

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE
Course Structure for Final Year B. Tech. Programme in Information Technology
(Academic year 2023-24)

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 VII													
1	BTITC701	Cloud Computing and Storage	2	-	-	20	20	60	100	2	2		
2	BTITC702	Artificial Intelligence#	3	-	-	20	20	60	100	3	3		
3	Elective VII		3	-	-	20	20	60	100	3	3		
	BTITE703A	A) Pattern Recognition											
	BTITE703B	B) Soft Computing											
	BTITE703C	C) Electronic Payment System [@]											
4	Elective VIII (Open)		3	-	-	20	20	60	100	3	3		
	BTITOE704A	A) Financial Accounting											
	BTITOE704B	B) Machine Learning											
	BTITOE704C	C) Deep Learning											
5	Elective IX		3	-	-	20	20	60	100	3	3		
	BTITPE705A	A) Real Time Systems											
	BTITPE705B	B) Information Security											
	BTITPE705C	C) Management Information Systems											
	BTITPE705D	D) Distributed Computing											
	BTITPE705E	E) Natural Language Processing											
6	BTITL706	Cloud Computing and Storage	-	-	2	-	15	15	10	10	50	1	2
7	Elective VII Lab		-	-	2	-	15	15	10	10	50	1	2
	BTITEL707A	A) Pattern Recognition Lab											
	BTITEL707B	B) Soft Computing Lab											
	BTITEL707C	C) Electronic Payment System Lab											
8	Elective IX Lab		-	-	2	-	15	15	10	10	50	1	2
	BTITPEL708A	A) Real Time Systems Lab											
	BTITPEL708B	B) Information Security Lab											
	BTITPEL708C	C) Management Information Systems											
	BTITPEL708D	D) Distributed Computing Lab											
	BTITPEL708E	E) Natural Language Processing Lab											
9	BTITP709	Project Phase I*	-	-	4	-	30	10	10	50	2	4	
10	BTITF710	Field Training / Internship/ Industrial Training-	-	-	-	-	-	50	50	1	-		
Summary of Semester Assessment Marks, Credit & Hours			14	-	10	100	220	430	750	20	24		

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							CA-I	CA-II	Internal				External
Semester VIII													
1	BTITC801	Internet of Things#	3	-	-	20	20		60	100	3	3	
2	BTITC802	Mobile Computing#	3	-	-	20	20		60	100	3	3	
3	BTITP803	Project Phase II/ Project with Internship**	-	-	24	-	50	50	50	150	12	24	
Summary of Semester Assessment Marks, Credit & Hours			6	-	24	40	90	220	350	18	30		

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

@ Course designed and run by ELECTRONIC PAYMENT AND SERVICES (P) LTD, Mumbai.

* In case of students opting for Internship in the eighth semester, the Project must be industry-based.

** Six months of Internship in the industry.

Semester VIII												
1	BTITC801	Internet of Things#	3	-	-	20	20	60	100	3	3	
2	BTITC802	Mobile Computing#	3	-	-	20	20	60	100	3	3	
3	BTITP803	Project Phase II/ Project with Internship**	-	-	24	-	50	50	50	150	12	24
Summary of Semester Assessment Marks, Credit & Hours			6	-	24	40	90	220	350	18	30	

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

Semester V										
Course Category	Course Code	Course Title	Teaching Scheme			Evaluation Scheme				
			L	T	P	CA	MSE	ESE	Total	Credits
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 BTITPE503B BTITPE503C BTITPE503D BTITPE503E BTITPE503F	Elective- II Embedded Systems IT Service Management Information Storage Management Network Management Data Visualization Virtual Reality	3	-	-	20	20	60	100	3
OEC	BTITOE504A BTITOE504B BTITOE504C BTITOE504D BTITOE504E BTITOE504F	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
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
Internshi	BTITF508	Internship – II Evaluation	-	-	-	-	-	-	-	Audit
			12	2	10	260	80	360	700	21

Semester VI										
Course Category	Course Code	Course Title	Teaching Scheme			Evaluation Scheme				
			L	T	P	CA	MSE	ESE	Total	Credits
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									
OEC	BTITOE604A	Elective- V Compiler Design Enterprise Resource Planning Decision Support Systems Software Project Management Introduction to Data Science	3	-	-	20	20	60	100	3
	BTITOE604B									
	BTITOE604C									
	BTITOE604D									
	BTITOE604E									
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

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B. Tech. Programme in Information Technology

Course Structure Second Year B. Tech. (With effect from 2021-22)

Semester III										
Course Category	Course Code	Course Title	Teaching Scheme			Evaluation Scheme				
			L	T	P	CA	MSE	ESE	Total	Credit
BSC	BTBS301	Engineering Mathematics - III	3	1	-	20	20	60	100	4
HSSMC	BTHM3402	Interpersonal Communication Skills and Self-Development for Engineers	2	-	-	20	20	60	100	2
PCC	BTITC303*	Computer Architecture and Organization	3	1	-	20	20	60	100	4
PCC	BTITC304	Object Oriented Paradigm with C++	3	1	-	20	20	60	100	4
PCC	BTITC305	Data Structures and Applications	3	1	-	20	20	60	100	4
LC	BTITL306	Object Oriented Paradigm with C ++ Lab	-	-	2	60	-	40	100	1
	BTITL307	Data Structures and Applications Lab	-	-	2	60	-	40	100	1
Seminar	BTITS308	Seminar – I	-	-	-	60	-	40	100	2
Internship	Internship - I	Internship - I Evaluation	-	-	-	-	-	-	-	Audit
			14	4	4	280	100	420	800	22
Semester IV										
HSSMC	BTITHM401	Organizational Behavior	3	-	-	20	20	60	100	3
HSMC	BTITHM402	Universal Human Values-II	3	-	-	20	20	60	100	3
PCC	BTITC402	Probability and Statistics	3	1	-	20	20	60	100	4
PCC	BTITC403*	Discrete Mathematics	3	1	-	20	20	60	100	4
PCC	BTITC404	Design and Analysis of Algorithms	3	1	-	20	20	60	100	4
PEC	BTITPE405A	Elective-I	2	1	-	20	20	60	100	3
	BTITPE405B	Digital Logic and Microprocessor Web								
	BTITPE405C	Technology Physics of Engineering Materials								
HSSMC	BTITHM406	Constitution of India	2	-	-	-	-	50	50	Audit
LC	BTITL407	Design and Analysis of Algorithms Lab	-	-	2	60	-	40	100	1
	BTITL408	Elective- I Lab	-	-	2	60	-	40	100	1
Seminar	BTITS409	Seminar - II	-	-	-	60	-	40	100	2
Internship	Internship - II	Field Training / Internship/Industrial Training (minimum of 4 weeks which can be completed partially in third semester and fourth semester or at one time).	-	-	-	-	-	-	-	To be audited in V Sem.
			16	4	4	280	100	470	850	25

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