

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India (Autonomous Institute Affiliated to University of Mumbai)

Scheme for First Year B.Tech (2019-20)

Total Credits: 160 credits with SEM VIII Internship

Effective for students admitted in first year in Academic Year 2019-20 Group 1: Computer Engineering and Information Technology

	SEM I (Group 1)								
Course	Course Name	Group	Tea	ching	Credits				
Code			Sch	eme					
			(Hr	s/wee	k)				
			L	T	P	Total			
BS11	Linear Algebra & Differential Calculus	BS	3			3			
BS12	Engineering Physics	BS	4	1		5			
ES11	Structured Programming Approach	ES	3			3			
ES12	Digital Circuits	PC	3			3			
BSL11	Computational Mathematics Lab-I	BS			2	1			
BSL12	Engineering Physics Lab	BS			2	1			
ESL11	Structured Programming Approach Lab	ES			4(2+2)	2			
ESL12	Digital Circuits Lab	PC			2	1			
ESL16	Workshop I	ES			2	1			
HSS11	Communication Skills	HSS	2		2	3			
MC21	Environmental Studies (Non-Credit)	MC	1						
ABL-A	Essence of Indian Traditional Knowledge (Non-Credit)	MC	1						
	Total		17	1	14	23			

	SEM II (Group 1)								
Course	Course Name	Group	Tea	ching	,	Credits			
Code			Sch	eme					
			(Hr	·s/wee	ek)				
			L	T	P	Total			
BS21	Differential Equations & Integral Calculus	BS	3			3			
BS23	Engineering Chemistry	BS	2			2			
ES23	Basic Electrical and Electronics Engineering	ES	3			3			
ES24	Engineering Graphics	ES	2			2			
BSL21	Computational Mathematics Lab-II	BS			2	1			
BSL23	Engineering Chemistry Lab	BS			2	1			
ESL23	Basic Electrical and Electronics Engineering Lab	ES	-		2	1			
ESL24	Engineering Graphics Lab	ES	1		4(2+2)	2			
ESL25	Python Programming Lab	ES	1	1	2	1			
ESL26	Workshop II	ES			2	1			
MC22	Constitution of India (Non-Credit)	MC	1						
LSC	Life Skill Courses (Non-Credit)	LA	1						
	Total		12		14	17			

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Group 2: Electronics and Electronics & Telecommunication

	SEM I (Group 2)								
Course	Course Name	Group	Teaching			Credits			
Code			~ ~~	eme					
			(Hı		eek)				
			L	T	P	Total			
BS11	Linear Algebra & Differential Calculus	BS	3			3			
BS13	Engineering Chemistry	BS	2			2			
ES13	Basic Electrical Technology	ES	3			3			
ES14	Engineering Graphics	ES	2		2				
BSL11	Computational Mathematics Lab-I	BS			2	1			
BSL13	Engineering Chemistry Lab	BS			2	1			
ESL13	Basic Electrical Technology Lab	ES			2	1			
ESL14	Engineering Graphics Lab	ES			4(2+2)	2			
ESL15	Python Programming Lab	ES			2	1			
ESL16	Workshop I	ES			2	1			
HSS11	Communication Skills	HSS	2		2	3			
MC22	Constitution of India (Non-Credit)	MC	1						
ABL-A	Essence of Indian Traditional Knowledge (Non-	MC	1						
	Credit)								
	Total		14	-	16	20			

	SEM II (Group 2)								
Course Code	Course Name	Group	Teaching Scheme (Hrs/week)			Credits			
			L	T	P	Total			
BS21	Differential Equations & Integral Calculus	BS	3	-	1	3			
BS22	Engineering Physics	BS	4	1		5			
ES21	Structured Programming Approach	ES	3			3			
ES22	Digital Circuits	PC	3			3			
BSL21	Computational Mathematics Lab-II	BS			2	1			
BSL22	Engineering Physics Lab	BS			2	1			
ESL21	Structured Programming Approach Lab	ES			4(2+2)	2			
ESL22	Digital Circuits Lab	PC			2	1			
ESL26	Workshop II	ES		-	2	1			
MC21	Environmental Studies (Non-Credit)	MC	1						
LSC	Life Skill Courses (Non-Credit)	LA	1						
	Total		15	1	12	20			

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	SEM III						
Course Code	Course Name	Group	Teaching Scheme (Hrs/week)			Credits	
			L	T	P	Total	
BS31	Applied Mathematics I*	BS	3	1		4	
EL31	Department Core-1	PC	3			3	
EL32	Department Core-2			3			
EL33	Department Core-3	PC	3	1		4	
ELL31	Department Core Lab-1	PC			2	1	
ELL32	Department Core Lab-2	PC			2	1	
ELL33	Department Core Lab-3	PC			2	1	
ELL34	Object Oriented Programming Lab*	PC		1	2	2	
BS32	Human Health Systems Approach	BS	1			1	
SDX	SCOPE Course (Optional)	SD					
ABL1	Building Automation, Fire Safety and Electronic Security	ABL		2	1		
CEP1	Introduction to CEP (Optional)	CEP					
ВС	Fundamentals of Mathematics(Noncredit) (only for direct second year students)	ВС	2				
AC	Additional Course (For Fast Learners)	PC	2		2	3	
	Total		13+2	3	10	21	
	SEM IV						
Course Code	Course Name	Group	Teach	ing S	cheme	Credits	
			(H	rs/we	ek)		
			L	T	P	Total	
BS41	Applied Mathematics II*	BS	3	1		4	
EL41	Department Core-4	PC	3			3	
EL42	Department Core-5	PC	3			3	
EL43	Department Core-6	PC	3			3	
ELL41	Department Core Lab-4	PC			2	1	
ELL42	Department Core Lab-5	PC			2	1	
ELL43	Department Core Lab-6	PC			2	1	
ELL44	Department Core Lab-7	PC			2	1	
ELL45	Department Core Lab-8	PC			2	1	
ELP41	Minor Project-I	PR			2	1	
LSC^	Life Skill Course (Non credit)	LA	1				
SDX	SCOPE Course (Optional)	SD					
ABL2	Occupational Safety & Legal Studies for Engineers	ABL			2	1	
CEP2	Problem solving module-I (Optional)	CEP					
AC	Additional Course (For Fast Learners)	PC	2		2	3	
	Total		13	1	14	20	

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	SEM V							
Course Code	Course Name	Group		ing S rs/we	cheme ek)	Credits		
			L	T	P	Total		
EL51	Department Core-7	PC	3			3		
EL52	Department Core-8	PC	3			3		
EL53	Department Core-9	PC	3			3		
EL54	Department Core-10	PC	3			3		
ELL51	Department Core Lab-9	PC			2	1		
ELL52	Department Core Lab-10	PC			2	1		
ELL53	Department Core Lab-11	PC			2	1		
ELL54	Department Core Lab-12	PC		1	2	2		
ELL55	Department Core Lab-13	PC			2	1		
ELP51	Minor Project-II	PR			2#	1		
MC^	Mandatory Course	MC	2			2		
SDX	SCOPE Course (Optional)	SD						
ABL3	Design Thinking, Diversity and Workplace	ABL			2	1		
	Etiquettes							
CEP3	Problem solving module-II (Optional)	CEP						
AC	Additional Course (For Fast Learners)	PC	2	-	2	3		
	Total		14	1	14	22		
	SEM VI							
Course Code	Course Name	Group			cheme	Credits		
				rs/we	ek)			
			L	T	P	Total		
EL61^	Department Elective-1	PC	3			3		
EL62^	Department Elective-2	PC	3			3		
ELL61^	Department Elective Lab-1	PC			2	1		
ELL62^	Department Elective Lab-2	PC			2	1		
ELL63	Department Core Lab-14	PC			2	1		
ELP61	Major Project I	PR			8#	4		
HSS61	Advanced Communication Skills	HSS	1		2	2		
OE^	Open Elective @	OE	3@		2@	4@		
SDX	SCOPE Course (Optional)	SD						
ABL4	Technical Paper and Patent Drafting	ABL			2	1		
CEP4	Problem solving module-III (Optional)	CEP						
MC^	Mandatory Course	MC	2			2		
AC	Additional Course (For Fast Learners)	PC	2		2	3 18+4@		
	Total		9+3@	9+3@ 18+2@				

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	SEM VII					
Course Code	Course Name	Group	Teaching Scheme (Hrs/week)			Credits
			L	T	P	Total
ELE71^	Department Elective-3	PE	3			3
ELE72^	Department Elective-4	PE	3			3
ELEL71^	Department Elective Lab-3	PE			2	1
ELEL72^	Department Elective Lab-4	PE			2	1
ELL73	Department Core Lab-15	PC			2	1
HSS81	Technology Entrepreneurship Lab	HSS			2	1
ELP71	Major Project-II	PR	16#		16#	8
OE^	Open Elective @	OE	3@		2@	4@
MOOC	MOOC	MOOC				2
ABL5	Financial Planning, Taxation Policies and	ABL			2	1
	Investment					
CEP5	Problem solving module-IV (Optional)	CEP				
	Total		6+3@		26+2@	21+4@
	SEM VIII					
Course Code	Course Name	Group Teaching Scheme		eme	Credits	
			(Hrs/week)			
			L	T	P	Total
INT	Internship (6 Months)	INT				10
CEP6	Problem solving module-V (Optional)	CEP				
	Total					10

SEM	Teaching Scheme (Hrs/week)			Total Hrs /Week	Credits
	L	T	P		Total
I (Gr1)	16	1	14	31	22
I (Gr2)	15		16	31	21
II (Gr1)	13		14	27	18
II (Gr2)	14	1	12	27	19
III	13+2	3	10	26+2	21
IV	13	1	14	28	20
V	14	1	14	29	22
VI	9+3@		18+2@	32	18+4@
VII	6+3@		26+2@	37 (project 16)	21+4@
VIII					10
		r	Fotal Credits		160

Additional 12 credits for advanced courses for fast learners (Students with CGPI greater than or equal to 8 can opt for these courses).

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Principal, S.P.I.T.