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Dr. Babasaheb Ambedkar Technological University

(Established as a University of Technology in the State of Maharashtra Under
Maharashtra Government Act No.: XXXIX of 2014)

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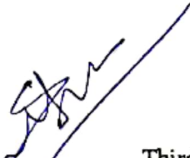
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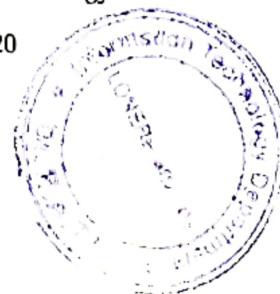


Course structure and detailed syllabus

Third Year B. Tech. Programme in Information Technology

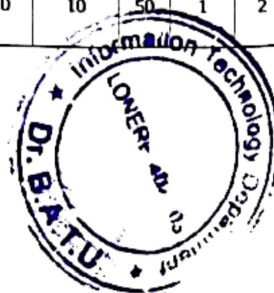
With effect from Academic Year 2019-20


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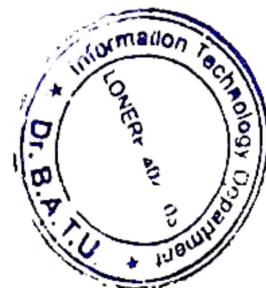


Teaching and Evaluation Scheme Third Year B. Tech. Programme in Information Technology

Sr. No	Course Code	Course Title	Teaching Scheme				Evaluation Scheme				Total Marks	Credits	Total Hours
			L	T	P	MSE	CA		ESE				
							CA-I	CA-II	Internal	External			
Semester V													
1	BTITC501	Database Management Systems	3	-	-	20	20		60	100	3	3	
2	BTITC502	Design and Analysis of Algorithms	3	-	-	20	20		60	100	3	3	
3	BTITC503	Software Engineering	3	-	-	20	20		60	100	3	3	
4	BTITC504	Probability and Queuing Theory	3	-	-	20	20		60	100	3	3	
5		Elective III (Open)	3	-	-	20	20		60	100	3	3	
	BTITOE505A	Graph Theory											
	BTITOE505B	Human Computer Interaction											
	BTITOE505C	Game Theory											
6		Elective IV	3	-	-	20	20		60	100	3	3	
	BTITPE506A	Embedded Systems											
	BTITPE506B	IT Service Management											
	BTITPE506C	Information Storage Management											
	BTITPE506D	Network Management											
	BTITPE506E	Data Visualisation											
7	BTHM501	Constitution of India	2	-	-	-	50	50	-	-	100	Audit	2
8	BTITL507	Programming Lab (R Programming)	-	-	2	-	15	15	10	10	50	1	2
9	BTITL508	Database Management Systems Lab	-	-	2	-	15	15	10	10	50	1	2
10	BTITL509	Design and Analysis of Algorithms Lab	-	-	2	-	15	15	10	10	50	1	2
11	BTITS510	Seminar	-	-	2	-	30	10	10	50	1	2	
12	BTITF511	Field Training/Internship/ Industrial Training II Evaluation	-	-	-	-	-	-	50	50	1	-	
Summary of Semester Assessment Marks, Credits & Hours			20	-	8	120	340	490	950	23	28		
Semester VI													
1	BTITC601	Operating Systems	3	-	-	20	20		60	100	3	3	
	BTITC602	Compiler Construction	3	-	-	20	20		60	100	3	3	
3	BTITC603	Object Oriented Software and Web Engineering	3	-	-	20	20		60	100	3	3	
4	BTITC604	Digital Image Processing	3	-	-	20	20		60	100	3	3	
5		Elective V (Open)	3	-	-	20	20		60	100	3	3	
	BTITOE605A	Enterprise Resource Planning											
	BTITOE605B	Decision Support Systems											
	BTITOE605C	Software Project Management											
6		Elective VI	3	-	-	20	20		60	100	3	3	
	BTITPE606A	Software Testing											
	BTITPE606B	Data Storage Technologies & Networks											
	BTITPE606C	Service Oriented Architecture											
	BTITPE606D	Network Programming											
	BTITPE606E	Advanced Database Technology											
7	BTITL607	Operating Systems Lab	-	-	2	-	15	15	10	10	50	1	2
8	BTITL608	Digital Image Processing Lab	-	-	2	-	15	15	10	10	50	1	2

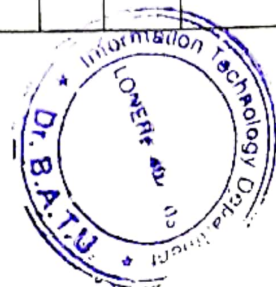


9	Elective VI Lab		-	-	2	-	15	15	10	10	50	1	2
	BTITPEL609A	Software Testing Lab											
	BTITPEL609B	Data Storage Technologies & Networks Lab											
	BTITPEL609C	Service Oriented Architecture Lab											
	BTITPEL609D	Network Programming Lab											
	BTITPEL609E	Advanced Database Technology Lab											
10	BTITP610	Mini Project	-	-	2	-	30	10	10	50	1	2	
11	BTITF611	Field Training/Internship/ Industrial Training III (Minimum four weeks which can be completed partially in fifth semester and sixth semester or at one time)	-	-	-	-	-	-	-	-	-	-	-
Summary of Semester Assessment Marks, Credit s & Hours			18	-	08	120	240	440	800	22	26		
*Evaluation in VII semester													



Third Year B. Tech. Information Technology Syllabus (With effect from 2022-23)

Semester V										
Course Category	Course Code	Course Title	Teaching Scheme			Evaluation Scheme				Credits
			L	T	P	CA	MSE	ESE	Total	
PCC	BTITC501*	Software Engineering	3	1	-	20	20	60	100	4
PCC	BTITC502	Computer Networks and Internetworking Protocols	3	1	-	20	20	60	100	4
PEC	BTITPE503A	Elective- II Embedded Systems IT Service Management Information Storage Management Network Management Data Visualization Virtual Reality	3	-	-	20	20	60	100	3
	BTITPE503B									
	BTITPE503C									
	BTITPE503D									
	BTITPE503E									
	BTITPE503F									
OEC	BTITOE504A	Elective- III Theory of Computation Graph Theory Programming in Java Human Computer Interaction Game Theory 3D Printing and Design	3	-	-	20	20	60	100	3
	BTITOE504B									
	BTITOE504C									
	BTITOE504D									
	BTITOE504E									
	BTITOE504F									
LC	BTITL505	Computer Networks and Internetworking Protocols Lab	-	-	2	60	-	40	100	1
LC	BTITL506	Software Engineering and Elective- II Lab	-	-	4	60	-	40	100	2
Project	BTITP507	Mini Project - I	-	-	4	60	-	40	100	4
Internship	BTITF508	Internship – II Evaluation	-	-	-	-	-	-	-	Audit
			12	2	10	260	80	360	700	21
Semester VI										
PCC	BTITC601*	Operating Systems	3	1	-	20	20	60	100	4
PCC	BTITC602	Database Management Systems	3	1	-	20	20	60	100	4
PEC	BTITPE603A	Elective- IV Software Testing Data Storage Technologies & Networks Service Oriented Architecture Network Programming Data Warehousing & Data Mining	3	-	-	20	20	60	100	3
	BTITPE603B									
	BTITPE603C									
	BTITPE603D									
	BTITPE603E									
	BTITPE603E									



OEC	BTITOE604A BTITOE604B BTITOE604C BTITOE604D BTITOE604E	Elective- V Compiler Design Enterprise Resource Planning Decision Support Systems Software Project Management Introduction to Data Science	3	-	-	20	20	60	100	3
LC	BTITL605	Database Management Systems Lab	-	-	2	60	-	40	100	1
LC	BTITL606	Operating Systems and Elective-IV Lab	-	-	4	60	-	40	100	2
Project	BTITP607	Mini Project - II	-	-	4	60	-	40	100	4
Internship	Internship- III	Field Training / Internship/Industrial Training (minimum of 4 weeks which can be completed partially in fifth semester and sixth semester or at one time).	-	-	-	-	-	-	-	To be audited in VII Sem.
			12	2	10	260	80	360	700	21

* These courses are to be studied on self-study mode using SWAYAM/NPTEL/Any other source.

BSC = Basic Science Course, ESC = Engineering Science Course, PCC = Professional Core Course
 PEC = Professional Elective Course, OEC = Open Elective Course, LC = Laboratory Course
 HSSMC = Humanities and Social Science including Management Courses

