

Bapatla Engineering College :: Bapatla-522101

Minutes of the Autonomous Academic Council meeting held at 10-30 a.m. on 4-1-2014

A G E N D A

- 1) To apprise the members about the progress of autonomous system and achievements of the college during the academic years 2012-13 and 2013-14.

The members are apprised about the progress of the autonomous system and the achievements of the college during the academic years 2012-13 and 2013-14 through a PPT (Power Point Presentation).

- 2) To discuss and review the existing academic regulations.

The members are apprised about the existing academic regulations and it is resolved that they may be followed *in toto*.

- 3) To discuss and review the Scheme of Instruction and Syllabi proposed by the Boards of Studies of all the departments.

All the Heads of engineering streams/ Chairmen – BOS have presented the scheme of instruction and syllabi of their branches proposed to be implemented with effect from 2014-15 academic year. The following opinions are expressed by different members.

- a) Dr. K.Lakshmi Prasad has suggested that credits should be correlated with contact hours. He has also suggested that the total number of Course credits and Semester credits should be made uniform as closely as possible within a small range of variation. He has advised to design the composition of the Curriculum as per the guidelines of the statutory bodies.
- b) Prof. P.Siddaiah has advised to explore the possibility of introducing a Practice School with component in the final year curriculum.
- c) Sri M.Murali Krishna has suggested to introduce software based Courses for Engineering Drawing and Electrical Engineering Drawing.
- d) Sri Chetan Rajdev has stressed the need of taking into account the industry requirement while framing the revised curriculum so that labs are included in the curriculum, reflecting the present day technologies used in industry. Upon the request of the President, Bapatla Education Society, he has readily agreed to arrange guest lectures by industry experts.
- e) It is suggested that all the experiments in a laboratory Course should be designed so that they result in a case study.
- f) It is suggested to include Metallurgical Thermodynamics in the curriculum of Chemical engineering.
- g) It is suggested to include a subject on Oil Hydraulics in the curriculum of Civil engineering.
- h) The following suggestions are made to the curriculum of Electronics & Communication Engineering (ECE) Course.
 - i) To introduce one object-oriented Programming Course with associated lab.

- ii) To introduce a Course on Advanced Microprocessors.
 - iii) To include Courses on Machine learning and Artificial intelligence.
 - i) It is suggested to include a Course on Servo Motors and Servo Controls in the curriculum of Electronics & Instrumentation Engineering (EIE) Course.
 - j) It is suggested to restructure the curriculum in terms of ordering of the Courses like Prime movers and Pumps; Digital Signal Processing and Circuit Theory-II in the curriculum of Electrical & Electronics Engineering (EEE) Course.
 - k) It is suggested to include two Courses on 'Automation' – Basics of Automation in III Year B.Tech. and Advanced Automation in Final Year B.Tech. in the curriculum of Mechanical Engineering (ME) Course.
 - l) It is suggested that the curriculum for Information Technology Course should be different from the curriculum of Computer Science & Engineering and should include Courses like Data Analytics and Technologies related to IT-enabled services. It is also suggested to have an IT Workshop in place of conventional Mechanical Workshop. Reordering of some of the subjects and electives is also suggested.
- 4) To apprise the members about the activities of the Bosch Rexroth Center of Competence, Siemens Center of Excellence, Microsoft Innovation Center and Robotics Technology Center.

The members are apprised about the activities of different centers of innovation and competence in the Research Park. The experts have congratulated the efforts of the management in establishing the Research Park. The experts have suggested that Certificate Courses should be offered by these centres. The centres should also form the platform for taking up innovative projects in collaboration with industry for Final year students of all the branches of engineering. The experts from industry have promised that they will extend their cooperation in getting industry collaboration to the college.

- 5) To discuss about the incorporation of Research and Innovation driven curriculum in engineering.

It is suggested to strengthen the curriculum by continuous updations from industry and Research bodies.

The Principal thanked the members and experts for their valuable suggestions.



(P.VINOD BABU)
MEMBER SECRETARY
ACADEMIC COUNCIL (AUTONOMOUS)