

ADITYA ENGINEERING COLLEGE

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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 2019-2020

S.No	Semester	Course Code	Course Name	% of content revised for the existing year
1	I	192ST1T01	Theory of Elasticity	0
2	I	192ST1T02	Structural dynamics	33
3	I	192ST1T03	Advanced Concrete Technology	100
4	I	1925T1E03	Design of RCC Foundations	100
5	I	1925T1E01	Matrix Analysis of Structures	0
6	I	1925T1E02	Analytical & Numerical Method for Structural Engineering	100
7	I	1925T1E05	Repair & Rehabilitation of Structures	0
8	I	1925T1E04	Bridge Engineering	50
9	I	1925T1E06	Advanced Reinforced Concrete Design	100
10	I	1925T1L01	Advanced Concrete Technology Laboratory	0
11	I	1925T1L02	Advanced Structural Engineering Laboratory	0
12	II	192ST2T04	Finite Element Methods in Structural Engineering	0
13	II	192ST2T05	Theory of Plates and Shells	0
14	II	1925T2E07	Stability of Structures	0
15	II	1925T2E08	Advanced Steel Design	100
16	II	1925T2E09	Analysis of offshore Structures	100
17	II	1925T2E10	Earthquake Resistant Design of Buildings	0
18	II	1925T2E11	Precast and Prefabricated Structures	100
19	II	1925T2E12	Earth Retaining Structures	100

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20	II	192ST2L03	Computer Aided Design Laboratory	0
21	II	192ST2L04	Structural Design Laboratory	100
22	II	192ST2P01	Mini Project With Seminar	0
23	I/II	C1A01/192MC	English for Research Paper Writing	100
24	I/II	C1A02/192MC	Disaster Management	100
25	I/II	C1A03/192MC	Sanskrit for Technical Knowledge	100
26	I/II	C1A04/192MC	Value Education	100
27	I/II	C1A05/192MC	Constitution of India	100
28	I/II	C1A06/192MC	Pedagogy Studies	100
29	I/II	C1A07/192MC	Stress Management by Yoga	100
30	I/II	C1A08/192MC	Personality Development through Life Enlightenment Skills	100
31	I/II	C1A09/192MC	Soft Skills	100
32	III	172SE3C01	Comprehensive Viva - Voce	0
33	III	172SE3R01	Seminar-I	0
34	III	--	Project Work Part -I	0
35	IV	172SE4R02	Seminar -II	0
36	IV	172SE4P01	Project Work Part -II	0
Total number of courses in the academic year 2019-2020				= 36
Number of courses having revision in syllabus content $\geq 20\%$ in the academic year 2019-2020				= 20
Percentage of syllabus revision carried out in the academic year 2019-2020 = $(20/36)*100$				= 55.55%

Program Coordinator

Head of the Department

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

Date: 27-07-2019

Minutes of the 4th meeting of BOS scheduled on 20-07-2019

The 4th meeting of the BOS of Civil Engineering was held on 20th July 2019 at 10.00 AM, Ajivika Conference Hall, Bill Gates Bhavan. Prof P.Ravi Kishore, Chairperson presided over the meeting.

Agenda 4.1: Welcome address by Chairman

Prof.P.Ravi Kishore, BOS Chairman invited 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.

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

Agenda 4.3: Discussion on proposed course structure for AR19 as per the guidelines of APSCHE and AICTE for B.Tech (CE) and ratification of the same.

- After detailed discussions with the BOS members on the course structure of B.Tech the following suggestions are made.
 1. Suggested to merge M-III and M-IV by considering the relevant topics.
 2. Suggested to bifurcate Structural Analysis into two parts in consecutive semesters.
 3. Suggested to replace Design of Tall Buildings with Advanced Concrete Technology in structural stream in Open Electives the same is implemented.
 4. Suggested to replace River Basin Management with Irrigation Structures in Water Resources stream on Open Electives the same is implemented.
 5. Suggested to replace Traffic Analysis with Urban Transportation in transportation stream on Open Electives the same is implemented.
 6. Suggested to replace Environmental Pollution and Control with Municipal and Hazardous Solid Waste Management in Environmental stream on Open Electives the same is implemented.
 7. Suggested some guidelines regarding the syllabus framing in advanced structural Design the guidelines are carefully recorded.
 8. Suggested to include Industrial by product Waste Management in Industrial Waste and Waste Water engineering the guidelines are carefully recorded.
 9. Suggested to include ISO specifications and safety engineering in one of the Open Electives the same is implemented.

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10. Suggested to revise lectures and credits allocation for Environmental Engineering course.
 11. Suggested to familiarise the students with latest technologies and advanced materials like Pre-casting, Pre-fabrication and white topping through industrial exposure.
- BOS members approved B.Tech First Year II semester syllabus of branch specific workshop-II for Civil Engineering.

Agenda 4.4: Discussion on proposed AR19 M.Tech (Structural Engineering) program structure, I & II semesters syllabus and ratification of the same.

- BOS members approved AR 19 M.Tech (CSE) & M.Tech (Structural Engineering) program structure, I & II semesters syllabus and ratified the same.

Agenda 4.5: Discussion on the courses having focus on employability/ entrepreneurship/ skill development in the programs of AR19 B.Tech (CE) and M.Tech, (Structural Engineering) and ratification of the same.

- The members of BOS ratified the courses having focus on employability/entrepreneurship/skill development in the AR 19 B.Tech (CE) , and M.Tech (Structural Engineering) program.

Agenda 4.6: Discussion on the new courses offered in the B.Tech (CE) and M.Tech (Structural Engineering) programs and ratification of the same.

- Members of BOS noted the new courses offered in the AR19 B.Tech (CE) and M.Tech (Structural Engineering) programs and ratified the same. The percentage of new courses introduced in the academic year 2019-20 for B. Tech (CE) is 10.53% and M. Tech (Structural Engineering) is 50%. The list of new courses during the academic year 2019-2020 enclosed as Annexure-I.

Agenda 4.7: Discussion on the B.Tech (CE) and M.Tech (Structural Engineering) 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 (CE) and M.Tech (Structural Engineering) programs.

Agenda 4.8: Discussion on the percentage of syllabus revision done in the B.Tech(CE) & M.Tech (Structural Engineering) programs and ratification of the same.

- The syllabus revisions were done in B. Tech (CE) and M. Tech (Structural Engineering) based on the stake holder's feedback on Curriculum. The BOS members have approved all the syllabus revisions in both B. Tech (CE) and M. Tech (Structural Engineering). The percentage of courses revised in this academic year 2019-20 for B. Tech (CE) is 31.57 % and M. Tech (Structural Engineering) is 55.55 %. The list of courses revised is enclosed as Annexure-II.


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Agenda 4.9: 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 4.10: 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.

Agenda 4.11: 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. The BOS members have noted the results in academic year 2018-2019.

Agenda 4.12: 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 4.13: Any other items


- Suggested that the department can approve the & then course offered by the MOOCS course provided in that current semester.
- Suggested to add new technologies in elective courses to fill the gap between industry and academics
- Suggested to make MOUs with industries and premier institutes.

Agenda 4.14: Scheduling of the next BOS meeting.

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

Agenda 4.15: Vote of Thanks

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


BOS Chairperson
Head of the Department
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D. No. 100/1, 100/2, 100/3, 100/4, 100/5, 100/6, 100/7, 100/8, 100/9, 100/10, 100/11, 100/12, 100/13, 100/14, 100/15, 100/16, 100/17, 100/18, 100/19, 100/20, 100/21, 100/22, 100/23, 100/24, 100/25, 100/26, 100/27, 100/28, 100/29, 100/30, 100/31, 100/32, 100/33, 100/34, 100/35, 100/36, 100/37, 100/38, 100/39, 100/40, 100/41, 100/42, 100/43, 100/44, 100/45, 100/46, 100/47, 100/48, 100/49, 100/50, 100/51, 100/52, 100/53, 100/54, 100/55, 100/56, 100/57, 100/58, 100/59, 100/60, 100/61, 100/62, 100/63, 100/64, 100/65, 100/66, 100/67, 100/68, 100/69, 100/70, 100/71, 100/72, 100/73, 100/74, 100/75, 100/76, 100/77, 100/78, 100/79, 100/80, 100/81, 100/82, 100/83, 100/84, 100/85, 100/86, 100/87, 100/88, 100/89, 100/90, 100/91, 100/92, 100/93, 100/94, 100/95, 100/96, 100/97, 100/98, 100/99, 100/100



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Annexure I

List of New Courses in the Academic Year 2019-2020

S. No	Program	Semester	Course Code	Course Name
1.	B. Tech (CE)	I	191MC1A02	Constitution of India
2.	B. Tech (CE)	II	191PR2P01	Engineering Exploration Project
3.	B. Tech (CE)	II	191ES2L03	Essential Electrical and Electronics Engineering Lab
4.	B. Tech (CE)	II	191ES2L04	Civil Engineering Workshop
5.	B. Tech (CE)	V	171HS5T06	Employability Skills - III
6.	B. Tech (CE)	VI	171HS6T07	Employability Skills - IV
7.	B. Tech (CE)	V	171CE5S01	MOOCs - I
8.	B. Tech (CE)	V	171CE5P03	Surveying Camp
9.	B. Tech (CE)	VI	171CE6S02	MOOCs - II
10.	B. Tech (CE)	VII	R1641018	Irrigation Design & Drawing
11.	M. Tech (Structural Engineering)	I	192MC1A01	English for Research Paper Writing
12.	M. Tech (Structural Engineering)	I	192MC1A02	Disaster Management
13.	M. Tech (Structural Engineering)	I	192MC1A03	Sanskrit for Technical Knowledge
14.	M. Tech (Structural Engineering)	I	192MC1A04	Value Education
15.	M. Tech (Structural Engineering)	I	192MC1A05	Constitution of India
16.	M. Tech (Structural Engineering)	I	192MC1A06	Pedagogy Studies

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17.	M. Tech (Structural Engineering)	I	192MC1A07	Stress Management by Yoga
18.	M. Tech (Structural Engineering)	I	192MC1A08	Personality Development through Life Enlightenment Skills
19.	M. Tech (Structural Engineering)	I	192MC1A09	Soft Skills
20.	M. Tech (Structural Engineering)	I	192ST1T03	Advanced Concrete Technology
21.	M. Tech (Structural Engineering))	I	1925T1E03	Design of RCC Foundations
22.	M. Tech (Structural Engineering)	I	1925T1E02	Analytical & Numerical Method for Structural Engineering
23.	M. Tech (Structural Engineering)	I	1925T1E06	Advanced Reinforced Concrete Design
24.	M. Tech (Structural Engineering)	II	1925T2E08	Advanced Steel Design
25.	M. Tech (Structural Engineering)	II	1925T2E09	Analysis of offshore Structures
26.	M. Tech (Structural Engineering)	II	1925T2E11	Precast and Prefabricated Structures
27.	M. Tech (Structural Engineering)	II	1925T2E12	Earth Retaining Structures
28.	M. Tech (Structural Engineering)	II	192ST2L04	Structural Design Laboratory


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Annexure II

List of Courses revised in the Academic Year 2019-2020

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (CE)	I	191HS1T01	Communicative English-I
2	B. Tech (CE)	I	191BS1T01	Differential Equations and Linear Algebra
3	B. Tech (CE)	I	191BS1T02	Engineering Physics
4	B. Tech (CE)	I	191BS1L01	Engineering Physics lab
5	B. Tech (CE)	I	191ES1L02	Basic Engineering Workshop
6	B. Tech (CE)	II	191BS2T06	Chemistry of Materials
7	B. Tech (CE)	II	191BS2L04	Engineering Chemistry Lab
8	B. Tech (CE)	II	191ES2T02	Engineering Graphics and Design
9	B. Tech (CE)	I	191MC1A01	Environmental Science
10	B. Tech (CE)	III	171BS3T10	Probability and Statistics
11	B. Tech (CE)	V	171HS5T05	Management Science
12	B. Tech (CE)	V	171CE5T11	Transportation Engineering
13	B. Tech (CE)	VIII	171CE5E01	Construction Technology and Management
14	B. Tech (CE)	V	171CE5L04	Engineering Geology Lab
15	B. Tech (CE)	V	171CE5L05	Transportation Engineering Lab
16	B. Tech (CE)	VI	171CE6T15	Geotechnical Engineering - I
17	B. Tech (CE)	VI	171CE6L06	Geotechnical Engineering Lab
18	M. Tech (Structural Engineering)	I	192ST1T02	Structural dynamics
19	M. Tech (Structural Engineering)	I	192ST1E04	Bridge Engineering

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DEPARTMENT OF CIVIL 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	4.7	It is better to provide more choice-based subjects.	Inclusion of various open electives from different disciplines like Electrical Safety, 3D Printing, Digital Electronics and logic Design, Java Programming etc. will be included.
	4.13	Improve extracurricular activities by planning industrial trips.	Introduction of surveying camp in V Semester.
	4.5	Train students and raise awareness among them to pass the GATE and IES exams.	Civil Department organizing the GATE training for the interested and fast learning students.
2	4.5	Focus on courses related to entrepreneurship.	Inclusion of courses like Entrepreneurship Development and Incubation in V semester
		Student exposure towards socially relevant activities.	Incorporation of socially Relevant Project in V Semester
		To prepare students for interviews, conduct programming skills training for them.	For the training program, we have already introduced


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3		The curriculum should be adjusted to reflect the IES and GATE exams	Project work is undertaken as project part-I in VII semester and project part-II in VIII semester, instead of Major Project in VIII semester of AR17 regulation
	4.5	Time frame for Project work can be increased to enhance practical exposure to various day to day life activities.	We will setup workshop schedules based on suggestions.
	4.3	Organize a workshop to discuss improvements in the teaching and Learning Process.	Step by step, we are upgrading the syllabus
4	4.5	It is better to add additional skill oriented programs	As per suggestions value added courses are initiated in both even and odd semesters.
	4.3	Plan your curriculum so that theory and lab are parallel for better understanding.	We will improve the syllabus based on the suggestions.
	4.3	Increase the number of laboratory classes.	We will try to offer more lab classes based on feedback


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