



# 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-29/07/2019

### Minutes of IV BoS meeting conducted on 27-07-2019

#### **Agenda 4.1: Welcome address by Chairman**

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

#### **Agenda 4.2: 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 4.3: Discussion on proposed AR19 B.Tech (Min.E) program structure, I & II semesters syllabus and ratification of the same.**

The BoS members approved the AR19 B.Tech (Min.E) course structure after making the following changes in the proposed syllabi:

1. The members have advised to remove the course Managerial Economics and Financial Accounting in III semester as mining specific courses related to this particular area of study is available in the higher semesters of AR-19.
2. In place of Managerial Economics and Financial Accounting (MEFA), the members suggested including 2 surveying related courses, which is more of a necessity for mining. So Mine Surveying –II course is included in IV Semester.
3. Basic Mechanical Engineering was removed from IV semester and added in III semester.

#### **Agenda 4.4: Discussion on the courses having focus on employability/entrepreneurship/skill development in the programs of B.Tech. (Min.E), and ratification of the same**

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

**Agenda 4.5: Discussion on the new courses offered in the B.Tech. (Min.E), programmes and ratification of the same**

Members of BOS noted the new courses offered in the B.Tech. (Min.E), and ratified the same. The Percentage of new courses introduced in the academic year 2019-2020 for B. Tech (Min. E) is 17.05%. The list of new courses is enclosed as Annexure-I.

**Agenda 4.6: Discussion on the B.Tech (Min.E), Programmes in which Choice Based Credit System(CBCS)/elective course system is being implemented and ratification of the same.**

Members of BoS ratified the Choice Based Credit System (CBCS)/elective course system that is being implemented in B.Tech (Min.E), program.

**Agenda 4.7: Discussion on the percentage of syllabus revision done in B.Tech. (Min.E) programme 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 2019-2020 for B.Tech (Min.E) is 44.31%. The list of courses revised is enclosed as Annexure-II.

**Agenda 4.8: Discussion on the value-added courses offered for students and ratification of the same.**

Members of BoS ratified the various value- added courses identified for the students to be offered.

**Agenda 4.9: Analysis of Results**

The BoS Chairperson presented the odd and even semesters pass percentage for the A.Y.2018-2019. The BoS members noted the same and appreciated the faculty for the pass percentage.

**Agenda 4.10: Analysis of Students Feedback & Action Taken Report**

BoS Chairperson expressed that the student feedback & action taken report process initiated at the end of each semester. In academic year 2018-2019 the average student feedback of the faculty for even and odd semester was taken and the same were noted by the BoS members.

**Agenda 4.11: 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 4.12: Any other item/s**

1. The members suggested communicating course content delivered in class to the question paper setters.

2. The members suggested making arrangements for several other mine visits than the compulsory ones included in curriculum.

**Agenda 4.13: Scheduling of the next BOS meeting.**

The next BoS meeting is tentatively scheduled in the month of December, 2019.

**Agenda 4.14: Vote of Thanks**

- Mr. Satyajeet Parida, BoS Chairperson presented the vote of thanks.

**BoS Chairperson**



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## Department of Mining Engineering

### Annexure-I

#### List of New Courses in the Academic Year 2019-2020

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (Min.E)	I	191MC1A02	Constitution of India
2	B. Tech (Min.E)	II	191ES2L12	Mining Engineering Workshop
3	B. Tech (Min.E)	II	191PR2P01	Engineering Exploration Project
4	B. Tech (Min.E)	V	171MI5E01	Maintenance and Reliability Engineering
5	B. Tech (Min.E)	V	171MI5E03	Industrial Management and Labor Relations
6	B. Tech (Min.E)	V	171MI5S01	MOOCs - I
7	B. Tech (Min.E)	V	171HS5T06	Employability Skills - III
8	B. Tech (Min.E)	VI	171MI6E06	Mineral Exploration
9	B. Tech (Min.E)	VI	171MI6E07	Advance Surveying Technology
10	B. Tech (Min.E)	VI	171MI6E08	Mine Subsidence Engineering
11	B. Tech (Min.E)	VI	171MI6S02	MOOCs - II
12	B. Tech (Min.E)	VI	171HS6T07	Employability Skills - IV
13	B. Tech (Min.E)	VII	R1641261	Computer Applications in Mining
14	B. Tech (Min.E)	VII	R1641267	Computer Applications in Mining Lab
15	B. Tech (Min.E)	VIII	R1642261	Mine Economics & Investment

**BoS Chairperson**



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## Department of Mining Engineering

### Annexure-II

#### List of Courses Revised in the Academic Year 2019-2020

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (Min.E)	I	191HS1T01	Communicative English
2	B. Tech (Min.E)	I	191BS1T01	Differential Equations and Linear Algebra
3	B. Tech (Min.E)	I	191BS1T02	Engineering Physics
4	B. Tech (Min.E)	I	191BS1L01	Engineering Physics lab
5	B. Tech (Min.E)	I	191ES1L02	Basic Engineering Workshop
6	B. Tech (Min.E)	I	191MC1A01	Environmental Science
7	B. Tech (Min.E)	II	191BS2T05	Partial Differential Equations and Vector Calculus
8	B. Tech (Min.E)	II	191BS2T06	Chemistry of Materials
9	B. Tech (Min.E)	II	191ES2T02	Engineering Graphics and Design
10	B. Tech (Min.E)	II	191ES2T03	Essential Electrical and Electronics Engineering
11	B. Tech (Min.E)	II	191ES2T04	Engineering Mechanics
12	B. Tech (Min.E)	II	191BS2L04	Engineering Chemistry Lab
13	B. Tech (Min.E)	V	171MI5T11	Basic Geo Mechanics
14	B. Tech (Min.E)	V	171HS5T04	Managerial Economics and Financial Analysis
15	B. Tech (Min.E)	V	171MI5E02	Mine Construction and Management
16	B. Tech (Min.E)	V	171MI5L03	Rock Mechanics Lab

17	B. Tech (Min.E)	VI	171MI6T14	Mineral Processing Technology
18	B. Tech (Min.E)	VI	171MI6T16	Mining Machinery
19	B. Tech (Min.E)	VI	171MI6E04	Advanced Geo Mechanics
20	B. Tech (Min.E)	VI	171MI6E05	Mine Fire and Spontaneous Heating
21	B. Tech (Min.E)	VI	171MI6E09	Rock Fragmentation Engineering
22	B. Tech (Min.E)	VI	171MI6L05	Mineral Processing Technology Lab
23	B. Tech (Min.E)	VII	R164126A	Rock Slope Engineering

**BoS Chairperson**



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## Department of Mining Engineering

### Annexure III

#### Action Taken Report on Stakeholders Feedback in the Academic Year 2019-2020

S. No	Agenda Item No.	Stakeholders Recommended	Action Taken
1		Students are lacking in modern surveying tools in the mining field such as Total station surveying, GPS, etc	To make students understand modern surveying techniques one more surveying Course has been added to the curriculum namely: <ul style="list-style-type: none"><li>• Mine Surveying -II</li></ul>
2	4.11	Mining students are lacking in basic communication skills only few students are good rest are need to be improve.	Different communicative skills courses are added to the curriculum such as: <ul style="list-style-type: none"><li>✓ Communicative English</li><li>✓ Communicative English lab-I</li><li>✓ Communicative English Lab-II</li></ul>
3		Mining students should have depth knowledge about different exploration techniques used for the mineral exploration.	To make students aware of different exploration techniques required in the mining field the following course has been included in the curriculum <ul style="list-style-type: none"><li>✓ Mineral Exploration</li></ul>
4		Mining students should be aware of mine subsidence engineering that will help them in different underground mines.	The importance of the mine subsidence is well understood and the same has been included in the curriculum

			<ul style="list-style-type: none"> <li>• Mine Subsidence Engineering</li> </ul>
5		Students should possess knowledge in the feasibility report of a mine and should have the ability to calculate the loss and profit aspect of a mining project.	<p>To make the student aware of feasibility report of a mine and profit and loss aspect of the mine the following course are included in the curriculum they are:</p> <ul style="list-style-type: none"> <li>• Mine Economics &amp; Investment</li> </ul>
6	4.11	The Importance of surveying has drastically increase in the mining as lot of new techniques has been in used the surveying.	<p>To make student aware of modern surveying tools one for surveying subject has included in the curriculum</p> <ul style="list-style-type: none"> <li>✓ Mine Surveying-II</li> </ul>
7		The courses which increase the placement of the student should be included in the curriculum.	<p>The course which increases the possibility of the student's placements in the upcoming years are as follows:</p> <ul style="list-style-type: none"> <li>• Internet of Things</li> </ul>
8		The no of employability skills in the curriculum should be increased.	<p>The importance of employability skills are well understood so more no of employability skills are included in the curriculum they are:</p> <ul style="list-style-type: none"> <li>• Employability Skills – III</li> <li>• Employability Skills - IV</li> </ul>
9		Apart from underground, surface mining, high wall mining, etc. Mining has also started in the sea and ocean which is very new technique in itself so it should be included in the Curriculum.	<p>The importance of the course is well understood and the same has been included in the curriculum namely:</p> <ul style="list-style-type: none"> <li>✓ Deep sea mining</li> </ul>



10		The MOOCs course should be included in the curriculum.	As per the suggestion following Moocs course has been included they are: <ul style="list-style-type: none"> <li>• MOOCs – I</li> <li>• MOOCs - II</li> </ul>
11	4.10	The students should be aware of latest computer application in the mining field	The course which address the computer application in the mines are as follows: <ul style="list-style-type: none"> <li>• Computer Applications in Mining</li> <li>• Computer Applications in Mining Lab</li> </ul>
12	4.10	Students should be made ready for public speaking skills so that they can speak publicly fluently in mining related courses.	For increasing the skills of students of public speaking they are encouraged for participating in different conferences which help in national and international level. Final syllabus also has subjects which increase their skills they are: <ul style="list-style-type: none"> <li>✓ Seminar</li> <li>✓ Project</li> </ul>

**BoS Chairperson**