14th BOS Meeting
17-07-2021

Minutes of the meeting held on 17-07-2021 at 11:00 AM at Seminar Hall, Department of Industrial and Production Engg, Mysuru

Bos members present

1. Dr. K.M. Subbaiah
   Prof and Head, Chairman - Bos
   Dept of IPE, NIE, Mysuru

2. Dr. Y.S. Varadarajan
   Prof, Dept of IPE, NIE, Mysuru

3. Dr. H.N. Divakar
   Prof, Dept of IPE, NIE, Mysuru

4. Dr. M. Mohan Ram
   Prof, Dept of IPE, NIE, Mysuru

5. Md. Ismail
   Assoc Prof, Dept of IPE, NIE, Mysuru

6. Dr. A. Shatsh Ram
   Assoc Prof, Dept of IPE, NIE, Mysuru

7. Ms. Rashmi S.N
   Asst Prof, Dept of IPE, NIE, Mysuru

Signatures

K.N.
Y.S. Varadarajan
H.N. Divakar
Mohan Ram
Md. Ismail
A. Shatsh Ram
S.N. Rashmi

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Internal Members

8. Dr. Arun Kumar Y
   Prof. and Head, IPE, MCE, Hassan

9. Dr. C.K. Nagendra Gupta
   Prof. and Head, IEM, RVCE, Bengaluru

10. Dr. Deepak Q
    Asso. Professor, Dept. of Mechanical and
    Manufacturing, MIT, Manipal

11. Mr. Pravinrao Kumar M.T
    Vice President - HR, Toyota Kirloskar
    Auto Parts Pvt. Ltd., Bengaluru

12. Mr. Deepak B.R
    Senior Manager - MPS, Automotive Parts,
    Mysuru

13. Mr. Ganesh B
    Senior General Manager, Bosch Ltd.
    Bengaluru

OTHER FACULTY MEMBERS

14. Mr. Santosh Kumar
    Asst. Prof., IPE, NIE

15. Mrs. T.S. Nandini
    Asst. Prof., IPE, NIE

16. Mrs. B.M. Lathe
    Asst. Prof., IPE, NIE
17. Dr. Vadivel S.M  
    Asst.Prof., IPE, NIE

18. Mr. Deepak D. Adiga  
    Asst.Prof., IPE, NIE

19. Mr. Maadhug  
    Asst.Prof., IPE, NIE

AGENDA:

To consider and approve:

a) Blown up syllabi of 3rd and 4th semesters of BE program for the academic year 2021-22 [2020-24 batch of students].

b) Blown up syllabi of 5th and 6th semesters of BE program for the academic year 2021-22 [2019-23 batch of students].

c) Blown up syllabi of 7th and 8th semesters of BE program for the academic year 2021-22 [2018-22 batch of students].

d) Curriculum structure and detailed syllabi for the M.Tech Production Engineering and System Technology programme for the 2021-23 batch of students.

e) Finalizing the scheme, structure and coarse syllabus for 3rd to 5th semester of BE degree Course in Industrial and Production Engineering for 2021-22 batch.

f) Any other subject with the knowledge of the members.
PROCEEDINGS:
The chairman of the department welcomed all the BOS members online for the 14th BOS meeting.

Dr. K.M. Subbaiah, Head of the department, presented the blown-up syllabi for UG program for the academic year 2021-22 for all the batches. The syllabus was approved with a few suggestions from the BOS (meeting) members.

Following suggestions were given by BOS members

1. Dr. Deeptak D
   * Modelling to be included with CAED or CAM.
   * Analysis part should be separate entity.
   * All the courses are well placed.

Dr. K.M. Subbaiah pointed out that the course content of the above said courses is quite elaborates in both the courses and may not be possible to merge them. After deliberation, it is decided to continue the two course and as an individual one only.

2. Dr. C.K. Nagendra Gupta
   * Syllabus is well balanced
   * Keeping the current trends in mind to boost the UPE so that majority of students opt for the same, he made a presentation on global trend in Industry 5.0, and emphasized on the importance of courses like AI, Robotics, Automation, Data Science, Digital Manufacturing, Product Design and Development, Ergonomics, etc.
Bos members highlighted that a few of the subjects mentioned above are already in the programme. Efforts will be made in future to include Artificial Intelligence, Data Science and robotics with respect to the current trends in engineering.

To impart knowledge on the current technologies and its importance nowadays, it was suggested by the Bos members to introduce a new elective course namely Internet of Things (IP7E304) for the VII Semester.

Some slight modifications made in the few courses were taken approval during the Bos meeting and were approved by the members.

In the Course, Materials Science and Metallurgy (IP3E304), Characterization and testing of Composites is incorporated.

In the Course, Manufacturing Processes - II (IP4E303), Rapid prototyping: Introduction to additive manufacturing, types: Stereolithography, 3D printing (3DP), laminated object Modelling (LOM), its important applications is included.

In the Course, Lean Manufacturing System (IP6E303), Sigma Six is included.

In the Course, Operations Research (IP7E301) in the SLE Component, problems on practical application is added.

Engineering Thermodynamics (IP3E305), Principle of operations of heat exchangers and in SLE applications of fans is introduced.
In the Course, Product Design and Development (IP8E601) Case studies on product development and design thinking is added in the SE Component.

In the Course, Finite Element Analysis (MPT2402): Finite Element analysis of thin plate, Finite element analysis of thick plates, Finite element analysis of shell is added.

For the tutorial component: Analysis of thin plate, analysis of shell is been incorporated.

In the Course, Joining of Materials (MPT2403): Review of research papers on the topics for few modules is introduced.

In the Course Non Destructive Testing: Electron Beam Welding, Laser Beam Welding, Explosion Welding, Diffusion Welding, Ultrasonic Welding, advantage and limitations is added.

In Concluding the meeting the Chairman appreciated the efforts of the external Bos members for their time in going through the contents of both UG and PG program and giving relevant suggestions for improvements in the courses.

The Head of Department thanked all the Bos members for attending the Bos meeting online and for providing their valuable inputs. Finally, the Chairman assured the members that the changes will be incorporated which will be submitted for approval in the Academic Council.

Dr. K. M. Subbaiah M.E., M.Tech., Ph.D.
Professor and Head
Department of Industrial and Production Engg.
The National Institute of Engineering
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