

1. Abbreviations

Course Categories as per AICTE

BS: Basic Science

EC: Engineering Science

PC: Programme Core Course

PE: Programme Elective

OE: Open Elective

HS: Humanities Social Science and Management

CC: Co-curricular Courses

PR: Project Work

IN: Internship

Course Sub-categories as per Maharashtra state NEP

MDM: Multidisciplinary Minor

VSEC: Vocational and Skill Enhancement Course

AEC: Ability Enhancement Course

IKS: Indian Knowledge System

VEC: Value Education Course

CEP: Comm. Engg. Project

FP: Field Project

2. Course Code

ME	1	2	0	1	T
Offering Academic Unit (Dept/Centre of Excellence)	Year	Revision number	Course Number		Course Component

F. Y. B. Tech. (1. Mechanical Engineering 2. Automation and Robotics Engineering)
Curriculum Pattern: 2025
 (Level 4.5) -Semester – I

S.N.	Course category	Course Code	Course title	Teaching Scheme, Classroom Contact hr/week (contact hr/semester)		Self-learning	Total Classroom Contact hr/week (contact hr/semester)		Credit (Total contact of semester /30)	Examination scheme (Marks)					
										Continuous Assessment			Semester End Examination		Total Marks
				L	T	P	SL	Hr	C	TA1	MSE	TA2	ESE	ESE Project/Seminar/other	
1	BSC	ES1301T	Calculus	3	1	-	4	8	4	10	30	10	50	-	100
2	BSC	ES1307T/ ES1309T	Physics for Engineers/ Chemistry for Engineers	3	-	-	3	6	3	10	30	10	50	-	100
3	BSC	ES1307L/ ES1309L	Physics for Engineers Laboratory/ Chemistry for Engineers Laboratory	-	-	2	1	3	1	10	10	10	20	-	50
4	ESC	CS1301T	Introduction to Computer Programming and Data Structure	2	-	-	2	4	2	10	30	10	50	-	100
5	ESC	CS1301L	Introduction to Computer Programming and Data Structure Lab	-	-	4	2	6	2	10	10	10	20	-	50

6	ESC	EC1301T	Basic Electronics Engineering	2	-	-	2	4	2	10	30	10	50	-	100
7	ESC	EC1301L	Basic Electronics Engineering Laboratory	-	-	2	1	3	1	10	10		20	-	50
8	HSSM (AEC)	HS1302T/ HS1303T/ HS1304T/ HS1305T	Professional English Communication/ English Language Skills/ German Language Skills /Japanese Language Skills	2	-	-	2	4	2	10	30		50	-	100
9	HSSM (AEC)	HS1302L/ HS1303L/ HS1304L/ HS1305L	Professional English Communication Laboratory/ English Language Skills Laboratory/ German Language Skills Laboratory/ Japanese Language Skills Laboratory	-	-	2	1	3	1	10	10		20	-	50
10	HSSM (VSEC)	ME1301L	Workshop Practice	-	-	4	2	6	2	20	20	20	40	-	100
11	HSSM (IKS)	HS1307T	Indian Knowledge Systems	2	-	-	2	4	2	05	20	05	20	-	50
12	HSSM	HS1301	Induction Training	Non Credit Course											
Total				14	1	14	22	51	22	115	230	115	390	-	850

Note: all marked are scaled down marks

TA1: Teacher's Assessment 1, TA2: Teacher's Assessment 2, MSE: Mid Semester Examination, ESE: End Semester Examination

F. Y. B. Tech. (1. Mechanical Engineering 2. Automation and Robotics Engineering)

Curriculum Pattern: 2025

(Level 4.5) -Semester – II

S.N.	Course category	Course Code	Course title	Teaching Scheme, Classroom Contact hr/week (contact hr/semester)		Self-learning	Total Classroom Contact hr/week (contact hr/semester)		Credit (Total contact of semester /30)	Examination scheme (Marks)					
										Continuous Assessment			Semester End Examination		Total Marks
				L	T	P	SL	Hr	C	TA1	MSE	TA2	ESE	ESE Project/ Seminar/other	
1	BSC	ES1302T	Linear Algebra and Integral Transform	3	1	-	4	8	4	10	30	10	50	-	100
2	BSC	ES1309T / ES1307T	Chemistry for Engineers/ Physics for Engineers	3	-	-	3	6	3	10	30	10	50	-	100
3	BSC	ES1309L/ ES1307L	Chemistry for Engineers Laboratory/ Physics for Engineers Laboratory	-	-	2	1	3	1	10	10	10	20	-	50
4	ESC	CE1301T	Engineering Mechanics	3	-	-	3	6	3	10	30	10	50	-	100

5	ESC	CE1301L	Engineering Mechanics Laboratory	-	-	2	1	3	1	10	10	10	20	-	50
6	ESC	EE1301T	Introduction to Electrical Engineering	3	-	-	3	6	3	10	30	10	50	-	100
7	ESC	EE1301L	Introduction to Electrical Engineering Laboratory	-	-	2	1	3	1	10	10	10	20	-	50
8	HSSM (VSEC)	ME1302L	Engineering Drawing Laboratory	-	-	4	2	6	2	20	20	20	40	-	100
9	ESC	ES1310T	Biology for Engineers	2	-	-	2	4	2	10	30	10	50	-	100
10	HSSM	ES1311L	Community Engagement Project	-	-	2	1	3	1	10	10	10	20	-	50
11	HSSM (VSEC)	ES1312L	Introduction to Engineering and Engineering Products	-	-	2	1	3	1	10	10	10	20	-	50
12	HSSM	HS1306	Indian Constitution	Non-Credit Course											
Total				14	1	14	22	51	22	120	220	120	390	-	850

Note: all marked are scaled down marks

TA1: Teacher's Assessment 1, TA2: Teacher's Assessment 2, MSE: Mid Semester Examination, ESE: End Semester Examination

F. Y. B. Tech. (1. Electronics and Telecommunication Engineering 2. Electrical Engineering 3. Civil Engineering)

Curriculum Pattern: 2025

(Level 4.5) -Semester – I

S.N.	Course category	Course Code	Course title	Teaching Scheme, Classroom Contact hr/week (contact hr/semester)		Self-learning	Total Classroom Contact hr/week (contact hr/semester)		Credit (Total contact of semester /30)	Examination scheme (Marks)					
										Continuous Assessment			Semester End Examination		Total Marks
				L	T	P	SL	Hr	C	TA1	MSE	TA2	ESE	ESE Project/ Seminar/other	
1	BSC	ES1301T	Calculus	3	1	-	4	8	4	10	30	10	50	-	100
2	BSC	ES1309T	Chemistry for Engineers	3	-	-	3	6	3	10	30	10	50	-	100
3	BSC	ES1309L	Chemistry for Engineers Laboratory	-	-	2	1	3	1	10	10	10	20	-	50

4	ESC	CE1301T	Engineering Mechanics	3	-	-	3	6	3	10	30	10	50	-	100
5	ESC	CE1301L	Engineering Mechanics Laboratory	-	-	2	1	3	1	10	10	10	20	-	50
6	ESC	EE1301T	Introduction to Electrical Engineering	3	-	-	3	6	3	10	30	10	50	-	100
7	ESC	EE1301L	Introduction to Electrical Engineering Laboratory	-	-	2	1	3	1	10	10	10	20	-	50
8	HSSM (VSEC)	ME1302L	Engineering Drawing Laboratory	-	-	4	2	6	2	20	20	20	40	-	100
9	ESC	ES1310T	Biology for Engineers	2	-	-	2	4	2	10	30	10	50	-	100
10	HSSM	ES1311L	Community Engagement Project	-	-	2	1	3	1	10	10	10	20	-	50
11	HSSM (VSEC)	ES1312L	Introduction to Engineering and Engineering Products	-	-	2	1	3	1	10	10	10	20	-	50
12	HSSM	HS1301	Induction Training	Non Credit Course											
Total				14	1	14	22	51	22	120	220	120	390	-	850

Note: all marked are scaled down marks

TA1: Teacher's Assessment 1, TA2: Teacher's Assessment 2, MSE: Mid Semester Examination, ESE: End Semester Examination

F. Y. B. Tech. (1. Electronics and Telecommunication Engineering 2. Electrical Engineering 3. Civil Engineering)

Curriculum Pattern: 2025

(Level 4.5) -Semester – II

S.N.	Course category	Course Code	Course title	Teaching Scheme, Classroom Contact hr/week (contact hr/semester)		Self-learning	Total Classroom Contact hr/week (contact hr/semester)		Credit (Total contact of semester /30)	Examination scheme (Marks)					
										Continuous Assessment			Semester End Examination		Total Marks
				L	T	P	SL	Hr	C	TA1	MSE	TA2	ESE	ESE Project/ Seminar/other	
1	BSC	ES1302T	Linear Algebra and Integral Transform	3	1	-	4	8	4	10	30	10	50	-	100
2	BSC	ES1307T	Physics for Engineers	3	-	-	3	6	3	10	30	10	50	-	100

[illegible]

Total	14	1	14	22	48	22	115	230	115	390	-	850
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Note: all marked are scaled down marks

TA1: Teacher's Assessment 1, TA2: Teacher's Assessment 2, MSE: Mid Semester Examination, ESE: End Semester Examination

F. Y. B. Tech. (Computer Engineering)

Curriculum Pattern: 2025

(Level 4.5) -Semester – I

S.N.	Course category	Course Code	Course title	Teaching Scheme, Classroom Contact hr/week (contact hr/semester)	Self-learning	Total Classroom Contact hr/week (contact hr/semester)	Credit (Total contact of semester /30)	Examination scheme (Marks)		
								Continuous Assessment	Semester End Examination	Total Marks

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	HSSM (AEC)	HS1304L/ HS1305L	Laboratory/ English Language Skills Laboratory/ German Language Skills Laboratory/ Japanese Language Skills Laboratory	-	-	2	1	3	1	10	10	10	20		50
11	HSSM	HS1301	Induction Training	Non Credit Course											
Total				15	2	10	22	49	22	100	220	100	380	-	800

Note: all marked are scaled down marks

TA1: Teacher's Assessment 1, TA2: Teacher's Assessment 2, MSE: Mid Semester Examination, ESE: End Semester Examination

F. Y. B. Tech. (Computer Engineering)

Curriculum Pattern: 2025

(Level 4.5) -Semester – II

S.N.	Course category	Course Code	Course title	Teaching Scheme, Classroom Contact hr/week (contact hr/semester)	Self-learning	Total Classroom Contact hr/week (contact hr/	Credit (Total contact of semester /30)	Examination scheme (Marks)
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						n g	semest er)			Continuous Assessment			Semester End Examination		Total Marks
				L	T		SL	Hr		TA1	MSE	TA2	ESE	ESE Project/ Seminar/other	
1	BSC	ES1302T	Linear Algebra and Integral Transform	3	1	-	4	8	4	10	30	10	50	-	100
2	BSC	ES1309T	Chemistry for Engineers	3	-	-	3	6	3	10	30	10	50	-	100
3	BSC	ES1309L	Chemistry for Engineers Laboratory	-	-	2	1	3	1	10	10	10	20	-	50
4	CS	CS1302T	Object Oriented Programming	2	-	-	2	4	2	10	30	10	50	-	100
5	CS	CS1302L	Object Oriented Programming Laboratory	-	-	4	2	6	2	10	10	10	20	-	50
6	ESC	EE1301T	Introduction to Electrical Engineering	3	-	-	3	6	3	10	30	10	50	-	100
7	ESC	EE1301L	Introduction to Electrical Engineering Laboratory	-	-	2	1	3	1	10	10	10	20	-	50
8	ESC	ES1310T	Biology for Engineers	2	-	-	2	4	2	10	30	10	50	-	100
9	HSSM (IKS)	HS1307T	Indian Knowledge Systems	2	-	-	2	4	2	05	20	05	20	-	50
10	HSSM	ES1311L	Community Engagement Project	-	-	2	1	3	1	10	10	10	20	-	50
11	HSSM (VSEC)	ES1312L	Introduction to Engineering and	-	-	2	1	3	1	10	10	10	20	-	50

			Engineering Products												
12	HSSM	HS1306	Indian Constitution	Non-Credit Course											
Total				15	1	1	22	50	22	105	220	105	370	-	800

Note: all marked are scaled down marks

TA1: Teacher's Assessment 1, TA2: Teacher's Assessment 2, MSE: Mid Semester Examination, ESE: End Semester Examination

F. Y. B. Tech. Information Technology

Curriculum Pattern: 2025

(Level 4.5) -Semester – I

S.N.	Course category	Course Code	Course title	Teaching Scheme, Classroom Contact hr/week (contact hr/semester)		Self-learning	Total Classroom Contact hr/week (contact hr/semester)		Credit (Total contact of semester /30)	Examination scheme (Marks)					
										Continuous Assessment			Semester End Examination		Total Marks
				L	T	P	SL	Hr	C	TA1	MSE	TA2	ESE	ESE Project/ Seminar/other	
1	BSC	ES1301T	Calculus	3	1	-	4	8	4	10	30	10	50	-	100
2	BSC	ES1309T	Chemistry for Engineers	3	-	-	3	6	3	10	30	10	50	-	100
3	BSC	ES1309L	Chemistry for Engineers Laboratory	-	-	2	1	3	1	10	10	10	20	-	50
4	ESC	CS1301T	Introduction to Computer Programming and Data Structure	2	-	-	2	4	2	10	30	10	50	-	100
5	ESC	CS1301L	Introduction to Computer Programming and Data Structure Laboratory	-	-	4	2	6	2	10	10	10	20	-	50
6	ESC	EE1301T	Introduction to Electrical Engineering	3	-	-	3	6	3	10	30	10	50	-	100
7	ESC	EE1301L	Introduction to Electrical Engineering Laboratory	-	-	2	1	3	1	10	10	10	20	-	50
8	ESC	ES1310T	Biology for Engineers	2	-	-	2	4	2	10	30	10	50	-	100

9	HSSM (IKS)	HS1307T	Indian Knowledge Systems	2	-	-	2	4	2	05	20	05	20	-	50
10	HSSM	ES1311L	Community Engagement Project	-	-	2	1	3	1	10	10	10	20	-	50
11	HSSM (VSEC)	ES1312L	Introduction to Engineering and Engineering Products	-	-	2	1	3	1	10	10	10	20	-	50
12	HSSM	HS1301	Induction Training	Non-Credit Course											
Total				15	1	1 2	22	50	22	105	220	105	370	-	800

Note: all marked are scaled down marks

TA1: Teacher's Assessment 1, TA2: Teacher's Assessment 2, MSE: Mid Semester Examination, ESE: End Semester Examination

F. Y. B. Tech. Information Technology

Curriculum Pattern: 2025

(Level 4.5) -Semester – II

S.N.	Course category	Course Code	Course title	Teaching Scheme, Classroom Contact hr/week (contact hr/semester)		Self-learning	Total Classroom Contact hr/week (contact hr/semester)		Credit (Total contact of semester /30)	Examination scheme (Marks)					
										Continuous Assessment			Semester End Examination		Total Marks
				L	T	P	SL	Hr	C	TA1	MSE	TA2	ESE	ESE Project/ Seminar/other	
1	BSC	ES1302T	Linear Algebra and Integral Transform	3	1	-	4	8	4	10	30	10	50	-	100
2	BSC	ES1304T	Discrete Mathematics	3	1	-	4	8	4	10	30	10	50	-	100
3	BSC	ES1307T	Physics for Engineers	3	-	-	3	6	3	10	30	10	50	-	100
4	BSC	ES1307L	Physics for Engineers Laboratory	-	-	2	1	3	1	10	10	10	20	-	50
5	CS	CS1302T	Object Oriented Programming	2	-	-	2	4	2	10	30	10	50	-	100
6	CS	CS1302L	Object Oriented Programming Laboratory	-	-	4	2	6	2	10	10	10	20	-	50
7	ESC	EC1301T	Basic Electronics Engineering	2	-	-	2	4	2	10	30	10	50	-	100

8	ESC	EC1301L	Basic Electronics Engineering Laboratory	-	-	2	1	3	1	10	10	10	20	-	50
9	HSSM (AEC)	HS1302T/ HS1303T/ HS1304T/ HS1305T	Professional English Communication/ English Language Skills/ German Language Skills /Japanese Language Skills	2	-	-	2	4	2	10	30	10	50	-	100
10	HSSM (AEC)	HS1302L/ HS1303L/ HS1304L/ HS1305L	Professional English Communication Laboratory/ English Language Skills Laboratory/ German Language Skills Laboratory/ Japanese Language Skills Laboratory	-	-	2	1	3	1	10	10	10	20	-	50
11	HSSM	HS1306	Indian Constitution	Non-Credit Course											
Total				15	2	10	22	49	22	100	220	100	380	-	800

Note: all marked are scaled down marks

TA1: Teacher's Assessment 1, TA2: Teacher's Assessment 2, MSE: Mid Semester Examination, ESE: End Semester Examination

F. Y. B. Tech. Computer Science and Business System

Curriculum Pattern: 2025

(Level 4.5) -Semester – I

S.N.	Course category	Course Code	Course title	Teaching Scheme, Classroom Contact hr/week (contact hr/semester)		Self-learning	Total Classroom Contact hr/week (contact hr/semester)		Credit (Total contact of semester /30)	Examination scheme (Marks)					
										Continuous Assessment			Semester End Examination		Total Marks
				L	T	P	SL	Hr	C	TA1	MSE	TA2	ESE	ESE Project/ Seminar/other	
1	BSC	ES1304T	Discrete Mathematics	3	1	-	4	8	4	10	30	10	50	-	100
2	BSC	ES1305T	Introduction to Statistics, Probability and Calculus	3	-	-	3	6	3	10	30	10	50	-	100
3	ESC	CB1301T	Fundamentals of Computer Science	3	-	-	3	6	3	10	30	10	50	-	100
4	ESC	CB1301L	Fundamentals of Computer Science Laboratory	-	-	2	1	3	1	10	10	10	20	-	50
5	ESC	EE1302T	Principles of Electrical Engineering	2	-	-	2	4	2	10	30	10	50	-	100
6	ESC	EE1302L	Principles of Electrical Engineering Laboratory	-	-	2	1	3	1	10	10	10	20	-	50
7	BSC	ES1308T	Fundamentals of Physics	3	-	-	3	6	3	10	30	10	50	-	100

8	BSC	ES1308L	Fundamentals of Physics Laboratory	-	-	2	1	3	1	10	10	10	20	-	50
9	AEC	CB1303L	Business Communication and Value Science-I	-	-	2	1	3	1	10	10	10	20	-	50
10	HSSM (IKS)	HS1307T	Indian Knowledge Systems	2	-	-	2	4	2	05	20	05	20	-	50
11	VSEC	CB1302L	Python Scripting	-	-	4	2	6	2	20	20	20	40	-	100
12	HSSM	HS1301	Induction Training	Non-Credit Course											
Total				16	1	12	23	52	23	115	230	115	390	-	850

Note: all marked are scaled down marks

TA1: Teacher's Assessment 1, TA2: Teacher's Assessment 2, MSE: Mid Semester Examination, ESE: End Semester Examination

F. Y. B. Tech. Computer Science and Business System

Curriculum Pattern: 2025

(Level 4.5) -Semester – II

S.N.	Course category	Course Code	Course title	Teaching Scheme, Classroom Contact hr/week (contact hr/semester)		Self-learning	Total Classroom Contact hr/week (contact hr/semester)		Credit (Total contact of semester /30)	Examination scheme (Marks)					
										Continuous Assessment			Semester End Examination		Total Marks
				L	T	P	SL	Hr	C	TA1	MSE	TA2	ESE	ESE Project/Seminar/other	
1	BSC	ES1303T	Linear Algebra	3	-	-	3	6	3	10	30	10	50		100
2	BSC	ES1306T	Statistical Methods & Modelling	3	-	-	3	6	3	10	30	10	50		100
3	ESC	CS1302T	Object Oriented Programming	2	-	-	2	4	2	10	30	10	50		100
4	ESC	CS1302L	Object Oriented Programming Laboratory	-	-	4	2	6	2	10	10	10	20		50
5	ESC	EC1302T	Principle of Electronics	3	-	-	3	6	3	10	30	10	50		100
6	ESC	EC1302L	Principle of Electronics Laboratory	-	-	2	1	3	1	10	10	10	20		50

7	HSSM (AEC)	HS1302T/ HS1303T/ HS1304T/ HS1305T	Professional English Communication/ English Language Skills/ German Language Skills /Japanese Language Skills	2	-	-	2	4	2	10	30	10	50	-	100
8	HSSM (AEC)	HS1302L/ HS1303L/ HS1304L/ HS1305L	Professional English Communication Laboratory/ English Language Skills Laboratory/ German Language Skills Laboratory/ Japanese Language Skills Laboratory	-	-	2	1	3	1	10	10	10	20	-	50
9	HSSM	HS1308T	Fundamentals of Management and Business Strategy	3	-	-	3	6	3	10	30	10	50		100
10	AEC	CB1304L	Business Communication and Value Science-II	-	-	2	1	3	1	10	10	10	20		50
11	HSSM	HS1306	Indian Constitution	Non-Credit Course											
Total				16	0	10	21	47	21	100	220	100	380	-	800

Note: all marked are scaled down marks

TA1: Teacher's Assessment 1, TA2: Teacher's Assessment 2, MSE: Mid Semester Examination, ESE: End Semester Examination

