



# ADITYA ENGINEERING COLLEGE

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

Program Name : B.Tech. in Computer Science and Engineering

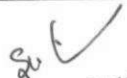
Syllabus Revision for the Academic Year 2021-2022				
S.No	Semester	Course Code	Course Name	% of content revised for the existing year
1	I	201HS1T01	Communicative English	0
2	I	201BS1T01	Differential Equations and Linear algebra	0
3	I	201BS1T04	Engineering Chemistry	0
4	I	201ES1T02	Programming for Problem Solving using C	0
5	I	201ES1I02	Computer Engineering Workshop	0
6	I	201HS1L01	Communicative English Lab	0
7	I	201BS1L03	Engineering Chemistry Lab	0
8	I	201ES1L02	Programming for Problem Solving using C Lab	0
9	I	201MC1T01	Environmental Science	0
10	II	201BS2T07	Numerical Methods and Complex Variables	0
11	II	201BS2T09	Applied Physics	0
12	II	201ES2T11	Computer Organization	0
13	II	201ES2T04	Python Programming	0
14	II	201ES2T07	Data Structures through C	0
15	II	201BS2L04	Applied Physics Lab	0
16	II	201ES2L06	Data Structures through C Lab	0
17	II	201ES2L14	Python Programming Lab	0
18	II	201MC2L01	Professional Communication Skills Lab	0
19	II	201MC2T02	Constitution of India	0
20	III	201CS3T01	Advanced Data Structures	50
21	III	201CS3T02	Object Oriented Programming through C++	100
22	III	201CS3T03	Operating Systems	55

  
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S.No	Semester	Course Code	Course Name	% of content revised for the existing year
23	III	201CS3T04	Software Engineering	25
24	III	201BS3T13	Discrete Mathematics	0
25	III	201CS3L01	Object Oriented Programming through C++ Lab	100
26	III	201CS3L02	Operating Systems Lab	0
27	III	201CS3L03	Unix and Shell Programming Lab	100
28	III	201SC3L05	Applications of python-numpy	100
29	III	201SC3L06	web application development using full stack frontend development-module -I	100
30	III	201MC3T03	Biology for Engineers	0
31	IV	201BS4T16	Probability and statistics	0
32	IV	201CS4T05	Formal Languages and Automata Theory	0
33	IV	201CS4T06	Database Management Systems	0
34	IV	201CS4T07	Java programming	0
35	IV	201HS4T03	Managerial Economics and Financial Accountancy	0
36	IV	201CS4L04	Database Management Systems Lab	0
37	IV	201CS4L05	Java Programming Lab	100
38	IV	201CS4L06	R Programming Lab	100
39	IV	201SC4L18	Applications of python- pandas	100
40	IV	201SC4L19	Web application development using full stack frontend development module-II	100
41	IV	201MC4T04	Essence of Indian Traditional Knowledge	0
42	V	191CS5T08	Compiler Design	0
43	V	191CS5T09	Computer Networks	0
44	V	191CS5T10	Database Management Systems	0
45	V	191CS5T11	Operating Systems	0
46	V	191CS5E04	Functional and Logic Programming	100
47	V	191CS5E01	Advanced Computer Architecture	0

  
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S.No	Semester	Course Code	Course Name	% of content revised for the existing year
48	V	191CS5E02	Artificial Intelligence	100
49	V	191CS5E05	Software Requirement and Estimation	100
50	V	191CS5E03	Computer Graphics	0
51	V	191CE5O01	Basic Concrete Technology	100
52	V	191EE5O01	Electrical Safety	100
53	V	191EE5O02	Electrical Materials	100
54	V	191EE5O03	Basic Electrical Measurements	100
55	V	191ME5O01	Renewable Energy Sources	100
56	V	191ME5O02	Fundamentals of Mechanical Engineering	100
57	V	191ME5O03	Supply Chain Management	100
58	V	191ME5O04	3D Printing	100
59	V	191ME5O05	Entrepreneurship Development and Incubation	100
60	V	191EC5O01	Signals & Systems	100
61	V	191EC5O02	Digital Electronics and Logic Design	100
62	V	191EC5O03	Semi conductor devices	100
63	V	191CS5O01	Data Structures	0
64	V	191CS5O02	Object Oriented Programming through C++	0
65	V	191CS5O03	Java Programming	0
66	V	191CS5O04	R Programming	0
67	V	191IT5O01	Data Base Management Systems	100
68	V	191IT5O02	Computer Graphics	100
69	V	191MI5O01	Overview of Mining	100
70	V	191PT5O01	Process Intensification in Petroleum Industry	100
71	V	191PT5O02	Fundamentals of Petroleum Industry	100
72	V	191AG5O01	Basic Crop Production Practices	100
73	V	191CS5L04	Operating Systems and Computer Networks Lab	100

  
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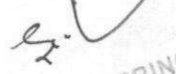
S.No	Semester	Course Code	Course Name	% of content revised for the existing year
74	V	19ICS5L05	Database Management Systems Lab	0
75	V	19IHS5T06	Employability Skills - III	0
76	V	191PR5P02	Socially Relevant Project	100
77	V	191MC5A08	Intellectual Property Rights and Patents	0
78	VI	191CS6T12	Data Ware Housing and Data Mining	0
79	VI	191CS6T13	Object Oriented Analysis and Design	100
80	VI	191CS6T14	Web Technologies	50
81	VI	191CS6E09	Scripting languages	100
82	VI	191CS6E06	Advance Operating Systems	100
83	VI	191CS6E08	Machine Learning	0
84	VI	191CS6E10	Software Testing Methodologies	60
85	VI	191CS6E07	Image Processing	50
86	VI	191CS6E11	C# .Net	100
87	VI	191CS6E13	Distributed Systems	100
88	VI	191CS6E14	Natural Language Processing	100
89	VI	191CS6E15	Software Quality Assurance	0
90	VI	191CS6E12	Cloud Computing	0
91	VI	191CE6O02	Disaster Management	100
92	VI	191EE6O04	Energy Audit and Conservation Management	100
93	VI	191EE6O05	Non Conventional Energy resources	100
94	VI	191EE6O06	Instrumentation	100
95	VI	191ME6O06	Solar Energy Utilisation	100
96	VI	191ME6O07	Basic Thermodynamics and Heat Transfer	100
97	VI	191ME6O08	Introduction to Hydraulics and Pneumatics	100
98	VI	191ME6O09	3D Printing	100
99	VI	191ME6O06	Robotics	100

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S.No	Semester	Course Code	Course Name	% of content revised for the existing year
100	VI	191ME6O09	Management Science	100
101	VI	191ME6O12	Entrepreneurship Development and Incubation	100
102	VI	191ME6O07	Biomedical Instrumentation	100
103	VI	191ME6O08	ECAD Tools	100
104	VI	191CS6O05	Python Programming	0
105	VI	191CS6O06	Operating Systems	0
106	VI	191CS6O07	Web Technologies	0
107	VI	191CS6O08	Cyber Security	0
108	VI	191CS6O09	AR / VR	0
109	VI	191IT6O03	Computer Organization	100
110	VI	191IT6O04	AI Tools & Techniques	100
111	VI	191IT6O05	Robotic Process Automation	100
112	VI	191MI6O02	Industrial Safety Practices	100
113	VI	191MI6O03	Electrical Equipment's in Mines	100
114	VI	191PT6O03	Unconventional Hydrocarbon Resources	100
115	VI	191PT6O04	Asset Management	100
116	VI	191AG6O02	Weather forecast in Agriculture	100
117	VI	191AG6O03	Bio-energy systems design and applications	100
118	VI	191CS6L06	Data Mining and Object Oriented Analysis and Design Lab	100
119	VI	191CS6L07	Web Technologies Lab	0
120	VI	191HS6T07	Employability Skills - IV	0
121	VI	191MC6A09	Professional Ethics and Human Values	0
122	VII	171CS7T18	Cryptography and Network Security	0
123	VII	171CS7T19	UML and Design Patterns	0
124	VII	171CS7T20	Cloud Computing	0

  
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S.No	Semester	Course Code	Course Name	% of content revised for the existing year
125	VII	171HS7T05	Management Science	0
126	VII	171CS7E13	Software Project Management	0
127	VII	171CS5E14	Big Data Analytics	0
128	VII	171CS7E15	Image Processing	0
129	VII	171CS7E16	Cyber Laws	0
130	VII	171CS7E17	Middleware Technologies	0
131	VII	171CS7E18	Artificial Intelligence and Machine Learning	0
132	VII	171CS7E19	Information Retrieval Systems	0
133	VII	171CS7E20	Mobile Computing	0
134	VII	171CS7L12	UML and Design Patterns Lab	0
135	VII	171CS7L13	Big Data Analytics Lab	0
136	VII	171CS7P01	Industry Oriented (Internship) Minor Project	0
137	VIII	171CS8E21	Agile Methodologies	0
138	VIII	171CS8E22	Cyber Security	0
139	VIII	171CS8E23	Distributed Databases	0
140	VIII	171CS8E24	Distributed Systems	0
141	VIII	171CS8O01	Microprocessor and Multi Core Systems	0
142	VIII	171CS8O02	Embedded Systems	0
143	VIII	171CS8O03	Soft Computing	0
144	VIII	171EE8O05	Robotics	0
145	VIII	171CS8O04	Operations Research	0
146	VIII	171CS8O05	Optical Communications	0
147	VIII	171EE8O07	Internet of Things	0
148	VIII	171EC8O02	Disaster Management	0
149	VIII	171CS8O06	Renewable Energy sources	0


  
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S.No	Semester	Course Code	Course Name	% of content revised for the existing year
150	VIII	171CS8O07	Nano Technology and its Applications	0
151	VIII	171CS8P02	Project Work	0
Total number of courses in the academic year 2021-2022				= 151
Number of courses having revision in syllabus content $\geq 20\%$ in the academic year 2021-2022				= 67
Percentage of syllabus revision carried out in the academic year 2021-2022 = $(49/135)*100$				= 44.37%

  
Program Coordinator

  
Head of the Department

Head of the Department  
Department of CSE  
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## Department of Computer Science and Engineering

Date: 30-04-2022

### Minutes of the VIII meeting of BoS scheduled on 27-04-2022

The VIII meeting of the BoS of CSE was held on 27-04-2022 at 10.00 AM at Ajivika Conference Hall. Prof A. Vanathi, Chairperson presided over the meeting.

#### Agenda 8.1: Welcome address by Chairperson.

Prof. A. Vanathi, BoS Chairperson invited the distinguished members of BoS to the VIII BoS Meeting.

#### Agenda 8.2: Ratification of minutes of the previous Board of Studies meeting

The BoS members have ratified the points discussed in the previous Board of Studies meeting held on 01/10/2021.

#### Agenda 8.3: Discussion on proposed AR20 B. Tech (CSE) Program –V, VI, VII & VIII semesters syllabus and ratification of the same.

The BoS members approved the AR 20 B. Tech (CSE) V, VI, VII and VIII semesters syllabus after making the following changes in the proposed syllabi.

- Suggested to include modify the reference links.
- Suggested to add some programs to DAA course and to include a reference book by Skeina.
- Suggested to add the weblink for DMDW course
- Suggested to add Functional programming and knowledge graph and to remove old topics expert systems
- Suggested
- Suggested to include Textbook written by Dr. N.B. Venkateshwarlu
- Suggested to add specific weblinks for the Skill oriented course and also share the syllabus of Robotic Process Automation course to ratify.
- Suggested to add the weblink of Mitesh Khapra, IIT Madras Machine Learning
- Suggested to swap Text book 1 with Text book 2 for the course Distributed Systems.
- Suggested to include weblink of NPTEL for the course Cyber Security
- Dr. M. N. Murthy, shared a material offered by Stanford university, suggested to utilize that for the course Social Networks and Semantic Web.

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- Suggested to include a textbook "Neural Networks and Deep Learning" by Charu C. Agarwal.

**Agenda 8.4: Discussion on proposed syllabus for courses in V to VII Semester under Honors and Minor Degree and ratification of the same.**

BoS members ratified the syllabus of Honor Degree. For Minor Degree, the members of BoS suggested to change the title of courses offered.

**Agenda 8.5: 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.
- BoS members suggested to add courses based on Hardware and Networking, which benefits the students who are not good at coding.

**Agenda 8.6: Discussion on the new courses offered in all the programs and ratification of the same.**

Members of BOS noted the new courses offered in the B. Tech (CSE) & M. Tech (CSE) programs and ratified the same. The percentage of new courses introduced during the academic year 2021-22 for B.Tech (CSE) is 16.56 %. The list of new courses is enclosed as Annexure-I.

**Agenda 8.7: Discussion on the percentage of syllabus revision done in B. Tech (CSE) and M. Tech (CSE) program and ratification of the same.**

The syllabus revision was done in B. Tech (CSE) & M. Tech (CSE) program based on the stakeholders feedback on Curriculum. The BoS members have approved and ratified all the syllabus revisions in B. Tech (CSE) & M. Tech (CSE). The percentage of courses revised in this academic year 2021-22 for B. Tech (CSE) is 44.37 % and M. Tech (CSE) is 4.61 %. The list of courses revised is enclosed as Annexure-II.

**Agenda 8.8: Discussion on the courses having focus on Employability / Entrepreneurship / Skill development in B. Tech (CSE) & M. Tech (CSE) programs and ratification of the same.**

The members of BOS ratified the courses having focus on employability/entrepreneurship/skill development in the B. Tech (CSE) & M. Tech (CSE) program.

**Agenda 8.9: Discussion on all the programs 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 (CSE) and M. Tech (CSE) programs.

**Agenda 8.10: Analysis of Stakeholders feedback on Curriculum.**

The BoS Chairperson presented the analysis of Feedback on Curriculum which is taken from the various Stakeholders. The Action Taken Report is enclosed as Annexure-III.

**Agenda 8.11: Analysis of Results of the Odd semester of the academic year 2021-22.**

- The BoS Chairperson presented the odd semester pass percentage for the A.Y.2021-2022. The BoS members noted the same and appreciated the faculty members.
- BoS members suggested to present the students results in grade wise and subject wise. And also, to present the number of students who cleared all the subjects at the first attempt.

**Agenda 8.12: Analysis of Students Feedback in the Odd semester of the academic year 2021-22.**

- BOS Chairperson presented the student feedback percentage and action taken report. The BOS members noted the same.
- BoS members suggested to present the feedback with the student's remarks.

**Agenda 8.13: Any other item with the approval of Chairman.**

- Suggested to conduct Alumni meet frequently. And suggested to form a mentor group of Alumni students of different domains and to make them to guide the students on different technologies.
- Suggested to concentrate on CO-PO mapping for all courses.
- Suggested to include text book of new editions for all the courses.


**Agenda 8.14: Scheduling of next Board of Studies meeting.**

- The next BoS meeting is tentatively scheduled in the month of September 2022.

**Agenda 8.15: Vote of Thanks**

Prof. A. Vanathi, BoS Chairperson presented the Vote of thanks.

  
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BOS Chairperson  
Head of the Department  
Department of CSE  
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## Department of Computer Science and Engineering

### Annexure-I

#### List of New Courses in the Academic Year 2021-22

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (CSE)	III	201CS3T02	Object Oriented Programming through C++
2	B. Tech (CSE)	III	201CS3L01	Object Oriented Programming through C++ Lab
3	B. Tech (CSE)	III	201CS3L03	Unix and Shell Programming Lab
4	B. Tech (CSE)	III	201SC3L05	Applications of python-numpy
5	B. Tech (CSE)	III	201SC3L06	Web application development using full stack frontend development-module -I
6	B. Tech (CSE)	IV	201SC4L18	Applications of python-pandas
7	B. Tech (CSE)	IV	201SC4L19	Web Application development using full stack frontend development - Module-II
8	B. Tech (CSE)	IV	201CS4L05	Java Programming Lab
9	B. Tech (CSE)	IV	201CS4L06	R Programming Lab
10	B. Tech (CSE)	V	191CS5E04	Functional and Logic Programming
11	B. Tech (CSE)	V	191CS5E02	Artificial Intelligence
12	B. Tech (CSE)	V	191CS5E05	Software Requirement and Estimation
13	B. Tech (CSE)	V	191CE5O01	Basic Concrete Technology
14	B. Tech (CSE)	V	191EE5O01	Electrical Safety
15	B. Tech (CSE)	V	191EE5O02	Electrical Materials
16	B. Tech (CSE)	V	191EE5O03	Basic Electrical Measurements

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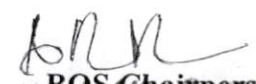
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17	B. Tech (CSE)	V	191ME5O01	Renewable Energy Sources
18	B. Tech (CSE)	V	191ME5O02	Fundamentals of Mechanical Engineering
19	B. Tech (CSE)	V	191ME5O03	Supply Chain Management
20	B. Tech (CSE)	V	191ME5O04	3D Printing
21	B. Tech (CSE)	V	191ME5O05	Entrepreneurship Development and Incubation
22	B. Tech (CSE)	V	191EC5O01	Signals & Systems
23	B. Tech (CSE)	V	191EC5O02	Digital Electronics and Logic Design
24	B. Tech (CSE)	V	191EC5O03	Semi conductor devices
25	B. Tech (CSE)	V	191IT5O01	Data Base Management Systems
26	B. Tech (CSE)	V	191IT5O02	Computer Graphics
27	B. Tech (CSE)	V	191MI5O01	Overview of Mining
28	B. Tech (CSE)	V	191PT5O01	Process Intensification in Petroleum Industry
29	B. Tech (CSE)	V	191PT5O02	Fundamentals of Petroleum Industry
30	B. Tech (CSE)	V	191AG5O01	Basic Crop Production Practices
31	B. Tech (CSE)	V	191CS5L04	Operating Systems and Computer Networks Lab
32	B. Tech (CSE)	V	191PR5P02	Socially Relevant Project
33	B. Tech (CSE)	VI	191CS6T13	Object Oriented Analysis and Design
34	B. Tech (CSE)	VI	191CS6E09	Scripting languages
35	B. Tech (CSE)	VI	191CS6E06	Advance Operating Systems
36	B. Tech (CSE)	VI	191CS6E11	C# .Net
37	B. Tech (CSE)	VI	191CS6E13	Distributed Systems
38	B. Tech (CSE)	VI	191CS6E14	Natural Language Processing
39	B. Tech (CSE)	VI	191CE6O02	Disaster Management
40	B. Tech (CSE)	VI	191EE6O04	Energy Audit and Conservation Management

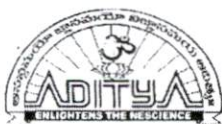


41	B. Tech (CSE)	VI	191EE6O05	Non Conventional Energy resources
42	B. Tech (CSE)	VI	191EE6O06	Instrumentation
43	B. Tech (CSE)	VI	191ME6O06	Solar Energy Utilisation
44	B. Tech (CSE)	VI	191ME6O07	Basic Thermodynamics and Heat Transfer
45	B. Tech (CSE)	VI	191ME6O08	Introduction to Hydraulics and Pneumatics
46	B. Tech (CSE)	VI	191ME6O09	3D Printing
47	B. Tech (CSE)	VI	191ME6O11	Robotics
48	B. Tech (CSE)	VI	191ME6O12	Management Science
49	B. Tech (CSE)	VI	191EC6O04	Entrepreneurship Development and Incubation
50	B. Tech (CSE)	VI	191EC6O05	Biomedical Instrumentation
51	B. Tech (CSE)	VI	191ME6O08	ECAD Tools
52	B. Tech (CSE)	VI	191IT6O03	Computer Organization
53	B. Tech (CSE)	VI	191IT6O04	AI Tools & Techniques
54	B. Tech (CSE)	VI	191IT6O05	Robotic Process Automation
55	B. Tech (CSE)	VI	191MI6O02	Industrial Safety Practices
56	B. Tech (CSE)	VI	191MI6O03	Electrical Equipment's in Mines
57	B. Tech (CSE)	VI	191PT6O03	Unconventional Hydrocarbon Resources
58	B. Tech (CSE)	VI	191PT6O04	Asset Management
59	B. Tech (CSE)	VI	191AG6O02	Weather forecast in Agriculture
60	B. Tech (CSE)	VI	191AG6O03	Bio-energy systems design and applications
61	B. Tech (CSE)	VI	191CS6L06	Data Mining and Object Oriented Analysis and Design Lab

  
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**SURAMPalem**

  
**BOS Chairperson**  
**Head of the Department**  
**Department of CSE**  
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## Department of Computer Science and Engineering

### Annexure-II

#### List of Courses Revised in the Academic Year 2021-22

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (CSE)	III	201CS3T01	Advanced Data Structures
2	B. Tech (CSE)	III	201CS3T03	Operating Systems
3	B. Tech (CSE)	III	201CS3T04	Software Engineering
4	B. Tech (CSE)	VI	191CS6T14	Web Technologies
5	B. Tech (CSE)	VI	191CS6E10	Software Testing Methodologies
6	B. Tech (CSE)	VI	191CS6E07	Image Processing
7	M. Tech (CSE)	I	192CS1E02	Digital Image Processing
8	M. Tech (CSE)	II	192CS2E09	Soft Computing
9	M. Tech (CSE)	II	192CS2E11	Principles of computer security

  
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BOS Chairperson  
Head of the Department  
Department of CSE  
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## Department of Computer Science and Engineering

### Annexure-III

#### Action Taken Report on Stakeholders Feedback in the Academic Year 2021-22

S. No	Agenda Item No.	Stakeholders Recommended	Action Taken
1	8.10	It is better to offer the data Structure and C++ courses separately.	As per the suggestions, the Object-Oriented Programming through C++ course is offered separately in the III semester of AR 20 curriculum.
		Apart from the regular academic curriculum, students should be exposed to latest technological trends.	Thrust areas courses are introduced in the Professional and Open Electives. The trainings on various domains of technical content are given to the students.
		Introduce Personality development courses.	Introduce Personality development courses in new syllabi.
2	8.10	Need to improve the aptitude skills and Technical skills like coding.	Encouragement is provided to improve aptitude skills by training programs and Active Learning Strategies to get clear knowledge of the various concept of coding
		Industrial Visits like ISRO, Power plant should be made as mandatory for the students.	Students are taken to Industrial visit and made them to get knowledge on Space research and Technical activities and assembling of rocket are displayed clearly.
		Conduct activities to enhance	Guest Lecture series and

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		teaching skills of students	national conferences, Celebration of national Science Day (NSD), National Mathematics Day (NMD) and National Statistics Day (NSD) Celebration are organized
3	8.10	Students need to be aware of patriotism, discipline and basic First aid tips for protecting themselves and also for societal benefits	Students are encouraged to do project on societal issues. Students are made to interact with Soldier persons regarding their duties and time management.
		Include more visual activities and role play activities to make students better understand	Special videos on specific topic are made by faculty and given to students for better understanding of concepts.
		Provide Workshop for exploration of various online teaching platform shall be arranged	Online workshop for the use of various online teaching platforms is organised.
4	8.12	To make students to face the corporate world with both technical and moral knowledge.	Extra classes on competitive exams like GATE and Higher education courses like Career guidance is provided for the students in a regular basis.
		Need to give training and hands-on Session on socially relevant projects	Made students to do socially relevant project and hands-on sessions on recent projects virtually.
		A System should be developed to appraise and track student progression	Online meet are arranged through Microsoft teams with all the students and their parents with the Vice-Chairman.
5	8.10	Suggestion to promote work environment for team work	Teachers encouraged students to work in team and positive results of working in a team are visible.

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		Good Motivation for NET SET exam	NET/ SET /TET workshops have been arranged in the Department.
		Include Emerging technologies and subjects in the syllabus	Deep learning subject has been introduced as new course.
6	8.10	Involve alumni in BOS and take their suggestions to rewrite the curriculum.	Suggestions by the alumni were considered. Prestigious alumina was invited to give motivational talks to the students
		Any Activity organized should be beneficial for development of the individuals, but the students must organize more practical oriented event.	Certificate course in computerized activities using open-source software (Python)
7	8.10	Teachers should have the right to adopt innovative strategies of teaching	Teachers were encouraged to adopt more innovative techniques and strategies for teaching.
		Commented favourable to revised necessary content of relevant courses offer good academic flexibility	Syllabus has been revised and skill-based electives core subject and audit course introduced
8	8.12	Depth of the course content needs to be increased for achieving the expected Course Outcomes	Teachers made students familiar with ideas of POs and COs and their expected outcomes.
		Suggested to concentrate more on research activities	Research methodology workshop is organised.

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