



ADITYA ENGINEERING COLLEGE

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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 Information Technology

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	0
2	I	171BS1T01	Mathematics – I	25
3	I	171BS1T02	Mathematics – II	20
4	I	171BS1T04	Applied Physics	20
5	I	171ES1T03	Engineering Drawing	0
6	I	171ES1T01	Computer Programming	0
7	I	171HS1L01	English Communication Skills Lab – I	80
8	I	171BS1L04	Applied Physics Lab	0
9	I	171ES1L01	Computer Programming Lab	40
10	II	171HS2T03	English – II	0
11	II	171BS2T06	Mathematics – III	20
12	II	171HS2T02	Environmental Studies	20
13	II	171BS2T05	Applied Chemistry	20
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	R1621051	Statistics with R Programming	0
20	III	R1621052	Mathematical Foundations of Computer Science	0
21	III	R1621053	Digital Logic Design	0
22	III	R1621054	Python Programming	0
23	III	R1621055	Data Structures through C++	0
24	III	R1621057	Data Structures through C++ Lab	0
25	III	R1621058	Python Programming Lab	0
26	IV	R1622121	Computer Graphics	100
27	IV	R1622052	Java Programming	0
28	IV	R1622122	E-Commerce	100
29	IV	R1622054	Computer Organization	50
30	IV	R1622123	Object Oriented Analysis and Design using UML	100
31	IV	R1622056	Principles of Programming Languages	0
32	IV	R1622124	Unified Modeling Languages Lab	0
33	IV	R1622058	Java Programming Lab	0
34	V	RT31121	Software Engineering	0

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35	V	RT31052	Data Communication	0
36	V	RT31123	Advanced JAVA	0
37	V	RT31054	Database Management Systems	0
38	V	RT31055	Operating Systems	0
39	V	RT31126	Advanced JAVA Lab	0
40	V	RT31127	Operating System Lab	0
41	V	RT31128	Database Management Systems Lab	0
42	V	RT31057	Linux Programming Lab	0
43	VI	RT31016	IPR and Patents- I	0
44	VI	RT31059	Seminar	0
45	VI	IRT32053	Computer Networks	0
46	VI	IRT32052	Data Ware housing and Mining	0
47	VI	IRT32054	Design and Analysis of Algorithms	0
48	VI	IRT32121	Software Testing	0
49	VI	IRT32055	Web Technologies	0
50	VI	RT32127	Computer Networks Lab	0
51	VI	RT32128	Software Testing Lab	0
52	VI	RT32129	Web Technologies Lab	0
53	VII	IRT32056	IPR and Patents-II	0
54	VII	RT41051	Cryptography and Network Security	0
55	VII	RT41052	UML & Design Patterns	0
56	VII	RT41053	Mobile Computing	0
57	VII	RT41121	Embedded and Real Time Systems	0
58	VII	RT41056	Information Retrieval Systems	0
59	VII	RT41058	Multimedia Computing	0
60	VII	RT4105B	Hadoop and Big Data	0
61	VII	RT4105C	Software Project Management	0
62	VII	RT41122	Computer Vision	0
63	VII	RT4105E	Advanced Databases	0
64	VII	RT4112L	UML & Design Patterns Lab	0
65	VII	RT4112M	Mobile Application Development Lab	0
66	VII	RT4112O	Software Engineering Lab	0
67	VII	RT4112N	Hadoop & BigData Lab	0
68	VII	RT42121	MATHEMATICAL OPIMIZATION	0
69	VII	RT42051	DISTRIBUTED SYSTEMS	0
70	VII	RT42052	MANAGEMENT SCIENCE	0
71	VIII	RT42053A	HUMAN COMPUTER INTERACTION	0
72	VIII	RT42053B	ADVANCED OPERATING SYSTEMS	0
73	VIII	RT42053C	MOBILE ADHOC & SENSOR NETWORKS	0
74	VIII	RT42053D	pattern Recognition	0
75	VIII	RT42122	Project	0
Total number of courses in the academic year 2017-2018				= 75
Number of courses having revision in syllabus content >= 20% in the academic year 2017-2018				12
Percentage of syllabus revision carried out in the academic year 2017-2018 = (49/135)*100				= 16%
Program Coordinator		Head of the Department		

Head of the Department
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Department of Information Technology

Date: 31-05-2017

I BOS Minutes of Meeting held on 29/05/2017

The 1st meeting of BOS of IT was held on 29th May 2017 at 10.00AM, Ajivika Conference Hall, Bill Gates Bhavan. Dr. R. Srinivas, Chairperson presided over the meeting.

Agenda 1.1: Welcome address by Chairperson-BOS.

Dr.R. Srinivas, 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.

The Chairperson presented 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 and the BOS members have ratified the same.

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

The members of BOS suggested the following changes to the proposed B.Tech (IT) AR17 course structure:

- Suggested to move Java Programming to II-II semester and Python Programming to III-I semester.
- Suggested to design Java Lab programs as per the industry standards.
- Recommended to include Neural Networks as an elective in III-II semester.
- Strongly Recommended to include Distributed Systems as compulsory subject in IV-I Semester.
- The BOS members discussed about the new courses. The percentage of new courses introduced in this academic year 2017-2018 for B.Tech (IT) is 4% and M.Tech (Software Engineering) is 18.18%. The list of new courses is enclosed as Annexure-I.


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- The percentage of courses revised in this academic year 2017-2018 for B.Tech (IT) is 16% and M.Tech (Software Engineering) is 27.27%. The list of courses revised is enclosed as Annexure-II.

- The BOS members expressed, some courses need to focus on employability skills, BOS chairperson expressed the courses enhance the employability skills. BOS members approved M. Tech (Software Engineering) course structure and ratified the same.

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

The members of BOS ratified the AR17 B.Tech (IT), M.Tech (Software Engineering) programs I & II semesters syllabus. The Members ratified the core elective courses and open elective courses.

Agenda 1.5: Ratification of the proposed model question papers for sessional and external examinations of AR17 B.Tech, M.Tech programmes.

Members of BOS ratified the proposed model question papers for sessional and external examinations of AR17 B.Tech(IT), M.Tech(Software Engineering) programmes.

Agenda 1.6: Finalization of Experts from reputed institutions for setting question paper and valuation of answer scripts.

Members of BOS ratified the Experts from reputed institutions for setting question paper and valuation of answer scripts.

Agenda 1.7: Analysis of Results

Members of BOS noted the result analysis presented by the Chairperson for the A.Y.2016-17 and noted the same.

Agenda 1.8: Analysis of Students Feedback & Action Taken Report

The Chairperson expressed the students' feedback and action taken report. Members of BOS noted the students' feedback and action taken report process initiated at the end of each semester. The BOS members noted the same.

Agenda 1.9: Analysis of Stakeholder's Feedback on Curriculum

The BOS Chairperson presented the analysis of Feedback on Curriculum which is taken from the various Stakeholders. 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.


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Agenda 1.10: Any other item/s

- The BOS Members suggested to reduce Employability skills credits from 4 to 2.
- Suggested to increase credits for Main Project and the same is approved.
- Suggested to prepare syllabus of HCI, E-Commerce, Operating Systems as per Industry Standards.
- Suggested to appoint an Internal Department Co-Ordinator for checking the quality of Question papers.
- Suggested to utilize faculty who were expertized in domains like Data mining, Networks etc. during Project reviews so that quality output of projects can be obtained.
- Suggested to provide internal choice for MOOCS, NPTEL, and Coursera etc.so that student can choose a particular course, complete it and get the Certificate.

Agenda 1.11: Scheduling of the next BOS meeting.

The next BOS meeting is tentatively scheduled for the month of November/ December 2017.

Agenda 1.12: Vote of Thanks

The Chairperson presented the Vote of Thanks.


BOS Chairperson

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Annexure I

List of New Courses in the Academic Year 2017-18

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (IT)	IV	R1622121	Computer Graphics
2	B. Tech (IT)	IV	R1622122	E-Commerce
3	B. Tech (IT)	IV	R1622123	Object-Oriented Analysis and Design using UML
4	M. Tech (SE)	I	172SO1E02	Middleware Technologies
5	M. Tech (SE)	I	172SO1E03	Mobile Computing
6	M. Tech (SE)	II	172SO2E09	Soft Computing
7	M. Tech (SE)	II	172CO2E09	Internet Of Things


BOS Chairperson

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Annexure II

List of Courses Revised in the Academic Year 2017-18

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (IT)	I	171BS1T01	Mathematics – I
2	B. Tech (IT)	I	171BS1T02	Mathematics – II
3	B. Tech (IT)	I	171BS1T04	Applied Physics
4	B. Tech (IT)	I	171HS1L01	English Communication Skills Lab- I
5	B. Tech (IT)	I	171ES1L01	Computer Programming Lab
6	B. Tech (IT)	II	171BS2T06	Mathematics – III
7	B. Tech (IT)	II	171HS2T02	Environmental Studies
8	B. Tech (IT)	II	171BS2T05	Applied Chemistry
9	B. Tech (IT)	IV	R1622054	Computer Organization
10	M. Tech (SE)	I	172SO1T04	Big Data Analytics
11	M. Tech (SE)	II	172CO2E08	Cloud Computing


BOS Chairperson

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Annexure III

Action Taken Report on Stakeholders Feedback in the Academic Year

2017-18

S. No	Agenda Item No.	Stakeholders Recommended	Action Taken
1	1.8	Students should have effective communication skills and good command of accents.	English Communication Skills Lab-I, and English Communication Skills Lab-II courses will be introduced.
2	1.3	Students should learn the programming subjects from basic level to industry level.	Computer Programming, Object-Oriented Programming Through C++, Java Programming, and Python Programming courses will be introduced.
3	1.8	Include a seminar course that will make students industry-ready presentations.	As per the suggestion, the Seminar course will be added in the coming semesters.
4	1.3	Basic knowledge of every domain should be provided.	Subjects related to the mechanical department like Engineering Drawing, Engineering Mechanics, and Engineering Workshop & IT Workshop will be introduced.
5	1.8	Suggested to prescribe textbooks that have global acceptance	As per the suggestion given all the prescribed textbooks for all courses were in accordance with global acceptance.
6	1.4	Elective Courses should have a blend of courses which have a	Suggestions will be taken into consideration and in future semesters, in each professional

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		focus on employability and domain knowledge	elective course 2 subjects will be focused on employability, and 2 subjects will be focused on providing domain knowledge.
7	1.3	Should have more knowledge of Microsoft Tools.	Engineering Workshop & IT Workshop course has been introduced.
8	1.8	Deep Knowledge of Data Structures should be imparted.	Data Structures through C, Advanced Data Structures courses have been introduced
9	1.4	Introduce more elective courses to provide a choice of subjects to chosen to support Choice Based Credit System	V Semester onwards every semester 4 professional elective courses are introduced.
10	1.8	Data Structures lab should be provided.	Taken into consideration and can be implemented in the next regulation.
11	1.8	Engineering Workshop & IT workshop should be divided into 2 labs	Taken into consideration and can be implemented in the next regulation.
12	1.3	Some Courses should focus on providing the basic knowledge of the domain	Data Structures through C++ Lab has been introduced.


BOS Chairperson

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