



# ADITYA ENGINEERING COLLEGE

An Autonomous Institution

Approved by AICTE • Permanently Affiliated to JNTUK • Accredited by NAAC with 'A' Grade

Recognised by UGC under sections 2(f) and 12(B) of UGC Act, 1956

Aditya Nagar, ADB Road, Surampalem - 533437, Near Kakinada, E.G.Dt., Ph:99498 76662

## Department of Mining Engineering

Dt- 10/10/2020

### Minutes of VI BoS meeting conducted on 03-10-2020

The VI meeting of the Board of Studies of Mining Engineering Department was held on 03-10-2020 at 10.00 AM through Microsoft Team. Mr. Satyajeet Parida, Chairperson presided over the meeting.

#### **Agenda 6.1: Welcome address by Chairperson- BoS**

Mr. Satyajeet Parida, Chairman of BoS, invited all the distinguished members of BoS to the VI BoS meeting.

#### **Agenda 6.2: Discussion and ratification of the Vision and Mission of the department and Program Educational Objectives (PEOs), Program Outcomes (POs) and Program Specific Outcomes (PSOs) of the Programs under the Department.**

The BoS members have ratified the Vision and Mission of the department and Program Educational Objectives (PEOs), Program Outcomes (POs) and Program Specific Outcomes (PSOs) of the Programs under the Min.E Department.

#### **Agenda 6.3: Discussion on proposed AR19 B.Tech. (Min.E) Program – IV & V semester syllabus and ratification of the same.**

The BoS members approved the AR19 B.Tech. (Min.E) IV & V semesters syllabus after making the following changes, and some minor rectifications in the courses, listed.

- The members discussed thoroughly and framed the syllabus of Geo-Statistics, which is introduced for the first time in B.Tech. (Min.E).
- The members suggested to change the course name Mine Environmental Engineering –I to Mine Environment & Ventilation Engineering.
- The course Social Relevant Project was introduced in V Semester.
- The title of the lab course Mine Environmental Engineering lab was changed to Mine Environment & Ventilation Engineering lab.
- The following courses were also undergone some minor rectifications
  - i. Mine Surveying-II
  - ii. Surface Mining
  - iii. Underground Coal Mining Technology
  - iv. Fundamentals of Rock Mechanics
  - v. Mine Systems Engineering
  - vi. Underground Metal Mining Technology

**Agenda 6.4: Discussion on proposed AR20 B.Tech. (Min.E) First Year Program structure and ratification of the same.**

The BoS members have discussed and approved the course structure of AR20 B.Tech. (Min.E) First Year Program structure.

**Agenda 6.5 Discussion on the courses having focus on employability/entrepreneurship/skill development in all the programs and ratification of the same.**

The members of BoS ratified the courses having focus on employability/entrepreneurship/skill development in all B.Tech. (Min.E). program.

**Agenda 6.6: Discussion on the new courses offered in all the B.Tech. (Min.E), programmes and ratification of the same.**

The BoS members have discussed and approved the new courses introduced in all the B.Tech. (Min.E), programmes The Percentage of new courses introduced in the academic year 2020-2021 for B. Tech (Min. E) is 19.32 %. The list of new courses is enclosed as Annexure-I.

**Agenda 6.7: Discussion on all the B.Tech. (Min.E), programmes in which Choice Based Credit System (CBCS)/elective course system is being implemented and ratification of the same.**

- The members discussed and approved the choice-based credit system for all the B.Tech. (Min.E), programme.

**Agenda 6.8: Discussion on the value-added courses offered for students and ratification of the same.**

- The BoS members approved the list of value-added courses offered to students and ratified the same.
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**Agenda 6.9: Discussion on the percentage of syllabus revision done in all the B.Tech. (Min.E) programs and ratification of the same.**

The percentage change in syllabus was discussed and approved by the BoS members. The percentage of courses revised in the academic year 2020-2021 for B.Tech (Min. E) is 28.41%. The list of courses revised is enclosed as Annexure-II.

**Agenda 6.10: Analysis of Results**

The BoS chairperson presented the results. The BoS members appreciated the faculty for achieving better pass percentages.

**Agenda 6.11: Analysis of Students Feedback & Action Taken Report**

BoS chairperson has expressed that the student feedback and action taken report process is done at the end of each semester. The BoS members were pleased to know the average feedback for the faculty in even and odd semesters.

**Agenda 6.12: Analysis of Stakeholder's Feedback on Curriculum**

The stakeholder's feedback on curriculum was discussed and applicable considerations were incorporated. The BOS members noted the same and advised to incorporate the suggestions as per the feasibility. The Action Taken Report is enclosed as Annexure-III.

**Agenda 6.13: Any other item/s**

BoS members suggested to extend the period of internships for the students.

**Agenda 6.14: Scheduling of the next BoS meeting.**

- The next BoS meeting is tentatively scheduled in the month of October 2021.

**Agenda 6.15: Vote of Thanks**

- Mr. Satyajee Parida, BoS Chairperson thanked the members for the successful completion of BoS VI.

**BoS Chairperson**



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## Department of Mining Engineering

### Annexure-I

#### List of New Courses in the Academic Year 2020-2021

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (Min.E)	II	201ES2L12	Computer Aided Drafting Lab
2	B. Tech (Min.E)	III	191MC3A04	Essence of Indian Traditional Knowledge
3	B. Tech (Min.E)	III	191ES3T10	Internet of Things
4	B. Tech (Min.E)	IV	191MC4A06	Biology for Engineers
5	B. Tech (Min.E)	IV	191MI4T08	Geo-statistics
6	B. Tech (Min.E)	VII	171MI7T20	Mine Management
7	B. Tech (Min.E)	VII	171MI7E14	Advance Underground Coal Mining Technology
8	B. Tech (Min.E)	VII	171ES7L16	Mechanical Engineering Lab
9	B. Tech (Min.E)	VII	171MI7P01	Industry Oriented (Internship) Minor Project
10	B. Tech (Min.E)	VIII	171MI8E16	Mine Systems Engineering
11	B. Tech (Min.E)	VIII	171MI8E17	Advance Surface Mining Technology
12	B. Tech (Min.E)	VIII	171MI8E18	Advanced Underground Metal Mining Technology
13	B. Tech (Min.E)	VIII	171MI8O01	Environmental Impact Assessment
14	B. Tech (Min.E)	VIII	171MI8O02	Mine Closure and Reclamation
15	B. Tech (Min.E)	VIII	171MI8O03	Fundamentals of Communication
16	B. Tech (Min.E)	VIII	171MI8O04	Remote Sensing and GIS
17	B. Tech (Min.E)	VIII	171MI8O05	Quantitative Decision Making

**BoS Chairperson**



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## Department of Mining Engineering

### Annexure-II

#### List of Courses Revised in the Academic Year 2020-2021

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (Min.E)	I	201ES1T05	Engineering Graphics
2	B. Tech (Min.E)	III	191BS3T15	Numerical Methods and Integral Transforms
3	B. Tech (Min.E)	III	191MI3T03	Development of Mineral Deposits
4	B. Tech (Min.E)	III	191MI3L01	Geology Lab
5	B. Tech (Min.E)	IV	191BS4T19	Complex Variables and Statistical Methods
6	B. Tech (Min.E)	VII	171MI7T17	Mine Economics
7	B. Tech (Min.E)	VII	171MI7T18	Mine Health and Safety Engineering

**BoS Chairperson**



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### Annexure III

#### Action Taken Report on Stakeholders Feedback in the Academic Year 2020-2021

S. No	Agenda Item No.	Stakeholders Recommended	Action Taken
1	6.12	The mining industry is moving towards sustainability, closure and restoration of the mining areas so students should be aware of these things.	The make student aware of smooth closure and reclamation of the mining areas the following subject was included in the curriculum. ✓ Mine Closure and Reclamation
2		The mining student should have knowledge about geo graphic mapping and remote sensing which plays an important role in detecting different types of ores.	To make mining student aware of the courses related to geographical mapping the following courses include in the curriculum. ✓ Remote Sensing and GIS
3		The Mining students should have proper knowledge of modern surface mining techniques and advance methods used in it.	The modern and advance techniques in the surface mining have been included in the curriculum they are: ✓ Advance Surface Mining Technology
4		Students should be responsible for handling of the man power in the mines. So, they should develop managerial skills in them.	To make each student a good manager they should possess managerial skills in them for that the following subject has been included in the curriculum: • Mine Management
5		Students should be aware of different environmental aspect of mining in the mining.	The subject which creates environment impact awareness among the students they are: ✓ Environmental Impact Assessment
6		Students should have real knowledge of mining field so time to time industry visit should be included in the curriculum.	Industry visit has stopped due to corona, which is about as the corona effect reduced. Internship is included in the syllabus and for

			final year the internship has been made mandate. ✓ Internship
7	6.3	The syllabus needs few rectifications as the few subjects are not including the automation and new needs of the mining world	The subjects which are improved with new inclusion in the course are as follows: ✓ Surface mining ✓ Rock Fragmentation Engineering ✓ Underground Coal Mining Technology
8	6.12	Students should be aware of new sampling and geostatistical approach for collection of sample in the mining field.	The course which meets the modern approach of sample collection for further analysis of the sample are as follows: ✓ Geo-statistics
9		Students should be more exposed to the real time problems of the mining industry	To make students more aware of industry related problems in mining the following course included: ✓ Industry related project
10	6.11	Students should be allowed for internship and industrial visit	Due to corona industry are not allowing outsider to get entry in their premises, For Internship management has allowed each student to visit mines, also faculties are helping them to get the internship from various companies.
11		Sports culture should be developed in the college and proper timing should be given to it.	Already our Physical education department is there who were helping each and every student to nurture in their individual sports.
12		Students should be aware of modern design prospects of a mine.	The subject which gives the student design prospect of mine are included in the curriculum they are: • Mine Planning and Design Lab

**BoS Chairperson**