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Dr. Babasaheb Ambedkar Technological University, Lonere

Teaching and Evaluation Scheme for First Year B. Tech. (All Branches)

Group A

Semester I										
Course Code	Course Title	Teaching Scheme			Evaluation Scheme				Credit	
		L	T	P	CA	MSE	ESE	Total		
Mandatory	Induction Program	3-weeks duration in the beginning of semester.								
BTBS101	Engineering Mathematics- I	3	1	-	20	20	60	100	4	
BTBS102	Engineering Physics	3	1	-	20	20	60	100	4	
BTES103	Engineering Graphics	2	-	-	20	20	60	100	2	
BTHM104	Communication Skills	2	-	-	20	20	60	100	2	
BTES105	Energy and Environment Engineering	2	-	-	20	20	60	100	2	
BTES106	Basic Civil and Mechanical Engineering	2	-	-	50	-	-	50	Audit	
BTBS107L	Engineering Physics Lab	-	-	2	60	-	40	100	1	
BTES108L	Engineering Graphics Lab	-	-	4	60	-	40	100	2	
BTHM109L	Communication Skills Lab.	-	-	2	60	-	40	100	1	
		14	2	8	330	100	420	850	18	
Semester II										
BTBS201	Engineering Mathematics-II	3	1	-	20	20	60	100	4	
BTBS202	Engineering Chemistry	3	1	-	20	20	60	100	4	
BTES203	Engineering Mechanics	2	1	-	20	20	60	100	3	
BTES204	Computer Programming in C	3	-	-	20	20	60	100	3	
BTES205	Workshop Practices	-	-	4	60	-	40	100	2	
BTES206	Basic Electrical and Electronics Engineering	2	-	-	50	-	-	50	Audit	
BTBS207L	Engineering Chemistry Lab	-	-	2	60	-	40	100	1	
BTES208L	Engineering Mechanics Lab	-	-	2	60	-	40	100	1	
BTES210S	Seminar	-	-	2	60	-	40	100	1	
BTES211P	Field Training / Internship/Industrial Training (minimum of 4 weeks which can be completed partially in first semester and second Semester or in at one time).	-	-	-	-	-	-	-	Credits To be evaluate d in III Sem.	
		13	3	10	430	80	440	950	19	
									27	


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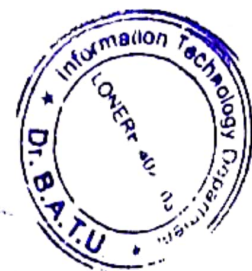


Dr. Babasaheb Ambedkar Technological University, Lonere

Teaching and Evaluation Scheme for First Year B. Tech. (All Branches)

Group B

Semester I										
Course Code	Course Title	Teaching Scheme			Evaluation Scheme				Credit	
		L	T	P	CA	MSE	ESE	Total		
Mandatory	Induction Program	3-weeks duration in the beginning of semester.								
BTBS101	Engineering Mathematics- I	3	1	-	20	20	60	100	4	
BTBS102	Engineering Chemistry	3	1	-	20	20	60	100	4	
BTES103	Engineering Mechanics	2	1	-	20	20	60	100	3	
BTES104	Computer Programming in C	3	-	-	20	20	60	100	2	
BTES105L	Workshop Practices	-	-	4	60	-	40	100	2	
BTES106	Basic Electrical and Electronics Engineering	2	-	-	50	-	-	50	Audit	
BTBS107L	Engineering Chemistry Lab	-	-	2	60	-	40	100	1	
BTES108L	Engineering Mechanics Lab	-	-	2	60	-	40	100	1	
		13	03	10	370	80	400	850	18	
		25								
Semester II										
BTBS201	Engineering Mathematics-II	3	1	-	20	20	60	100	4	
BTBS202	Engineering Physics	3	1	-	20	20	60	100	4	
BTES203	Engineering Graphics	2	-	-	20	20	60	100	2	
BTHM204	Communication Skills	2	-	-	20	20	60	100	2	
BTES205	Energy and Environment Engineering	2	-	-	20	20	60	100	2	
BTES206	Basic Civil and Mechanical Engineering	2	-	-	50	-	-	50	Audit	
BTBS207L	Engineering Physics Lab	-	-	2	60	-	40	100	1	
BTES208L	Engineering Graphics Lab	-	-	3	60	-	40	100	2	
BTHM209L	Communication Skills Lab.	-	-	2	60	-	40	100	1	
BTES210S	Seminar	-	-	2	60	-	40	100	1	
BTES211P	Field Training / Internship/Industrial Training (minimum of 4 weeks which can be completed partially in first semester and second Semester or in at one time)	-	-	-	-	-	-	-	Credits To be evaluate d in III Sem.	
		14	02	09	390	100	460	950	19	
		26								



DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

B. Tech. Programme in Information Technology
Second Year B. Tech. (With effect from 2021-22)

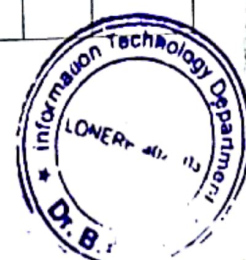
Semester III										
Course Category	Course Code	Course Title	Teaching Scheme			Evaluation Scheme				
			L	T	P	CA	MSE	ESE	Total	Credit
BSC	BTBS301	Engineering Mathematics - III	3	1	-	20	20	60	100	4
HSSMC	BTBM3402	Interpersonal Communication Skills and Self-Development for Engineers	2	-	-	20	20	60	100	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
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 BTITPE405B BTITPE405C	Elective-I Digital Logic and Microprocessor	2	1	-	20	20	60	100	3
		Web Technology	-	-	-	-	-	50	50	Audit
		Physics of Engineering Materials	-	-	-	-	-	50	50	Audit
HSSMC	BTITHM406	Constitution of India	2	-	-	-	-	40	100	1
LC	BTITL407	Design and Analysis of Algorithms Lab	-	-	2	60	-	40	100	1
	BTITL408	Elective- I Lab	-	-	2	60	-	40	100	2
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	22

* 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



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	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

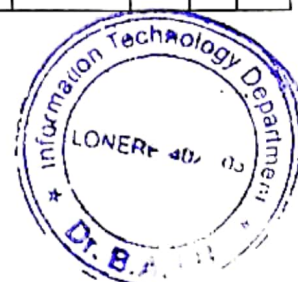
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BSC = Basic Science Course, ESC = Engineering Science Course, PCC = Professional Core Course
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Teaching and Evaluation Scheme for Final Year B. Tech. Programme in Information Technology
(For Academic year 2020-21)

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 Management	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) Natural Language Processing											
	BTITOE704B	B) Machine 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) Data Warehousing and Data Mining											
6	BTITL706	Cloud Computing and Storage Management Lab	-	-	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 Lab											
	BTITPEL708D	D) Distributed Computing Lab											
	BTITPEL708E	E) Data Warehousing and Data Mining Lab											
9	BTITP709	Project Phase I*	-	-	4	-	30		10	10	50	2	4
10	BTITF710	Field Training / Internship/ Industrial Training-III Evaluation	-	-	-	-	-		50	50	1	-	
Summary of Semester Assessment Marks, Credit & Hours			14	-	10	100	220	430	750	20	24		



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.

Course Code	Course Title	SWAYAM course URL
BTITC702	Artificial Intelligence	https://nptel.ac.in/courses/106/102/106102220/
BTITC801	Internet of Things	https://nptel.ac.in/courses/106/105/106105166/
BTITC802	Mobile Computing	https://nptel.ac.in/courses/106/106/106106147/

