



|| Jai Sri Gurudev ||  
Sri Adichunchanagiri Shikshana Trust (R)  
**SJB Institute of Technology**

BGS Health and Education City, Dr. Vishnuvardhana Road, Kengeri, Bengaluru-560060

Approved by AICTE, New Delhi.



**Autonomous Institution affiliated to Visvesvaraya Technological University, Belagavi**  
Recognized by UGC, New Delhi with 2(f) & 12 (B), Accredited by NAAC with 'A+' grade,  
Certified by ISO 9001 - 2015



## AUTONOMOUS SCHEME (Tentative) UG - BE First Year ME

**SCHEME: 2023**

**SEM: I**

**Date of Revision:**

**23-08-2024**

SL No	Course Type	Course type Series	Course Code	Course Title	Teaching Dept.	QP setting dept	Credits	Teaching Hrs/Week				Examinations					
								L	T	P	O	CIE Marks	SEE			Tot. Marks	
								Lecture	Tutorial	Practical	PBI./ABL / SL/others.		Dur.	Th. Mrks	Lab. Mrks		
<b>PHYSICS CYCLE</b>																	
1	BSC	1	23MAT11D	Advanced Calculus	Maths	Maths	4	3	2	0		50	03	50	-	100	
2	IBSC	1	23PHI12D	Physics of Materials	PHY	PHY	4	2	2	2		50	03	50	-	100	
3	ESC	1	23EET13D	Elements of Electrical Engineering	EEE	EEE	3	3	0	0		50	03	50	-	100	
4	ESC	2	23MET14D	Principles of Mechanical Engineering	ME	ME	3	3	0	0		50	03	50	-	100	
5	IESC	1	23CPI15D	Concepts of C Programming	CSE^	CSE^	4	3	0	2		50	03	50	-	100	
6	HSMC	1	23ENGH01	Professional Skills in English	HSS	HSS	PP/NP	0	1	1		50	-	0	-	50	
7	HSMC	2	23ENVH02	Environmental studies	HSS	HSS	1	1	0	0	@	50	02	50	-	100	
8	NCMC	1	23PDSN01	Skills for Success: An approach to aptitude and soft skills	I.E.	I.E.	PP/NP	0	0	0	2	50	-	0	-	50	
9	AEC	1	23MEAE11	WEB 2.0 (HTML, CSS & JAVASCRIPT)	I.E.	I.E.	1	1	0	0	2	50	02	50	-	100	
<b>SEM-I Total</b>							<b>20</b>	<b>16</b>	<b>5</b>	<b>7</b>	<b>4</b>	<b>450</b>		<b>350</b>	<b>0</b>	<b>800</b>	
<b>CHEMISTRY CYCLE</b>																	
1	BSC	2	23MAT11D	Advanced Calculus	Maths	Maths	4	3	2	0		50	03	50	-	100	
2	IBSC	2	23CHI12D	Applied Chemistry of Engineering materials	CHE	CHE	4	2	2	2		50	03	50	-	100	
3	ESC	3	23ECT13D	Fundamentals of Electronics	ECE	ECE	3	3	0	0		50	03	50	-	100	
4	ESC	4	23CVT14D	Elements of Civil Engineering	CV	CV	3	3	0	0		50	03	50	-	100	
5	IESC	2	23CDI15D	Engineering Visulaization & Digital Drawing	CV/ME	CV/ME	4	3	0	2		50	03	0	50	100	
6	HSMC	3	23SKAH03/ 23BKAH04	Sanskrutika Kannada / Balake Kannada	HSS	HSS	PP/NP	1	0	0		50	-	0	-	50	
7	HSMC	4	23CIPH05	Constitution of India & Professional Ethics	HSS	HSS	1	1	0	0	@	50	02	50	-	100	
8	NCMC	1	23PDSN01	Skills for Success: An approach to aptitude and soft skills	I.E.	I.E.	PP/NP	0	0	0	2	50	-	0	-	50	
9	AEC	1	23MEAE11	WEB 2.0 (HTML, CSS & JAVASCRIPT)	I.E.	I.E.	1	1	0	0	2	50	02	50	-	100	
<b>SEM-I Total</b>							<b>20</b>	<b>17</b>	<b>4</b>	<b>6</b>	<b>4</b>	<b>450</b>		<b>300</b>	<b>50</b>	<b>800</b>	

BSC - Basic Science Course; IBSC - Integrated Basic Science Course; ESC - Engineering Science Course; IESC - Integrated Engineering Science Course; HSMC - Humanities, Social sciences & Management Course; AEC - Ability Enhancement Course. {CSE^ --> CSE Stream} {@ - Compulsory one activity during the semester} {I.E - Industry Expert}



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## AUTONOMOUS SCHEME (Tentative) UG - BE First Year ME

**SCHEME: 2023**

**SEM: II**

**Date of Revision:**

**23-08-2024**

SL No	Course Type	Course type Series	Course Code	Course Title	Teaching Dept.	QP setting dept	Credits	Teaching Hrs/Week				CIE Marks	Examinations			
								L	T	P	O		SEE			Tot. Marks
								Lecture	Tutorial	Practical	PBL/ABL/SL/others.		Dur.	Th. Mrks	Lab. Mrks.	
<b>CHEMISTRY CYCLE</b>																
1	BSC	2	23MAT21D	Differential Equations and Numerical Methods	Maths	Maths	4	3	2	0		50	03	50	-	100
2	IBSC	2	23CHI22D	Applied Chemistry of Engineering materials	CHE	CHE	4	2	2	2		50	03	50	-	100
3	ESC	3	23ECT23D	Fundamentals of Electronics	ECE	ECE	3	3	0	0		50	03	50	-	100
4	ESC	4	23CVT24D	Elements of Civil Engineering	CV	CV	3	3	0	0		50	03	50	-	100
5	IESC	2	23CDI25D	Engineering Visulaization & Digital Drawing	CV/ME	CV/ME	4	3	0	2		50	03	0	50	100
6	HSMC	3	23SKAH03/ 23BKAH04	Samskrutika Kannada / Balake Kannada	HSS	HSS	PP/NP	1	0	0		50	-	0	-	50
7	HSMC	4	23CIPH05	Constitution of India & Professional Ethics	HSS	HSS	1	1	0	0	@	50	02	50	-	100
8	NCMC	2	23PDSN02	Skilful Harmony: Bridging aptitude and soft skills	I.E.	I.E.	PP/NP	0	0	0	2	50	-	0	-	50
9	AEC	2	23MEAE21	Introduction to Python programming	I.E.	I.E.	1	1	0	0	2	50	02	50	-	100
<b>SEM-II Total</b>							<b>20</b>	<b>17</b>	<b>4</b>	<b>6</b>	<b>4</b>	<b>450</b>		<b>300</b>	<b>50</b>	<b>800</b>
<b>PHYSICS CYCLE</b>																
1	BSC	1	23MAT21D	Differential Equations and Numerical Methods	Maths	Maths	4	3	2	0		50	03	50	-	100
2	IBSC	1	23PHI22D	Physics of Materials	PHY	PHY	4	2	2	2		50	03	50	-	100
3	ESC	1	23EET23D	Elements of Electrical Engineering	EEE	EEE	3	3	0	0		50	03	50	-	100
4	ESC	2	23MET24D	Principles of Mechanical Engineering	ME	ME	3	3	0	0		50	03	50	-	100
5	IESC	1	23CPI25D	Concepts of C Programming	CSE^	CSE^	4	3	0	2		50	03	50	-	100
6	HSMC	1	23ENGH01	Professional Skills in English	HSS	HSS	PP/NP	0	1	1		50	-	0	-	50
7	HSMC	2	23ENVH02	Environmental studies	HSS	HSS	1	1	0	0	@	50	02	50	-	100
8	NCMC	2	23PDSN02	Skilful Harmony: Bridging aptitude and soft skills	I.E.	I.E.	PP/NP	0	0	0	2	50	-	0	-	50
9	AEC	2	23MEAE21	Introduction to Python programming	I.E.	I.E.	1	1	0	0	2	50	02	50	-	100
<b>SEM-II Total</b>							<b>20</b>	<b>16</b>	<b>5</b>	<b>7</b>	<b>4</b>	<b>450</b>		<b>350</b>	<b>0</b>	<b>800</b>

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