

ADITYA ENGINEERING COLLEGE

An Autonomous Institution

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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 : B.Tech. in Civil Engineering

Syllabus Revision for the Academic Year 2017-2018

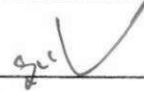
S.No	Semester	Course Code	Course Name	% of content revised for the existing year
1	I	171HS1T01	English – I	65
2	I	171BS1T01	Mathematics – I	40
3	I	171HS1T02	Environmental Studies	20
4	I	171BS1T03	Engineering Chemistry	25
5	I	171ES1T02	Engineering Mechanics	0
6	I	171ES1T01	Computer Programming	0
7	I	171HS1L01	English Communication Skills Lab - I	0
8	I	171BS1L01	Engineering Chemistry Lab	20
9	I	171ES1L01	Computer Programming Lab	40
10	II	171HS2T03	English – II	55
11	II	171BS2T02	Mathematics – II	10
12	II	171BS2T06	Mathematics – III	40
13	II	171BS2T07	Engineering Physics	25
14	II	171ES2T03	Engineering Drawing	5
15	II	171ES2T04	Basic Mechanical Engineering	0
16	II	171HS2L02	English Communication Skills Lab - II	40
17	II	171BS2L02	Engineering Physics Lab	0
18	II	171ES2L02	Engineering Workshop and IT Workshop	0

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19	III	R1621011	Probability & Statistics	0
20	III	R1621012	Basic Electrical & Electronics Engineering	0
21	III	R1621013	Strength of Materials-I	0
22	III	R1621014	Building Materials & Construction	0
23	III	R1621015	Surveying	0
24	III	R1621016	Fluid Mechanics	0
25	III	R1621017	Survey Field Work – I	0
26	III	R1621018	Strength of Materials Lab	0
27	IV	R1621019	Professional Ethics & Human Values	0
28	IV	R1622011	Building Planning & Drawing	0
29	IV	R1622012	Strength of Materials - II	0
30	IV	R1622013	Hydraulics & Hydraulic Machinery	0
31	IV	R1622014	Concrete Technology	0
32	IV	R1622015	Structural Analysis – I	0
33	IV	R1622016	Transportation Engineering - I	0
34	IV	R1622017	FM & HM Lab	0
35	IV	R1622018	Survey Field Work – II	0
36	IV	R1622019	Managerial Economics & Financial Analysis	0
37	V	RT31014	Engineering Geology	0
38	V	RT31012	Structural Analysis – II	0
39	V	RT31013	Design and Drawing of Reinforced Concrete Structures	0
40	V	RT31011	Geotechnical Engineering – I	0
41	V	RT31015	Transportation Engineering – I	0
42	V	RT31016	IPR & Patents	0

43	V	RT31017	Geotechnical Engineering Lab	0
44	V	RT31018	Engineering Geology Lab	0
45	VI	1RT32013	Design and Drawing of Steel Structures	0
46	VI	1RT32012	Geotechnical Engineering – II	0
47	VI	1RT32014	Water Resources Engineering-I	0
48	VI	1RT32011	Environmental Engineering – I	0
49	VI	1RT32015	Transportation Engineering – II	0
50	VI	PT41011	Environmental Pollution and Control	0
51	VI	RT32016A	Disaster Management	0
52	VI	RT32016C	Industrial Water & Waste Water Management	0
53	VI	RT32016B	Architecture and Town Planning	0
54	VI	RT32016D	Finite Element Method	0
55	VI	RT32016E	Green Technologies	0
56	VI	RT32017	Computer Aided Engineering Drawing	0
57	VI	RT32018	Transportation Engineering Lab	0
58	VII	RT41011	Environmental Engineering – II	0
59	VII	RT41012	Prestressed Concrete	0
60	VII	RT41013	Construction Technology and Management	0
61	VII	RT41014	Water Resources Engineering-II	0
62	VII	RT41015	Remote Sensing and GIS Applications	0
63	VII	RT41016	(ELECTIVE - I) Ground Improvement Techniques	0
64	VII	RT41017	Air Pollution and Control	0
65	VII	RT41018	Matrix methods of Structural Analysis	0
66	VII	RT41019	Urban Hydrology	0

67	VII	RT4101A	Advanced Surveying	0
68	VII	RT4101B	Interior Designs and Decorations	0
69	VII	RT4101L	Environmental Engineering Lab	0
70	VII	RT4101M	GIS & CAD Lab	0
71	VIII	RT42011	Estimation, Specifications & Contracts	0
72	VIII	RT42012A	Engineering with Geo-synthetics	0
73	VIII	RT42012B	Environmental Impact Assessment and Management	0
74	VIII	RT42012C	Advanced Structural Engineering	0
75	VIII	RT42012D	Ground Water Development and Management	0
76	VIII	RT42012E	Traffic Engineering	0
77	VIII	RT42012F	Infrastructure Management	0
78	VIII	RT42013A	Advanced foundation Engineering	0
79	VIII	RT42013B	Solid waste Management	0
80	VIII	RT42013C	Earthquake Resistant Design	0
81	VIII	RT42013D	Water Shed Management	0
82	VIII	RT42013E	Pavement Analysis and Design	0
83	VIII	RT42013F	Green Buildings	0
84	VIII	RT42014A	Soil Dynamics and Machine Foundations	0
85	VIII	RT42014B	Environmental and Industrial Hygiene	0
86	VIII	RT42014C	Repair and Rehabilitation of Structures	0
87	VIII	RT42014D	Water Resources System Planning and Management	0
88	VIII	RT42014E	Urban Transportation Planning Safety Engineering	0
89	VIII	RT42014G	Bridge Engineering	0
90	VIII	RT42015	Project Work	0


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Total number of courses in the academic year 2017-2018				= 90
Number of courses having revision in syllabus content $\geq 20\%$ in the academic year 2017-2018				= 10
Percentage of syllabus revision carried out in the academic year 2017-2018 = $(10/90) \times 100$				= 11.11%


 Program Coordinator


 Head of the Department

Head of the Department
 Dept. of Civil Engineering
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Department of Civil Engineering

Date: 01-06-2017

Minutes of the I meeting of BOS scheduled on 29-05-2017

The I meeting of the BOS of Civil Engineering was held on 29th May 2017 at 09.30 AM, Ajivika Conference Hall, Bill Gates Bhavan.. Prof. P. Ravi Kishore, Chairperson presided over the meeting.

Agenda 1.1: Welcome address by Chairperson

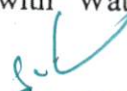
Prof. P.Ravi Kishore, BOS Chairperson invited the distinguished members of BOS to the I BOS Meeting.

Agenda 1.2: 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.

- Members of BOS ratified the Vision and Mission of the department, PEOs, POs and PSOs of the Programs under the Department.

Agenda 1.3: Discussion on proposed AR17 Program Structures of B.Tech,(CE), M.Tech (Structural Engineering) and ratification of the same.

- The BOS members approved the AR 17 M. Tech (Structural Engineering) structure and ratified the same.
- The BOS members approved the AR17 B. Tech (CE) course structure after making the following changes in the proposed syllabi:
 1. Suggested to modify Mathematics- III with specific name in I-II.
 2. Suggested to modify syllabus of Elements of Mechanical Engineering in I-II and name as Basic Mechanical Engineering and the same is approved.
 3. Suggested to modify Construction Materials & management as Building Material & Construction (II-I) and the same is approved.
 4. Suggested to adding surveying camp in III-I Semester as an Audit course without any credits and the same is approved.
 5. Suggested to increase 4 credits to project work in 4-2 semester (10+4=14), for which 2 credits reduced from Employability skills – 1 & 2, 1 credit from Environmental Studies and 1 credit from seminar and the same is approved.
 6. Suggested to modify Building Planning and Drawing as Building Planning and Computer Aided Drawing (II-II) and the same is approved.
 7. Suggested to modify Water Resource Engineering as Water Resource Engineering- 1 & 2 in III-I & III-II Semester and the same is approved.
 8. Suggested to replace Water Resource Engineering with Water Resource Engineering – I in III-I semester and same is approved.


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9. Suggested to replace Environmental Engineering -1 as Water Resource Engineering- 2 in III-II and the same is approved.
10. Suggested to replace Environmental Engineering-II as Environmental Engineering in IV-I semester and the same is approved.
11. Suggested to modify Elective-I Construction Technology as Construction Technology & management (III-I) and the same is approved
12. The members of BOS ratified the courses having focus on employability, suggested to make Employability skills – 3 & 4 as a Credit Course and the credits given 1 for III-I & 1 for III-II semester and the same is approved.
13. Suggested to swap Environmental Impact Assessment and Management (III-II, Professional Elective-2) and Repair and Rehabilitation of Structures (IV-I, Professional Elective-5) and the same is approved.
14. Suggested to shift Earthquake Resistant Design from IV-II, Elective 6 to III-II, Elective 3 and the same is approved.
15. Suggested to incorporate advanced foundation engineering into soil dynamics and foundations.
16. Suggested to replace Computer Aided Engineering Lab and Irrigation Design and Drawing as Irrigation Design and Drawing in III-II and the same is approved.
17. Suggested to rename for Water Resources Planning as Water Resources System Planning & Management in IV-I as Elective - 5.
18. Suggested to modify GIS and CAD Lab as GIS and Computer Aided Design in IV-I semester.
19. The percentage of courses revised in the academic year 2017-18 for B. Tech (CE) is 11.11 % and M. Tech (Structural Engineering) is 14.81 %. The courses revised are listed in Annexure-I.
20. Suggested to mention electives as Professional Elective (PE).
21. Suggested to mention open elective as OE.

Agenda 1.4: Discussion on proposed AR17 B. Tech (CE), M. Tech (Structural Engineering) programs I & II semesters syllabus and ratification of the same.

- BOS members approved AR 17 B. Tech (CE) First Year course syllabus and AR17 M. Tech (Structural Engineering).

Agenda 1.5: Ratification of the proposed model question papers for sessional and external examinations of B. Tech (CE) and M. Tech (Structural Engineering) programs.

- BOS members have approved the pattern of the model papers for the internal and external examinations.

Agenda 1.6: Finalization of names of reputed institution for setting question paper and valuation of answer scripts.

- BOS members accepted the list consisting of the names of reputed autonomous institution for setting question paper and valuation of answer scripts.


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Agenda 1.7: Analysis of Results

- The BOS Chairperson presented the odd and even semesters pass percentage for the A.Y.2016-2017. The BOS members noted the same.

Agenda 1.8: Analysis of student feedback and action taken report

- BOS Chairperson expressed that the student feedback & action taken report process initiated at the end of each semester. The BOS members noted the same.

Agenda 1.9: 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-II.

Agenda 1.10: Any other item/s

- Recommended to reduce Employability skills credits from 4 to 2.
- Highly recommended to increase credits for Main Project.
- Advised to reduce the no of units to 5 from 6.
- Suggested to include more activities to improve the Communication skills of students.
- Suggested to encourage the students to develop the project from their second year onwards.
- Discussed the need for the practical and technical skills for the students and advised to form a club, where every student should work on a program and the logic of the same should be explained to his fellow classmates and also to develop innovative applications.
- Advised the faculty members to share their research work with the students.

Agenda 1.11: Scheduling of next BOS meeting

- The next BOS meeting is tentatively scheduled in the month of November 2017.

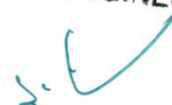
Agenda 1.12: Vote of Thanks

- Prof. P. Ravi Kishore, BOS Chairperson presented the Vote of thanks.



BOS Chairperson

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Annexure I

List of Courses Revised in the Academic Year 2017-2018

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (CE)	I	171HS1T01	English-I
2	B. Tech (CE)	I	171BS1T01	Mathematics - I
3	B. Tech (CE)	I	171HS1T02	Environmental Studies
4	B. Tech (CE)	I	171BS1T03	Engineering Chemistry
5	B. Tech (CE)	I	171BS1LO1	Engineering Chemistry Lab
6	B. Tech (CE)	I	171ES1L01	Computer Programming Lab
7	B. Tech (CE)	II	171BS2T06	Mathematics - III
8	B. Tech (CE)	II	171BS2T07	Engineering Physics
9	B. Tech (CE)	II	171HST03	English-II
10	B. Tech (CE)	II	171HS2L02	English Communication Skills Lab-II
11	M. Tech (Structural Engineering)	I	172SE1E01	Experimental Stress Analysis
12	M. Tech (Structural Engineering)	I	172SE1E02	Structural Optimization
13	M. Tech (Structural Engineering)	I	172SE1E05	Analysis & Design of Tall Buildings
14	M. Tech (Structural Engineering)	I	172SE1E06	Plastics Analysis & Designing

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Annexure II

Action taken report on Stakeholders Feedback in the Academic Year 2017-2018

S. No	Agenda Item No.	Stakeholders Recommended	Action Taken
1	1.3	Practical exposure to be improved among students	Introduction of Surveying Camp in V Semester
		Include industrial training in the curriculum	Introduction of Industry oriented (Internship) Minor Project in VII Semester.
		The IT field's curriculum is ineffective for students	We will introduce other software knowledge such as java, python, etc., based on the comments we have received.
2	1.3	Inclusion of online courses in the curriculum	Included MOOCS-I in V Semester and MOOCS-II in VI Semester conducted through SWAYAM.
		The curriculum is incompatible with issues in the actual world.	Depending on the responses received, new training programs and a wider range of electives should be offered.
		Few courses is not relevant to present job	We will introduce the field trip and the industrial tour based on the comments we have received.

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3	1.3	Better to conduct two value added courses in an academic year	As per the suggestions, one value added course conducted in odd semester and another value-added course conducted in even semester.
		Conduct regular online training sessions	As per suggestions we will conduct online training sessions.
		Implement a faculty development program on current civil engineering trends.	As per suggestions we will have a faculty program.
4	1.1.0	Various Teaching and learning methods need to follow to give more insights.	As per suggestions different teaching methods such as quiz, role play, seminars, PPTs etc are initiated.
		To increase practical knowledge and make use of latest tools in the field of civil engineering, students must receive advanced surveying Training.	As per measure of improving the practical knowledge approach in students in solving the domain problems, total station camp report submission introduced in the III Year B.Tech program.
		Organize cultural and sporting events to refresh.	In response to request, we will host various cultural and sporting events.


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