

# 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 : M.Tech. in Software 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	172SO1T01	Software Requirements And Estimation	0
2	I	172SO1T02	Software Metrics And Reuse	0
3	I	172SO1T03	Software Project And Process Management	40
4	I	172SO1T04	Big Data Analytics	0
5	I	172SO1E01	Web Technologies	0
6	I	172SO1E02	Middleware Technologies	0
7	I	172SO1E03	Mobile Computing	0
8	I	172SO1E04	E-Commerce	0
9	I	172SO1E05	Scripting Languages	0
10	II	172SO1E06	ERP & Supply Chain Management	0
11	I	172SO1L01	Web Technologies & Big Data Analytics Lab	0
12	II	172SO2T05	Software Architecture And Design Patterns	0
13	II	172SO2T06	Software Quality Assurance And Testing	0
14	II	172CO2T06	Cyber Security	0
15	II	172SO2T07	Service Oriented Architectures	0
16	II	172SO2E07	Secure Software Engineering	0
17	II	172SO2E08	Systems Engineering	0
18	II	172SO2E09	Soft Computing	0
19	II	172SO2E10	User Interface Design	0
20	II	172CO2E08	Cloud Computing	0
21	II	172CO2E09	Internet Of Things	0
22	II	172SO2L02	Software Testing & Design Patterns Lab	0
23	III	171SO3C01	Comprehensive Viva-Voce	0
24	III	171SO3R01	Seminar - I	0
25	III	---	Project Work Part - I	0
26	IV	171SO4R02	Seminar - II	0
<b>Total number of courses in the academic year 2018-2019</b>				<b>= 26</b>
<b>Number of courses having revision in syllabus content <math>\geq 20\%</math> in the academic</b>				<b>1</b>
<b>Percentage of syllabus revision carried out in the academic year 2018-2019 = (</b>				<b>= 3.84%</b>

ram Coordinator

Head of the Department

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Head of the Department

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## Department of Information Technology

Date:19-11-2018

### III BOS Minutes of Meeting held on 17/11/2018

The 3<sup>rd</sup> meeting of the BOS for IT was held on 17<sup>th</sup> November 2018 at 10.00AM, Ajivika Conference Hall, Bill Gates Bhavan. Mr. M. Raja Babu, Chairperson presided over the meeting.

#### Agenda 3.1: Welcome address by Chairperson-BOS.

Mr. M. Raja Babu, BOS Chairperson invited the distinguished members of BOS to the III BOS Meeting.

#### Agenda 3.2: 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 25/11/2017.

#### Agenda 3.3: Discussion on proposed AR17 B.Tech(IT) Program – VI,VII&VIII semester syllabus and ratification of the same.

The members of BOS ratified the AR17 VI, VII&VIII Semesters B. Tech(IT) syllabus after incorporating the following changes:

- Suggested to add POP3 before SMTP in Computer Networks.
- Include an experiment at the end of Web Technologies Lab to implement the real time web application by including all security issues.
- Suggested to use more tools in Data Mining Lab.
- Include web links like course era in Pattern recognition.
- Suggested to include payment gateways in Unit II in E-commerce Course.
- Suggested to include distributed transactions in the distributed database.
- Suggested to include WBS( Work Breakdown Structure) in UNIT- III in Software Project Management.
- Include filters, salt& pepper, Gaussian and noisy removal techniques in Color Images in Image Processing.
- Suggested to include burned down and burned up topics and to include Ken Schwaber as main Text book in Agile Methodologies.
- Suggested to make the Cloud Computing as core subject instead of Elective.
- Suggested to include any one of cloud DB like Mango DB in Cloud Computing Course.

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- Suggested to teach the practical application of cloud deployment in the cloud computing.
- Suggested to include dimensionality reduction, optimization, bagging and boosting concepts in Machine Learning.
- Suggested to use open-source tools for UML Lab in addition to Rational Rose.
- Members of BOS ratified the new courses offered in B.Tech (IT). The percentage of new courses introduced in the academic year 2018-2019 for B.Tech (IT) is 9.75 %. The list of new courses is enclosed as Annexure-I.
- The syllabus revision done in B.Tech (IT) program based on Stakeholder's Feedback on Curriculum and the BOS members approved the same. The percentage of courses revised in this academic year 2018-2019 for B.Tech (IT) is 25.06 % and M.Tech (Software Engineering) is 3.84 %. The list of courses revised is enclosed as Annexure-II.

**Agenda 3.4: Discussion on the proposed AR19 B.Tech Program & AR19 M.Tech program as per the guidelines of APSCHE & AICTE.**

The members of BOS ratified the AR19 B.Tech (IT) Program & AR19 M.Tech (Software Engineering) program as per the guidelines of APSCHE & AICTE.

**Agenda 3.5: Discussion on the courses having focus on employability/entrepreneurship/skill development in B.Tech(IT) and M.Tech(SE) programs and ratification of the same.**

Members of BOS ratified the the courses having focus on employability/entrepreneurship/skill development in B.Tech(IT) and M.Tech (Software Engineering) programs.

**Agenda 3.6: Discussion on B.Tech (IT) and M.Tech (Software Engineering) programs in which Choice Based Credit System(CBCS)/Elective course system is being implemented and ratification of the same.**

Members of BOS ratified the B.Tech (IT) and M.Tech (Software Engineering) programs, in which Choice Based Credit System(CBCS)/elective course system is being implemented.

**Agenda 3.7: Discussion on the value-added courses offered for students and ratification of the same.**

Members of BOS ratified the value-added courses offered for students.

**Agenda 3.8: 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.

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### **Agenda 3.11: 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.

### **Agenda 3.12: Analysis of Results**

Members of BOS noted the result analysis presented by the Chairperson for the A.Y.2017-18 and ratified the same.

### **Agenda 3.13: Any other item/s**

- Suggested to follow the competitive exams pattern partially in preparation Suggested to Include latest editions of textbooks for the Courses.
- Suggested to include labs for the courses like Cloud Computing, IOT, Neural Networks and Machine Learning.
- Suggested to Remove why, what and? from the syllabus.
- Advised to teach beyond the course content by discussing need and applications of topics in industry.
- Suggested to Include recent technologies like Block Chain in electives.
- BOS members discussed about the elective course, Suggested to Fix no of hours for subject to teach as 48 to 54 hrs and for electives 44-48 hrs.
- Suggested to focus on the courses, which intern enhance the skill set of the students.
- Suggested to offer the open elective subjects as MOOCS courses in VIII Semester

### **Agenda 3.14: Scheduling of the next BOS meeting.**

The next BOS meeting is tentatively scheduled in the month of April/May 2019.

### **Agenda 3.15: Vote of Thanks**

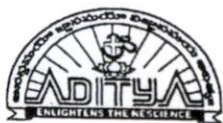
The Chairperson presented the Vote of Thanks.

  
BOS Chairperson

  
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## Department of Information Technology


### Annexure I

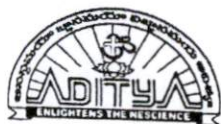
#### List of New Courses in the Academic Year 2018-19

S. No	Program	Semester	Course Code	Course name
1	B. Tech (IT)	III	171HS3A10	Employability Skills -I
2	B. Tech (IT)	IV	171HS4A11	Employability Skills -II
3	B. Tech (IT)	IV	171IT4T01	Language Processors
4	B. Tech (IT)	V	R1631121	Human-Computer Interaction
5	B. Tech (IT)	VI	R1632121	Data Mining
6	B. Tech (IT)	VI	R1632123A	Social Networks and Semantic Web
7	B. Tech (IT)	VI	R1632123B	Operations Research
8	B. Tech (IT)	VI	R1632126	Data Mining Lab

  
BOS Chairperson

Head of the Department  
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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 (IT)	III	171BS3T08	Mathematical Foundations of Computer Science
2	B. Tech (IT)	III	171CS3T02	Statistics with R Programming
3	B. Tech (IT)	III	171CS3L01	Object Oriented Programming Lab
4	B. Tech (IT)	III	171CS3L02	Advanced-Data Structures Lab
5	B. Tech (IT)	IV	171CS4T05	Software Engineering
6	B. Tech (IT)	IV	171HS4T05	Management Science
7	B. Tech (IT)	IV	171CS4T10	Computer Organization
8	B. Tech (IT)	IV	171CS4L03	Java Programming Lab
9	B. Tech (IT)	IV	171CS4L04	Database Management Systems Lab
10	B. Tech (IT)	V	R1631124	Unix and Operating Systems Lab
11	B. Tech (IT)	VI	R1632125	Software Testing Lab
12	B. Tech (IT)	VI	R1632054	Software Testing Methodologies
13	M. Tech (SE)	I	172SO1T03	Software Project and Process Management

Bos Chairperson

Head of the Department  
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## Department of Information Technology

### Annexure III


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

S. No	Agenda Item No.	Stakeholders Recommended	Action Taken
1	3.3	Include courses that will make students industry-ready.	Web Technologies, Data Ware Housing & Data Mining, Big Data Analytics, and Cloud Computing courses will be introduced.
2	3.13	Include courses that should focus on Artificial Intelligence and its sub domains	Artificial Intelligence, Neural Networks, and Machine Learning courses will be introduced.
3	3.10	Include courses that can improve student management skills for the real-time industry.	Suggestions will be considered, and a management science course will be introduced.
4	3.3	Include some trending courses that should provide employability and also knowledge on a specific domain	Image Processing, Information Retrieval Systems, Decision Support Systems, Agile Methodologies, Cyber Security, and Distributed Databases courses will be introduced.
5	3.10	Should have basic knowledge of different domains.	Professional Ethics & Human Values and Mathematical Optimization course has been introduced.
6	3.10	Suggested to include more lab courses for practical purpose	Suggestions will be taken into account and Software Engineering Lab will be introduced.

  
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7	3.13	Elective Courses should have a blend of courses which have a focus on employability and domain knowledge	In each professional elective course 2 subjects focus on employability and 2 subjects focus on providing domain knowledge.
8	3.13	Include open elective courses to make the students work in interdisciplinary domains	10 different open elective courses have been introduced.
9	3.10	Include some courses that will make the students able to work on new technologies and innovations	As per suggestion, Robotics course will be included.
10	3.3	Design and Analysis of Algorithms and Machine Learning courses should be made as professional courses as they are having more weightage in getting placement.	Taken into consideration and can be implemented in the next regulation.
11	3.13	Only 3 open electives are related to other streams. Include more open electives related to another stream so that working in interdisciplinary domains becomes easier.	Taken into consideration and can be implemented in the next regulation.
12	3.3	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.

  
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**BOS Chairperson**  
  
**Head of the Department**  
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