumentation. External member Dr. Nitin J. Patil suggested that title can be changed but the course contents related to the software should not be removed, as it is the extensively used software in the field of Virtual Instrumentation. Department Faculty Board (DFB) should give a thought on title and content.
IN405A Industrial Drives And Control	Course Contents approved
IN405B Environment Instrumentation	Importance of subject and general application areas should be mentioned.
IN405C Fiber Optics And Laser Instrumentation	Course title may be changed to Optical Instrumentation. Contents should be added / refined.
IN405D Soft Computing	Syllabus of this course has not been put before this BOS. It should be finalized and put before the next BOS. Programming tools and optimization techniques may be added.
IN406 Digital Image Processing Lab	Minimum practicals should be ten. Only Study practical should be replaced by design and implement. Segmentation and other practicals may be added.
IN407 Biomedical Instrumentation Lab	Course Contents approved
IN408A Industrial Drives And Control Lab	Syllabus of this course has not been put before this BOS. It should be finalized and put before the next BOS.
IN408B Environment Instrumentation Lab	Course Contents approved
IN408C Fiber Optics And Laser Instrumentation Lab	
IN408D Soft Computing Lab	Syllabus of this course has not been put before this BOS. It should be finalized and put before the next BOS.
IN409 Project Phase-I	BOS suggested that Project must be divided into stages. Project coordinator will finalise the evaluation method that should be put before the next BOS. There should be some Industry sponsored projects.
IN410 Seminar	The evaluation method for this course should to be finalized and should be put in next BOS meeting
IN451 Instrumentation System Design	Refinement in reliability section and PCB designing should be removed.
IN452 Process Instrumentation	From Analysis of control loop section SLP features, faceplate, functions, MLPC features, faceplate, functions, SLPC and MLPC comparison. Scaling: types of scaling, examples of scaling may be removed.

*Adem*

*[Signature]*

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	<p>From feedback control Correlations for tuning Constants, Fine Tuning of the controller tuning Constants may be removed.</p> <p>From Multi-loop and nonlinear systems section Controller Algorithm and Tuning may be removed, Process control design section may be removed and Nonlinear control may be added.</p>
IN453A Power Plant Instrumentation	Title of section Boiler Ancillaries to be changed to Thermal Power Plant, Boiler Control to be changed to Boiler Instrumentation.
IN453B Agriculture Instrumentation	<p>Titles to be added to each section. Rearrange the flow of sections. Preferably Seciton1- Seciton3- Seciton2- Seciton4- Seciton5- Seciton6</p> <p>Text books to be added</p>
IN453C Computer Networks	Titles to be added two some sections. Text books to be added
IN453D Neural Network & Fuzzy Logic Instrumentation	No units' concept so to be removed. Section I and section II to be clubbed in one section. Section III and section IV to be clubbed in one section.
IN454A Optimal And Adaptive Control	Syllabus of this course has not been put before this BOS. It should be finalized and put before the next BOS.
IN454 B Nano Instrumentation	BOS approved the change in the title of the course to MEMS and Nano Instrumentation. Syllabus to be changed accordingly.
IN454C Automotive Instrumentation	Section related to Introduction to Automobile industry and Plant to be added in first section.
IN454D Embedded Systems	E&Tc boards' syllabus may be referred before finalization of syllabus of this course.
IN455 Instrumentation System Design Lab	Syllabus of this course has not been put before this BOS. It should be finalized and put before the next BOS.
IN456 Processs Instrumentation Lab	Syllabus of this course has not been put before this BOS. It should be finalized and put before the next BOS.
IN457A Power Plant Instrumentation Lab Elective-II Lab	Syllabus of this course has not been put before this BOS. It should be finalized and put before the next BOS.
IN457B Agriculture Instrumentation Elective-II Lab	Syllabus of this course has not been put before this BOS. It should be finalized and put before the next BOS.
IN457C Computer Networks Lab Elective-II Lab	Syllabus of this course has not been put before this BOS. It should be finalized and put before the next BOS.
IN457D Neural Network & Fuzzy Logic Instrumentation Lab Elective-II Lab	Syllabus of this course has not been put before this BOS. It should be finalized and put before the next BOS.

**Item No 6**

***To discuss the formation of panel of experts and course coordinators for various courses in second year and third year Instrumentation curriculum.***

- 6.1 Course-wise course coordinators for various courses in second year and third year have been discussed and BOS expressed satisfaction over active participation of most of the members.
- 6.2 Detailed list of panel of experts for various courses in second year and third year Instrumentation curriculum has been discussed and BOS approved the same.


**Item No 7**

***Any other point by the permission of chair-***

- 7.1 BOS approved the change in the title of the course to MEMS and Nano Instrumentation.
- 7.2 The changes suggested in IN203 Computational Methods and Programming course has been approved by BOS.

Honorable members noted and recommended these changes and put forward it for approval in APEC.

Meeting concluded with vote of thanks by Shirish Adam.

  
(Shirish Adam) 10/11/2016.

Member Secretary, BOS Instrumentation  
Government College of Engineering, Jalgaon

  
(Dr. R. D. Kokate)

Chairman, BOS Instrumentation  
Government College of Engineering, Jalgaon

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- Copy To:
1. Honourable Chairman Academic council.
  2. Dean, Academics.
  3. All Hon. Members.