

# **DAYANANDA SAGAR UNIVERSITY**

Shavige Malleshwara Hills, Kumaraswamy Layout,  
Bengaluru - 560078, Karnataka.

## **SCHOOL OF ENGINEERING**



**SCHEME & SYLLABUS**  
**FOR**  
**MASTER OF TECHNOLOGY ( M.Tech) – 2016**  
**COMPUTER SCIENCE & ENGINEERING**  
**SPECIALIZATION: COMPUTER SCIENCE AND**  
**INFORMATION TECHNOLOGY**  
**(With Effect from 2016-17)**

**SEMESTER I**

SL. NO.	COURSE CODE	COURSE TITLE	$\frac{CR}{AU}$	NO. OF HOURS OF TEACHING				SCHEME OF EVALUATION	
				L	T	P	C	CIA	END EXAM
1	16CIT501	ADVANCED ALGORITHMS	CR	03	02	--	04	40	60
2	16CIT502	WEB TECHNOLOGIES	CR	03	-	--	03	40	60
3	16CIT503	VIRTUALIZATION & CLOUD COMPUTING	CR	03	-	--	03	40	60
4	16CITXXX	DEPARTMENT ELECTIVE	CR	03	--	02	04	40	60
5	16CITXXX	DEPARTMENT ELECTIVE	CR	03	--	02	04	40	60
6	16CIT571	WEB TECHNOLOGIES LAB	CR	--	--	04	02	40	60
7	16CIT572	VIRTUALIZATION & CLOUD COMPUTING LAB	CR	--	--	04	02	40	60
<b>Grand Total 700</b>				<b>15</b>	<b>02</b>	<b>12</b>	<b>22</b>	<b>280</b>	<b>420</b>

**SEMESTER II**

SL. NO.	COURSE CODE	COURSE TITLE	$\frac{CR}{AU}$	NO. OF HOURS OF TEACHING				SCHEME OF EVALUATION	
				L	T	P	C	CIA	END EXAM
1	16CIT504	DISTRIBUTED COMPUTING SYSTEMS	CR	03	--	--	03	40	60
2	16CIT505	CLOUD ARCHITECTURE	CR	03	--	02	04	40	60
3	16CIT506	ADVANCED DATABASE MANAGEMENT SYSTEMS	CR	03	--	--	03	40	60
4	16CITXXX	DEPARTMENT ELECTIVE	CR	03	--	02	04	40	60
5	16CITXXX	DEPARTMENT ELECTIVE	CR	03	--	02	04	40	60
6	16CIT573	DISTRIBUTED COMPUTING SYSTEMS LAB	CR	--	--	04	02	40	60
7	16CIT574	DBMS LAB	CR	--	--	04	02	40	60
<b>Grand Total 700</b>				<b>15</b>	<b>00</b>	<b>14</b>	<b>22</b>	<b>280</b>	<b>420</b>

**SEMESTER III**

SL. NO.	COURSE CODE	COURSE TITLE	$\frac{CR}{AU}$	NO. OF HOURS OF TEACHING				SCHEME OF EVALUATION	
				L	T	P	C	CIA	END EXAM
1	16CITXXX	DEPARTMENT ELECTIVE	CR	03	--	02	04	40	60
2	16IEE6XX	INSTITUTIONAL ELECTIVE	CR	03	--	--	03	40	60
3	16CIT681	DISSERTATION	CR	--	--	--	03	100	--
<b>GRAND TOTAL 300</b>				<b>06</b>	<b>--</b>	<b>--</b>	<b>10</b>	<b>180</b>	<b>120</b>

**SEMESTER IV**

SL. NO.	COURSE CODE	COURSE TITLE	$\frac{CR}{AU}$	NO. OF HOURS OF TEACHING				SCHEME OF EVALUATION	
				L	T	P	C	CIA	END EXAM
1	16CITXXX	DEPARTMENT ELECTIVE	CR	03	--	02	04	40	60
3	16CIT682	DISSERTATION	CR	--	--	--	06	200	100
<b>Grand Total 400</b>				<b>03</b>	<b>00</b>	<b>02</b>	<b>10</b>	<b>240</b>	<b>160</b>
<b>Grand total 2000 Total credits 64</b>									

Continuous evaluation: 1. 2 IA Tests (20), 2. Assignment or mini project (10 marks), 3. Any two of Self-study presentation, survey reports, quiz, Laboratory exercises, presentation in seminar & workshops (10 marks)

DEPARTMENTAL ELECTIVES		DEPARTMENTAL ELECTIVES	
16CIT527	ADVANCED COMPUTER NETWORKS	16CIT621	CLOUD NETWORKING & SECURITY
16CIT528	ADVANCED OS	16CIT622	INTERNET OF THINGS
16CIT529	SOFTWARE ARCHITECTURE	16CIT623	SOFT COMPUTING
16CIT530	PROBABILITY & STATISTICS FOR ANALYTICS	16CIT624	ENTERPRISE CLOUD COMPUTING
16CIT531	DATA MINING	16CIT625	PRODUCT DEVELOPMENT & MANAGEMENT
16CIT532	MACHINE LEARNING & AI	16CIT626	AGILE SOFTWARE DEVELOPMENT
16CIT533	ENTERPRISE DATA MANAGEMENT	16CIT627	STORAGE AREA NETWORKS
16CIT534	CLOUD STORAGE		
16CIT535	MOBILE COMPUTING		
16CIT536	DATA ANALYTICS & VISUALIZATION		
16CIT537	FORMAL METHODS IN SOFTWARE ENGINEERING		
16CIT538	HIGH PERFORMANCE COMPUTING		

#### INSTITUTIONAL ELECTIVES

COURSE CODE	COURSE TITLE	OFFERING DEPARTMENT
16IEE651	DIGITAL MARKETING	COMPUTER SCIENCE & ENGINEERING
16IEE652	PRODUCT LIFE CYCLE MANAGEMENT	MECHANICAL ENGINEERING
16IEE653	PROJECT MANAGEMENT	ELECTRONICS & COMMUNICATION ENGINEERING