

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

Program Name : M.Tech. in Structural Engineering

Syllabus Revision for the Academic Year 2018-2019


S.No	Semester	Course Code	Course Name	% of content revised for the existing year
1	I	172SE1T01	Advanced Mathematics	0
2	I	172SE1T02	Theory of Elasticity	0
3	I	172SE1T03	Matrix Analysis of Structures	0
4	I	172SE1T04	Structural Dynamics	0
5	I	172SE1E01	Experimental Stress Analysis	0
6	I	172SE1E02	Sub Structure Design	0
7	I	172SE1E03	Structural Optimization	0
8	I	172SE1E04	Repair and Rehabilitation of Structures	0
9	I	172SE1E05	Analysis and Design of Tall Building	0
10	I	172SE1E06	Plastic Analysis and Design	0
11	I	172SE1L01	Advanced Structural Engineering Laboratory	0
12	II	172SE2T05	Finite Element Method	0
13	II	172SE2T06	Earthquake Resistant Design	0
14	II	172SE2T07	Stability of Structures	0
15	II	172SE2T08	Theory of Plates & Shells	0
16	II	172SE2E07	Prestressed Concrete	0
17	II	172SE2E08	Mechanics of Composite Materials	30
18	II	172SE2E09	Fracture Mechanics	20

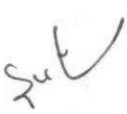
PRINCIPAL
Aditya Engineering College
SURAMPALAM

19	II	172SE2E10	Industrial Structures	20
20	II	172SE2E11	Bridge Engineering	20
21	II	172SE2E12	Earth Retaining Structures	0
22	II	172SE2L02	CAD Laboratory	0
23	III	172SE3C01	Comprehensive Viva - Voce	0
24	III	172SE3R01	Seminar-1	0
25	III	-----	Project Work Part -1	0
26	IV	172SE4R02	Seminar -II	0
27	IV	172SE4P01	Project Work Part -II	0

Total number of courses in the academic year 2018-2019	= 27
Number of courses having revision in syllabus content ≥ 20% in the academic year 2018-2019	= 4
Percentage of syllabus revision carried out in the academic year 2018-2019 = $(4/27) \times 100$	= 14.81%


Program Coordinator


Head of the Department
Head of the Department
Dept. of Civil Engineering
ADITYA ENGINEERING COLLEGE (A9)


PRINCIPAL
Aditya Engineering College
SURAMPALM



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 Civil Engineering

Date: 28-11-2018

Minutes of III BOS meeting conducted on 26-11-2018

The III meeting of the Board of Studies of Civil Engineering Department was held on 26/11/2018 at 10 AM in the Conference Hall, Ajivika, Bill Gates Bhavan AEC Mr. P.Ravi Kishore, Chairperson presided over the meeting.

The members discussed the agenda items and made the following resolutions.

Agenda 3.1: Welcome address by Chairman

Mr. P. Ravi Kishore, Chairman of BOS, invited all the distinguished members of BOS to the III BOS meeting.

Agenda 3.2: Ratification of the previous Board of Studies meeting.

The BOS members have ratified the points discussed in the previous Board of Studies meeting held on 04/11/2017.

Agenda 3.3: Discussion on proposed V, VI, VII and VIII semesters of B.Tech (CE) Programme (AR17) syllabus and finalization of the same.

- After long discussion with the BOS members on the programme structure of B.Tech (CE), the following suggestions are given:

VI SEMESTER

1. Geotechnical Engineering – I
 - Suggested to include the sentence 'basic concepts of engineering properties of soil.
 - Reference book editions should be updated.
2. Water resource engineering- II
 - Web link 3 is to be verified.
3. Pre stressed concrete
 - Text books new editions to be updated.
 - New code to be included.
4. Pavement analysis and design
 - Action verb - Design to be included in course outcomes.
 - Overall revision in outcomes.
 - IS code year to be mentioned, IRC 101.
5. Repair and rehabilitation of structures
 - Headings to be in Bold-Uniformity.
 - Unit – I to be elaborated related to environment.
6. Ground improvement techniques
 - Credits - 2 is to be modified as credits - 3.
 - UNIT 5 use grouting techniques instead of Grout techniques.
7. Finite Element method
 - Publication year to be mentioned in reference book 2.
8. Earthquake resistant Design
 - Add case studies at the end of the course.
9. Irrigation design drawing
 - Irrigation structures wooden models to be procured.



PRINCIPAL

Aditya Engineering College
SURAMPALAM

- In Final exam pattern asked should be modified by given.

VII SEMESTER

1. Geotechnical Engineering – II
 - Suggested that in future I and II to be removed by specific names of the courses like foundation engineering and soil mechanics etc.
2. Environmental Engineering
 - Water quality standards IS10500-2012 to be included.
 - Text book Environmental Engineering by Howard Povey et al.
3. Remote sensing and GIS application
 - Equipment like separate lab and hand GPS Equipment need to be purchased.
4. Estimation specifications and contracts
 - Rate analysis by SSR method to be included.
5. Watershed management
 - Models to be specified.
6. Bridge Engineering
 - IRC code to be included.
 - Clarify inclusion of BGML Bridge in the course.
7. Environmental Impact and management
 - Unit-I full form of EIA to be given.
8. Environmental Engineering lab
 - Physical parameters like colour and odour to be included using basic sense organs.
 - BOD is to be included along with DO experiment.
9. GIS and CAD lab
 - In 2nd experiment cantilever beam is to be merged along with simply supported beam.

VIII SEMESTER

1. Solid and Hazardous waste management
 - Occupational health Hazards and public health and aesthetics are to be included in the syllabus.
2. Air pollution and control
 - Noise pollution to be included in the syllabus.

MOOCs

- Courses should be approved by the concerned HOD applicable to the current semester.
- Minimum duration of the course is to be specified by the HOD.
- MOOCs can be registered in the preceding semester for the current semester.
- The percentage of new courses introduced in the academic year 2018-19 for B. Tech (CE) is 3.23 %. The list of new courses is enclosed as Annexure-I.
- The percentage of courses revised in the academic year 2018-19 for B. Tech (CE) is 15.05 % and M. Tech (Structural Engineering) is 14.81%. The list of courses revised are enclosed as Annexure II.


 PRINCIPAL
 Aditya Engineering College
 SURAMPALEM

Agenda 3.4: General discussion on AICTE model curriculum,

- Department has presented a model draft curriculum (AR19) with reference to AICTE model curriculum.
- Detailed discussion on AICTE model curriculum (AR19) will be carried in next BOS meeting.

Agenda 3.5: 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 noted the same.

Agenda 3.6: Analysis of the feedback on curriculum from stakeholders


The BOS Chairperson presented the analysis report of stakeholders' feedback on Curriculum. 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 3.7: Analysis of Results

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

Agenda 3.8: Any other item/s

1. The BOS members suggested that unless NPTEL course are not upgraded and it is not advisable to give the students credit for qualifying those courses. However, these courses can be used as a supplementary source of reading.
2. The BOS members discussed the courses that enhance the student entrepreneur skills.
3. Self-reading needs to be promoted, for which establishment of MOUs with some reputed universities; & courses offered by which will be considered by awarded credits if the students successfully complete those.
4. Seminars should be incorporated from the 1st year of the program.
5. The BOS members discussed the elective courses, suggested that Open Electives should be decided at the college level offered by various departments to various other Departments and they should be open to all.
6. Department LAB manual is to be included in the reference books for all LABS.


PRINCIPAL
Aditya Engineering College
SURAMPALEM

Agenda 3.9: Discussion on the value-added courses offered for students and ratification of the same.

BOS members approved the list of value-added courses offered to students

Agenda 3.10: Scheduling of the next BOS meeting.

The next BOS meeting is tentatively scheduled in the month of November 2019.

Agenda 3.11: Vote of Thanks

Prof. P. Ravi Kishore, BOS Chairperson thanked the members for the successful completion of BOS III.



Head of the Department
Dept. of Civil Engineering
ADITYA ENGINEERING COLLEGE (A9)



PRINCIPAL
Aditya Engineering College
SURAMPALEM



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 Civil Engineering

Annexure -I

List of New Courses in the Academic Year 2018-2019

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (CE)	V	R1631011	Management Science
2	B. Tech (CE)	III	171HS3A10	Employability Skills - I
3	B. Tech (CE)	IV	171HS4A11	Employability Skills – II

Head of the Department
Dept. of Civil Engineering
ADITYA ENGINEERING COLLEGE (A.C.)

PRINCIPAL
Aditya Engineering College
SURAMPALAM



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 Kaknada, E.G.Dt., Ph:99498 76662

Department of Civil Engineering

Annexure -II

List of Courses Revised in the Academic Year 2018-2019

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (CE)	III	171BS3T10	Probability and Statistics
2	B. Tech (CE)	III	171CE3T02	Surveying
3	B. Tech (CE)	III	171CE3L01	Surveying Lab
4	B. Tech (CE)	III	171ES3L03	Strength of Materials Lab
5	B. Tech (CE)	IV	171CE4L02	Fluid Mechanics and Hydraulic Machinery Lab
6	B. Tech (CE)	IV	171HS4A04	Managerial Economics and Financial Analysis
7	M. Tech (Structural Engineering)	II	172SE2E02	Mechanics of Composite Material
8	M. Tech (Structural Engineering)	II	172SE2E09	Fracture Mechanics
9	M. Tech (Structural Engineering)	II	172SE2E10	Industrial Structures
10	M. Tech (Structural Engineering)	II	172SE2E12	Earth Retaining Structures

Head of the Department
Dept. of Civil Engineering
ADITYA ENGINEERING COLLEGE (A9)

PRINCIPAL

Aditya Engineering College
SURAMPALEM



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 Civil Engineering

Annexure III

Action taken report on Stakeholders Feedback in the Academic Year 2018-2019

S. No	Agenda Item No.	Stakeholders Recommended	Action Taken
1	3.2	Include the subject of Industrial Waste Management in the engineering.	We will try to add the mentioned subject based on the replies we have obtained.
		Pre-casting, pre-fabrication, and white topping are some of the most recent and innovative materials that can be learned through industry experience	We will organize the industry visit based on the reviews we have received.
		It is better to provide GATE classes in the after the college hours or in summer vacation.	Civil Department organizing the GATE training for the interested and fast Learning students.
2	3.9	Practical site knowledge required regarding surveying and mapping to be improved to students.	As a measure of improving the practical knowledge approach in students in solving the demine problems, total station camp report submission introduced in the III year B.Tech program.
		Open electives, which should be available to everyone, should be determined upon at the college level and provided by various departments to various other departments.	Depending on the feedback we receive, we will also let students choose elective from other disciplines.
		Give students the option to sign up for and take NPTEL courses online.	We will shortly have an event to raise awareness of NPTEL online courses

PRINCIPAL

Aditya Engineering College
SURAMPALAM

3	3.9	Provision to opt for a greater number of electives.	Student are allowed to opt for more than one elective in a semester
	3.9	Suggest to conduct value added courses.	In response to comments, we will provide value-added courses.
	3.2	The student syllabus is insufficient to produce advanced learning results.	We will include trending topics in the curriculum's syllabus based on feedback.
4	3.2	Improve placements for the students.	As per suggestions, placement training oriented series conducted by APSSDC, APSCH and Infosys.
		Introduce a greater number of laboratories Classes.	Depending on the feedback, we'll start offering more lab classes.
		Introduction additional software's, such as water resources and water quality parameters	We will introduce software for water resources engineering based on the comments.



BOS Chairperson
Head of the Department
Dept. of Civil Engineering
ADITYA ENGINEERING COLLEGE (A9)



PRINCIPAL
Aditya Engineering College
SURAMPALAM