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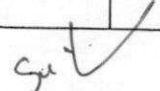
Aditya Nagar, ADB Road, Surampalem - 533437, Near Kakinada, E.G.Dt., Ph:99498 76662

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

Syllabus Revision for the Academic Year 2018-2019				
S.No	Semester	Course Code	Course Name	% of content revised for the existing year
1	I	171HS1T01	English – I	0
2	I	171BS1T01	Mathematics – I	0
3	I	171BS1T02	Mathematics – II	0
4	I	171BS1T04	Applied Physics	0
5	I	171ES1T03	Engineering Drawing	0
6	I	171ES1T01	Computer Programming	0
7	I	171HS1L01	English Communication Skills Lab – I	0
8	I	171BS1L04	Applied Physics Lab	0
9	I	171ES1L01	Computer Programming Lab	0
10	II	171HS2T03	English – II	0
11	II	171BS2T06	Mathematics – III	0
12	II	171HS2T02	Environmental Studies	0
13	II	171BS2T05	Applied Chemistry	0
14	II	171ES2T02	Engineering Mechanics	0
15	II	171CS2T01	Data Structures through C	0
16	II	171HS2L02	English Communication Skills Lab – II	0
17	II	171BS2L03	Applied Chemistry Lab	0
18	II	171ES2L02	Engineering Workshop & IT Workshop	0
19	III	171BS3T08	Mathematical Foundations of Computer Science	25
20	III	171ES3T23	Digital Logic Design	0
21	III	171CS3T02	Statistics with R Programming	80


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S.No	Semester	Course Code	Course Name	% of content revised for the existing year
22	III	171CS3T03	Object Oriented Programming Through C++	0
23	III	171HS3T04	Managerial Economics & Financial Analysis	0
24	III	171CS3T04	Advanced Data Structures	0
25	III	171CS3L01	Object Oriented Programming Lab	80
26	III	171CS3L02	Advanced Data Structures Lab	30
27	III	171HS3A10	Employability Skills – I	100
28	III	171HS3A09	Professional Ethics & Human Values	0
29	IV	171CS4T05	Software Engineering	50
30	IV	171CS4T06	Formal Languages & Automata Theory	0
31	IV	171CS4T07	Java Programming	0
32	IV	171CS4T08	Database Management Systems	0
33	IV	171CS4T09	Principles of Programming Languages	0
34	IV	171CS4T10	Computer Organization	20
35	IV	171CS4L03	Java Programming Lab	50
36	IV	171CS4L04	Database Management Systems Lab	20
37	IV	171HS4A11	Employability Skills – II	100
38	IV	171HS4A08	IPR & Patents	0
39	V	R1631051	Compiler Design	0
40	V	R1631052	Unix Programming	0
41	V	R1631053	Object Oriented Analysis and Design using UML	0
42	V	R1631054	Database Management Systems	0
43	V	R1631055	Operating Systems	0
44	V	R1631056	Unified Modeling Lab	0
45	V	R1631057	Operating System & Linux Programming Lab	0
46	V	R1631058	Database Management System Lab	0
47	V	R1631049	Professional Ethics & Human Values	0


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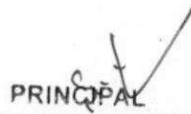
S.No	Semester	Course Code	Course Name	% of content revised for the existing year
48	VI	R1632049	IPR & Patents	0
49	VI	R1632051	Computer Networks	0
50	VI	R1632052	Data Warehousing and Mining	0
51	VI	R1632053	Design and Analysis of Algorithms	0
52	VI	R1632054	Software Testing Methodologies	70
53	VI	R163205A	Artificial Intelligence	0
54	VI	R163205B	Internet of Things	100
55	VI	R163205C	Cyber Security	100
56	VI	R163205D	Digital Signal Processing	100
57	VI	R163205E	Embedded Systems	100
58	VI	R163205F	Robotics	100
59	VI	R1632056	Network Programming Lab	100
60	VI	R1632057	Software Testing Lab	100
61	VI	R1632058	Data Warehousing and Mining Lab	0
62	VII	RT41051	Cryptography and Network Security	0
63	VII	RT41052	UML and Design Patterns	0
64	VII	RT41053	Mobile Computing	0
65	VII	RT41054	Software Testing Methodologies	0
66	VII	RT41055	Simulation Modeling	0
67	VII	RT41056	Information Retrieval Systems	0
68	VII	RT41057	Artificial Intelligence	0
69	VII	RT41058	Multimedia Computing	0
70	VII	RT41059	High Performance Computing	0
71	VII	RT4105A	Digital Forensics	0
72	VII	RT4105B	Hadoop and Big Data	0
73	VII	RT4105C	Software Project Management	0

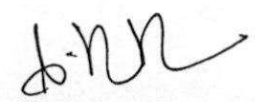

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S.No	Semester	Course Code	Course Name	% of content revised for the existing year
74	VII	RT4105D	Machine Learning	0
75	VII	RT4105E	Advanced Databases	0
76	VII	RT4105M	MOBILE APPLICATION DEVELOPMENT LAB	0
77	VII	RT4105N	SOFTWARE TESTING LAB	0
78	VII	RT4105O	HADOOP AND BIGDATA LAB	0
79	VII	RT4105L	UML AND DESIGN PATTERNS LAB	0
80	VIII	RT42051	DISTRIBUTED SYSTEMS	0
81	VIII	RT42052	MANAGEMENT SCIENCE	0
82	VIII	RT42053A	Human Computer Interaction	0
83	VIII	RT42053B	Advanced Operating Systems	0
84	VIII	RT42053C	Mobile Adhoc & Sensor Networks	0
85	VIII	RT42053D	Pattern Recognition	0
86	VIII	RT42053E	Digital Image Processing	0
87	VIII	RT42053F	Micro processors and Multi Core Systems	0
88	VIII	RT42043B	Embedded and Real Time Systems	0
89	VIII	RT42043C	Neural Networks & Soft Computing	0
90	VIII	RT42043D	Social Networks and the Semantic Web	0
91	VIII	RT42043E	Cloud Computing	0
92	VIII	RT42055	PROJECT	0

Total number of courses in the academic year 2018-2019	= 92
Number of courses having revision in syllabus content $\geq 20\%$ in the academic year 2018-2019	= 18
Percentage of syllabus revision carried out in the academic year 2018-2019 = $(18/92) \times 100$	= 19.57%


Program Coordinator


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

Date: 19-11-2018

Minutes of the III meeting of BOS scheduled on 17-11-2018

Agenda 3.1: Welcome address by Chairman

Prof. A. Vanathi, BOS Chairman invited 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 25/11/2017.

Agenda 3.3: Discussion on proposed AR17 B.Tech (CSE) Program - VI, VII & VIII semesters syllabus and ratification of the same.

The BOS members approved the AR17 B.Tech (CSE) VI, VII and VIII semesters syllabus after making the following changes in the proposed syllabi.

- Suggested to include an experiment at the end of Web Technologies Lab to implement the real time web application by including all security issues.
- Suggested to explore more tools in Data Mining Lab.
- Suggested to include web links like course era in Pattern Recognition course.
- Suggested to reduce the Unit II RAID Topic in Storage Area Network course as it is already discussed in Computer Organization course. Suggested to adjust the syllabus and balance the load for two sessional exams.
- Suggested to include payment gateways in Unit II in Ecommerce Course.
- Suggested to reduce syllabus of design patterns in UML & Design Patterns Course and also to remove topics like Fly weight from structural Pattern and Iterators and template methods from Behavioural pattern.
- Suggested to revise the lab experiments of UML & DP Lab.
- Suggested to include distributed transactions in the Distributed Database course.
- Suggested to include WBS (Work Breakdown Structure) in UNIT III in Software Project Management Course.
- Suggested to include filters, salt & pepper, Gaussian and noisy removal techniques in Color Images in Image Processing Course.
- Suggested to remove Collections and Generics topics, EJB and concentrate on ASP.net in Middleware Technologies Course. Suggested to include .net core as it works on any operating System.

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- Suggested to include Regression, Bayes Theorem, remove Decision trees and to change the text book as Tom M Mitchel instead of Oliver Theobad in Artificial Intelligence and Machine Learning Course.
- Suggested to include burned down and burned up topics and to include Ken Schwaber as main Text book in Agile Methodologies Course.
- Suggested to make the Cloud Computing Course as core subject instead of Elective and Distributed System as Elective instead of Core Subject.
- BOS members ratified the elective course system that is being implemented.
- Suggested to include any one of cloud DB like Mango DB in Cloud Computing Course.
- Suggested to teach the practical application of cloud deployment in the Cloud Computing.
- Suggested to include dimensionality reduction, optimization, bagging and boosting concepts in Soft Computing Course.
- The percentage of new courses introduced during the academic year 2018-19 for B. Tech (CSE) is 9.78 %. The list of new courses is enclosed as Annexure-I.
- The percentage of courses revised in the academic year 2018-19 for B. Tech (CSE) is 19.57 % and M. Tech (CSE) is 8 %. The list of courses revised are enclosed in Annexure II.
- Suggested to consider the syllabus of Computer Networks, DBMS, data Structures, Computer Organization, Java, Unix & Shell Programming, Internet of Things, Neural Networks & Fuzzy Logic and Operating Systems Courses of CSE as same for these courses in the other departments also.

Agenda 3.4: Discussion on the proposed AR19 B. Tech (CSE) Program & AR19

M. Tech (CSE) programs as per the guidelines of APSCHE & AICTE

The members of BOS suggested that we can have detailed discussion on AR19 in the next BOS meeting.

Agenda 3.5: 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.

Agenda 3.6: Analysis of Students Feedback & Action Taken Report

BOS Chairperson presented the student feedback percentage and action taken report and the members noted the same.


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Agenda 3.7: Analysis of Stakeholder's Feedback on Curriculum

The BOS Chairperson presented the analysis report of Stakeholder's 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 3.8: Analysis of Results

The BOS Chairperson presented the odd and even semesters pass percentage for the A.Y.2017-2018. The BOS members noted the same and appreciated.

Agenda 3.9: Scheduling of next Board of Studies meeting.

The next BOS meeting is tentatively scheduled in the April 2019.

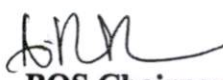
Agenda 3.10: Any other item with the approval of Chairman.

- Suggested to include latest editions of text books.
- Approved the Employability Skills-III & Employability Skills-IV in V & VI semesters
- Suggested to Remove why, what and? from the syllabus
- Advised to teach beyond the course content.
- Suggested to include recent technologies like Block Chain in electives.
- Suggested to fix no of hours for subject to teach as 48 to 54 hrs and for electives 44-48 hrs.
- Suggested to reduce the industry gap by including the latest technologies which improves placements.

Agenda 3.11: Vote of Thanks

- Prof. A. Vanathi, BOS Chairperson presented the Vote of thanks.

SV ✓
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BOS Chairperson
Head of the Department
Department of CSE
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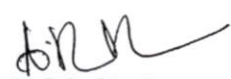
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Annexure-I

List of New Courses in the Academic Year 2018-19

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (CSE)	III	171HS3A10	Employability Skills - I
2	B. Tech (CSE)	IV	171HS4A11	Employability Skills - II
3	B. Tech (CSE)	VI	R163205B	Internet of Things
4	B. Tech (CSE)	VI	R163205C	Cyber Security
5	B. Tech (CSE)	VI	R163205D	Digital Signal Processing
6	B. Tech (CSE)	VI	R163205E	Embedded Systems
7	B. Tech (CSE)	VI	R163205F	Robotics
8	B. Tech (CSE)	VI	R1632056	Network Programming Lab
9	B. Tech (CSE)	VI	R1632057	Software Testing Lab


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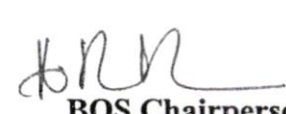
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Annexure-II

List of Courses Revised in the Academic Year 2018-19

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (CSE)	III	171BS3T08	Mathematical Foundations of Computer Science
2	B. Tech (CSE)	III	171CS3T02	Statistics with R Programming
3	B. Tech (CSE)	III	171CS3L01	Object Oriented Programming Lab
4	B. Tech (CSE)	III	171CS3L02	Advanced Data Structures Lab
5	B. Tech (CSE)	IV	171CS4T05	Software Engineering
6	B. Tech (CSE)	IV	171CS4T10	Computer Organization
7	B. Tech (CSE)	IV	171CS4L03	Java Programming Lab
8	B. Tech (CSE)	IV	171CS4L04	Database Management Systems Lab
9	B. Tech (CSE)	VI	R1632054	Software Testing Methodologies
10	M. Tech (CSE)	I	172CO1E02	Advanced Operating Systems
11	M. Tech (CSE)	II	172CO2E06	Digital Image Processing


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Annexure-III

Action Taken Report on Stakeholders Feedback in the Academic Year 2018-19

S. No	Agenda Item No.	Stakeholders Recommended	Action Taken
1	3.7	Suggested to take courses focusing on recent trends.	It is decided to opt the elective course as Internet of Things and Cyber Security for the VI semester students.
		Need to improve the industry interaction.	To make the students aware of industry environment industry Visit and guest lectures by Industry experts are arranged on a regular basis. Internship though it is not mandatory, but the students are encouraged to do.
		Need to motivate students for participation in paper presentation and quiz competition	Motivated students to attend paper presentation and quiz competition with required facilities are provided.
2	3.7	Suggested to take courses focusing on recent trends.	It is decided to opt the elective course as Internet of Things and Cyber Security for the VI semester students.
		Need to improve the industry interaction.	To make the students aware of industry environment industry Visit and guest lectures by Industry experts are arranged on a regular basis. Internship though it is not mandatory, but the students are encouraged to do.
		Need to motivate students for participation in paper presentation and quiz competition	Motivated students to attend paper presentation and quiz competition with required

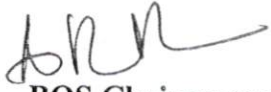
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			facilities are provided.
3	3.7	Suggested to take courses focusing on recent trends.	It is decided to opt the elective course as Internet of Things and Cyber Security for the VI semester students.
		Need to improve the industry interaction.	To make the students aware of industry environment industry Visit and guest lectures by Industry experts are arranged on a regular basis. Internship though it is not mandatory, but the students are encouraged to do.
		Need to motivate students for participation in paper presentation and quiz competition	Motivated students to attend paper presentation and quiz competition with required facilities are provided.
4	3.6	Some topics of Aptitude and reasoning are not covered in the syllabus.	Employability Skills III & IV is revised , and modified.
		Need more industry Interaction	It is decided to take the students for industrial visit. The Internship is also made mandate for every students to complete.
		Arrange guest lectures of working practitioners in recent technologies.	Guest lectures of other university/Institute were arranged for students and teachers.
5	3.7	Suggested to give awareness on work environment	Students are encouraged to work in team to get better communication.
		Students need to be aware of industry exposure	Invited resource persons from industries were made to address the students
		Conduct more tests on formative assessment.	Conducted weekly tests on formative assessment.


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6	3.7	Entrepreneurship development programmes may be conducted.	Training on "Business Skill Development for Women Entrepreneurs" was conducted by IQAC.
		Focus more on Employability	Career guidance and placement programs are included in the course.
7	3.7	Case study approach may be introduced. Group assignments and projects to be given.	Case study assignments were given to the students. Group assignments and projects were given Interdepartmental projects were carried out.
		To fill the gaps with the industry needs, syllabus need to be modified.	Syllabus was modified according to the needs of the software industries.
8	3.6	Faculty-student interaction may be enhanced. Smart class programmes may be made effective.	Learning Management System through interactive activities which enables the mutual interaction between faculty and student was encouraged. Smart Class rooms, Video conferencing etc.
		Increase internship opportunities to build practical work experience and improve coding skills	To improve the coding skills, courses like Python programming, Data Structures through C, Object Oriented Programming through C++ are included with advanced software platforms.


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