DEPARTMENT OF HUMANITIES & SCIENCES

COURSE STRUCTURE (R-22)

For the
Bachelor of Technology
(B. Tech)

With effect from the Academic Year 2024-25

Vidya Jyothi Institute of Technology

(An Autonomous Institution)

DEPARTMENT OF HUMANITIES & SCIENCES
B. TECH I YEAR COURSE STRUCTURE 2024-25
(Civil Engineering)
Semester – I

S. No	Course Code	Course Title	L	T	P	Credits
1	A221001	Mathematics-I(Linear Algebra & Calculus)	3	1	0	4.0
2	A221002	Applied Physics	3	1	0	4.0
3	A221081	Applied Physics Lab	0	0	3	1.5
4	A221501	C-Programming for Engineers	3	0	0	3.0
5	A221581	C-Programming for Engineers Lab	0	0	2	1.0
6	A221003	English for Skill Enhancement	2	0	0	2.0
7	A221082	English Language & Communication Skills Lab	0	0	2	1.0
8	A221101	Elements of Civil Engineering	0	0	2	1.0
9	A221381	Engineering Workshop	0	1	3	2.5
10		Induction Programme				
		Total	11	3	12	20

Semester- II

S. No	Course Code	Course Title	L	T	P	Credits
1	A222005	Mathematics– II (Ordinary Differential Equations & Vector Calculus)	3	1	0	4.0
2	A222006	Engineering Chemistry	3	1	0	4.0
3	A222084	Engineering Chemistry Lab	0	0	2	1.0
4	A222304	Engineering Mechanics	3	0	0	3.0
5	A222102	Building Materials, Construction and Planning	2	0	0	2.0
6	A222303	Engineering Graphics & Modelling	1	0	4	3.0
7	A222583	Python Programming Lab	0	2	2	3.0
		Total	12	4	8	20

DEPARTMENT OF HUMANITIES & SCIENCES
B. TECH I YEAR COURSE STRUCTURE 2024-25
(Electrical & Electronics Engineering)

Semester – I

S. No	Course Code	Course Title	L	T	P	Credits
1	A221001	Mathematics-I(Linear Algebra & Calculus)	3	1	0	4.0
2	A221002	Applied Physics	3	1	0	4.0
3	A221081	Applied Physics Lab	0	0	3	1.5
4	A221501	C-Programming for Engineers	3	0	0	3.0
5	A221581	C-Programming for Engineers Lab	0	0	2	1.0
6	A221003	English for Skill Enhancement	2	0	0	2.0
7	A221082	English Language & Communication Skills Lab	0	0	2	1.0
8	A221201	Elements of Electrical& Electronics Engineering	0	0	2	1.0
9	A221381	Engineering Workshop	0	1	3	2.5
10		Induction Programme				
		Total	11	3	12	20

Semester – II

S. No	Course Code	Course Title	L	T	P	Credits
1	A222005	Mathematics–II (Ordinary Differential Equations & Vector Calculus)	3	1	0	4.0
2	A222006	Engineering Chemistry	3	1	0	4.0
3	A222084	Engineering Chemistry Lab	0	0	2	1.0
4	A222203	Electrical Circuits	3	1	0	4.0
5	A222282	Electrical Circuits Lab	0	0	2	1.0
6	A222303	Engineering Graphics & Modelling	1	0	4	3.0
7	A222583	Python Programming Lab	0	2	2	3.0
		Total	10	5	10	20

DEPARTMENT OF HUMANITIES & SCIENCES

B. TECH I YEAR COURSE STRUCTURE 2024-25
(Mechanical Engineering)

Semester – I

S. No	Course Code	Course Title	L	T	P	Credits
1	A221001	Mathematics-I(Linear Algebra & Calculus)	3	1	0	4.0
2	A221002	Applied Physics	3	1	0	4.0
3	A221081	Applied Physics Lab	0	0	3	1.5
4	A221501	C-Programming for Engineers	3	0	0	3.0
5	A221581	C-Programming for Engineers Lab	0	0	2	1.0
6	A221003	English for Skill Enhancement	2	0	0	2.0
7	A221082	English Language & Communication Skills Lab	0	0	2	1.0
8	A221301	Elements of Mechanical Engineering	0	0	2	1.0
9	A221381	Engineering Workshop	0	1	3	2.5
10		Induction Programme				
		Total	11	3	12	20

Semester- II

S. No	Course Code	Course Title	L	T	P	Credits
1	A222005	Mathematics– II (Ordinary Differential Equations & Vector Calculus)	3	1	0	4.0
2	A222006	Engineering Chemistry	3	1	0	4.0
3	A222084	Engineering Chemistry Lab	0	0	2	1.0
4	A222304	Engineering Mechanics	3	0	0	3.0
5	A222305	Engineering Materials	2	0	0	2.0
6	A222303	Engineering Graphics & Modelling	1	0	4	3.0
7	A222583	Python Programming Lab	0	2	2	3.0
		Total	12	4	8	20

DEPARTMENT OF HUMANITIES & SCIENCES

B. TECH I YEAR COURSE STRUCTURE 2024-25
(Electronics & Communication Engineering)

Semester – I

S. No	Course Code	Course Title	L	T	P	Credits
1	A221001	Mathematics-I(Linear Algebra& Calculus)	3	1	0	4.0
2	A221002	Applied Physics	3	1	0	4.0
3	A221081	Applied Physics Lab	0	0	3	1.5
4	A221501	C-Programming for Engineers	3	0	0	3.0
5	A221581	C-Programming for Engineers Lab	0	0	2	1.0
6	A221003	English for Skill Enhancement	2	0	0	2.0
7	A221082	English Language & Communication Skills Lab	0	0	2	1.0
8	A221401	Elements of Electronics & Communication Engineering	0	0	2	1.0
9	A221381	Engineering Workshop	0	1	3	2.5
10		Induction Programme				
		Total	11	3	12	20

Semester – II

S. No	Course Code	Course Title	L	T	P	Credits
1	A222005	Mathematics–II (Ordinary Differential Equations & Vector Calculus)	3	1	0	4.0
2	A222006	Engineering Chemistry	3	1	0	4.0
3	A222084	Engineering Chemistry Lab	0	0	2	1.0
4	A222204	Basic Electrical Engineering	2	0	0	2.0
5	A222283	Basic Electrical Engineering Lab	0	0	2	1.0
6	A222402	Electronic Devices & Circuits	2	0	0	2.0
7	A222303	Engineering Graphics & Modelling	1	0	4	3.0
8	A222583	Python Programming Lab	0	2	2	3.0
		Total	11	4	10	20

DEPARTMENT OF HUMANITIES & SCIENCES

B. TECH I YEAR COURSE STRUCTURE 2024-25
(Information Technology)
Semester – I

S. No	Course Code	Course Title	L	T	P	Credits
1	A221001	Mathematics-I (Linear Algebra & Calculus)	3	1	0	4.0
2	A221002	Applied Physics	3	1	0	4.0
3	A221081	Applied Physics Lab	0	0	3	1.5
4	A221502	Programming for Problem Solving	3	0	0	3.0
5	A221582	Programming for Problem Solving Lab	0	0	2	1.0
6	A221003	English for Skill Enhancement	2	0	0	2.0
7	A221082	English Language & Communication Skills Lab	0	0	2	1.0
8	A221503	Elements of Computer Science & Engineering	0	0	2	1.0
9	A221381	Engineering Workshop	0	1	3	2.5
10		Induction Programme				
		Total	11	3	12	20

Semester – II

S. No	Course Code	Course Title	L	T	P	Credits
1	A222005	Mathematics – II (Ordinary Differential Equations & Vector Calculus)	3	1	0	4.0
2	A222006	Engineering Chemistry	3	1	0	4.0
3	A222084	Engineering Chemistry Lab	0	0	2	1.0
4	A222303	Engineering Graphics & Modelling	1	0	4	3.0
5	A222204	Basic Electrical Engineering	2	0	0	2.0
6	A222283	Basic Electrical Engineering Lab	0	0	2	1.0
7	A222402	Electronic Devices & Circuits	2	0	0	2.0
8	A222583	Python Programming Lab	0	2	2	3.0
		Total	11	4	10	20

DEPARTMENT OF HUMANITIES & SCIENCES

B. TECH I YEAR COURSE STRUCTURE 2024-25
(Common to CSE, CSE (AI&ML) & CSE (DS))
Semester – I

S. No	Course Code	Course Title	L	T	P	Credits
1	A221001	Mathematics-I (Linear Algebra and Calculus)	3	1	0	4.0
2	A221004	Engineering Chemistry	3	1	0	4.0
3	A221083	Engineering Chemistry Lab	0	0	2	1.0
4	A221202	Basic Electrical Engineering	2	0	0	2.0
5	A221281	Basic Electrical Engineering Lab	0	0	2	1.0
6	A221302	Engineering Graphics & Modelling	1	0	4	3.0
7	A221503	Elements of Computer Science & Engineering	0	0	2	1.0
8	A221502	Programming for Problem Solving	3	0	0	3.0
9	A221582	Programming for Problem Solving Lab	0	0	2	1.0
10		Induction Programme				
		Total	12	2	12	20

Semester – II

S. No	Course Code	Course Title	L	T	P	Credits
1	A222005	Mathematics– II (Ordinary Differential Equations & Vector Calculus)	3	1	0	4.0
2	A222007	Applied Physics	3	1	0	4.0
3	A222085	Applied Physics Lab	0	0	3	1.5
4	A222008	English for Skill Enhancement	2	0	0	2.0
5	A222086	English Language & Communication Skills Lab	0	0	2	1.0
6	A222402	Electronic Devices and Circuits	2	0	0	2.0
7	A222583	Python Programming Lab	0	2	2	3.0
8	A222382	Engineering Work Shop	0	1	3	2.5
		Total	10	5	10	20