

DAYANANDA SAGAR UNIVERSITY
SHAVIGE MALLESHWARA HILLS, KUMARASWAMY LAYOUT
BENGALURU – 560 111, KARNATAKA.

SCHOOL OF ENGINEERING



SCHEME & SYLLABUS
FOR
BACHELOR OF TECHNOLOGY (B.Tech) – I YEAR
COMMON TO ALL BRANCHES
(With effect from 2022-23)

SCHEME – B.TECH – 2022-23 ONWARDS

I SEM – CHEMISTRY CYCLE

SL	PROGRAM CODE	COURSE CODE	COURSE TITLE	CR / AU	SCHEME OF TEACHING					PREREQUISITE	
					L	T	P	S/ P	C	SEM	COURSE CODE
1	101-105 & 121-123	22EN1101	LINEAR ALGEBRA AND DIFFERENTIAL EQUATIONS	CR	3	-	-	-	3	*	***
2	101-105 & 1 121-123	22EN1102	C PROGRAMMING FOR PROBLEM SOLVING	CR	2	-	2	-	3	*	***
3	101-105 & 121-123	22EN1103	ENGINEERING CHEMISTRY	CR	3	-	2	-	4	*	***
4	101-105 & 121-123	22EN1104	ELEMENTS OF MECHANICAL ENGINEERING	CR	2	-	2	-	3	*	***
5	101-105 & 121-123	22EN1105	INTRODUCTION TO ELECTRICAL ENGINEERING	CR	3	-	-	-	3	*	***
6	101-105 & 121-123	22EN1106	BIOLOGY FOR ENGINEERS	CR	3	-	-	-	3	*	***
7	101-105 & 121-123	22EN1107	CONSTITUTION OF INDIA AND PROFESSIONAL ETHICS	CR	1	-	-	-	1	*	***
8	101-105 & 121-123	22EN1108	KANNADA KALI / MANASU	CR	1	-	-	-	1	*	***
					18	-	06	-	21		

CR – Credit, AU – Audit, L – Lecture, T – Tutorial, P – Practical, S/P – Seminar/Project, C – No. of Credits

SCHEME – B.TECH – 2022-23 ONWARDS

I SEM – PHYSICS CYCLE

SL	PROGRAM CODE	COURSE CODE	COURSE TITLE	CR / AU	SCHEME OF TEACHING					PREREQUISITE	
					L	T	P	S/ P	C	SEM	COURSE CODE
1	101-105 & 121-123	22EN1101	LINEAR ALGEBRA AND DIFFERENTIAL EQUATIONS	CR	3	-	-	-	3	*	***
2	101-105 & 121-123	22EN1102	C PROGRAMMING FOR PROBLEM SOLVING	CR	2	-	2	-	3	*	***
3	101-105 & 121-123	22EN1109	ENGINEERING PHYSICS	CR	3	-	2	-	4	*	***
4	101-105 & 121-123	22EN1110	ENGINEERING MECHANICS	CR	3	-	-	-	3	*	***
5	101-105 & 121-123	22EN1111	INTRODUCTION TO ELECTRONICS	CR	3	-	-	-	3	*	***
6	101-105 & 121-123	22EN1112	ENGINEERING GRAPHICS AND DESIGN THINKING	CR	2	-	2	-	3	*	***
7	101-105 & 121-123	22EN1113	ENVIRONMENTAL SCIENCE	CR	1	-	-	-	1	*	***
8	101-105 & 121-123	22EN1114	TECHNICAL ENGLISH	CR	1	-	-	-	1	*	***
					18	-	06	-	21		

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SCHEME – B.TECH – 2022-23 ONWARDS
II SEM – CHEMISTRY CYCLE

SL	PROGRAM CODE	COURSE CODE	COURSE TITLE	CR / AU	SCHEME OF TEACHING					PREREQUISITE	
					L	T	P	S/ P	C	SEM	COURSE CODE
1	101-105 & 121-123	22EN1201	SINGLE AND MULTIVARIATE CALCULUS	CR	3	-	-	-	3	*	***
2	101-105 & 121-123	22EN1202	PYTHON PROGRAMMING FOR PROBLEM SOLVING	CR	2	-	2	-	3	*	***
3	101-105 & 121-123	22EN1103	ENGINEERING CHEMISTRY	CR	3	-	2	-	4	*	***
4	101-105 & 121-123	22EN1104	ELEMENTS OF MECHANICAL ENGINEERING	CR	2	-	2	-	3	*	***
5	101-105 & 121-123	22EN1105	INTRODUCTION TO ELECTRICAL ENGINEERING	CR	3	-	-	-	3	*	***
6	101-105 & 121-123	22EN1106	BIOLOGY FOR ENGINEERS	CR	3	-	-	-	3	*	***
7	101-105 & 121-123	22EN1107	CONSTITUTION OF INDIA AND PROFESSIONAL ETHICS	CR	1	-	-	-	1	*	***
8	101-105 & 121-123	22EN1108	KANNADA KALI / MANASU	CR	1	-	-	-	1	*	***
					18	-	06	-	21		

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SCHEME - B.TECH – 2022-23 ONWARDS
II SEM – PHYSICS CYCLE

SL	PROGRAM CODE	COURSE CODE	COURSE TITLE	CR / AU	SCHEME OF TEACHING					PREREQUISITE	
					L	T	P	S/ P	C	SEM	COURSE CODE
1	101-105 & 121-123	22EN1201	SINGLE AND MULTIVARIATE CALCULUS	CR	3	-	-	-	3	*	***
2	101-105 & 121-123	22EN1202	PYTHON PROGRAMMING FOR PROBLEM SOLVING	CR	2	-	2	-	3	*	***
3	101-105 & 121-123	22EN1109	ENGINEERING PHYSICS	CR	3	-	2	-	4	*	***
4	101-105 & 121-123	22EN1110	ENGINEERING MECHANICS	CR	3	-	-	-	3	*	***
5	101-105 & 121-123	22EN1111	INTRODUCTION TO ELECTRONICS	CR	3	-	-	-	3	*	***
6	101-105 & 121-123	22EN1112	ENGINEERING GRAPHICS AND DESIGN THINKING	CR	2	-	2	-	3	*	***
7	101-105 & 121-123	22EN1113	ENVIRONMENTAL SCIENCE	CR	1	-	-	-	1	*	***
8	101-105 & 121-123	22EN1114	TECHNICAL ENGLISH	CR	1	-	-	-	1	*	***
					18	-	06	-	21		

CR – Credit, AU – Audit, L – Lecture, T – Tutorial, P – Practical, S/P – Seminar/Project, C – No. of Credits

			III SEMESTER										
S. N	Course Type	Course Code	Course Name	Teaching Department	Teaching Hours / Week				Examination				Credits
					Lecture	Tutorial	Practical	Project	Duration in Hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P	J					
1	BSC	22CS2301	Transforms and Numerical Techniques	MAT	3	0	0	0	03	60	40	100	3
2	IPCC	22CS2302	Data Structures	CSE	3	0	2	0	03	60	40	100	4
3	IPCC	22CS2303	Digital Logic Design	ECE	3	0	2	0	03	60	40	100	4
4	PCC	22CS2304	Discrete Mathematics & Graph Theory	CSE	3	0	0	0	03	60	40	100	3
5	PCC	22CS2305	Full Stack Development	CSE	3	0	0	0	03	60	40	100	3
6	AEC	22LSXXXX	Liberal Studies	All Dept.	1	0	0	0	01	50	--	50	1
7	SEC	22CS23XX	Skill Enhancement Course – I	CSE	1	0	2	0	01	100	--	100	2
			Total		17	0	06	0		450	200	650	20

LIBERAL STUDIES LIST - B.TECH PROGRAMME – 2022-23 Batch

Sl. No.	Course Code	Course Title	Offering dept
1	22LS0001	Introduction to Drama	Any department
2	22LS0002	Introduction to Dance	
3	22LS0003	Introduction to Music	
4	22LS0004	Introduction to Photography	
5	22LS0005	Introduction to Japanese language	
6	22LS0006	Law for Engineers	
7	22LS0007	Introduction to Painting	
8	22LS0008	Communication Through Sanskrit	
9	22LS0009	Vedic Mathematics	
10	22LS0010	Fundamentals of Critical Thinking	
11	22LS0011	Introduction to Film Studies	
12	22LS0012	Practicing Yoga & Meditation	
13	22LS0013	Cyber Crimes, Policies & Laws	
14	22LS0014	Holistic Medicine	
15	22LS0015	3 D Modelling using Tinkercad	

Skill Enhancement Course - I	
Course Code	Course Name
22CS2306	Linux Programming & Scripting
22CS2307	MATLAB Programming

IV SEMESTER													
S. N	Course Type	Course Code	Course Name	Teaching Department	Teaching Hours / Week			Examination					Credits
					Lecture	Tutorial	Practical	Project	Duration in Hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P	J					
1	BSC	22CS2401	Probability & Statistics	MAT	3	0	0	0	03	60	40	100	3
2	IPCC	22CS2402	Design and Analysis of Algorithms	CSE	3	0	2	0	03	60	40	100	4
3	IPCC	22CS2403	Database Management System	CSE	3	0	2	0	03	60	40	100	4
4	IPCC	22CS2404	Object Oriented Design and Programming	CSE	3	0	2	0	03	60	40	100	4
5	PCC	22CS2405	Computer Organization and Architecture	CSE	3	0	0	0	03	60	40	100	3
6	AEC	22CS2406	Special Topics	CSE	0	0	0	4	01	100	--	100	2
7	SEC	22CS24XX	Skill Enhancement Course – II	CSE	1	0	2	0	--	100	--	100	2
			Total		16	01	08	0	14	500	200	700	22

Skill Enhancement Course – II	
Course Code	Course Name
22CS2407	IoT Automation
22CS2408	Technical Writing
22CS2409	Open Source Middleware Components