

**GOVERNMENT COLLEGE OF ENGINEERING, JALGAON**

**Curriculum Structure of First Year Engineering**

Scheme for Semester I (Electrical, E & Tc, and Instrumentation) of B. Tech. with effect from academic year 2022-23

Course Code	Proposed Course Domain	Group	Teaching Scheme*				Evaluation Scheme					Credit	
							Theory			Practical			Total
			L	T	P	Total	MSE	ISA	ESE	ICA	ESE		
SH100AR	Induction Program [Includes Universal Human Values (UHV - I module)]		Mandatory audit course of three weeks duration as per AICTE model curriculum				...	...	...	50	...	50	AU
SH101R	Engineering Mathematics I	BS	3	1	...	4	30	10	60	...	...	100	4
SH152R	Engineering Physics	BS	3	...	...	3	30	10	60	...	...	100	3
ME151R	Engineering Graphics	BE	3	...	...	3	30	10	60	...	...	100	3
ET151R	Basic Electronics and Measurement Techniques	BE	3	...	...	3	30	10	60	...	...	100	3
CO101R	Programming for Problem Solving	BE	3	...	...	3	30	10	60	...	...	100	3
ME152R	Engineering Exploration Workshop	BE	...	...	4	4	...	...	...	50	...	50	2
SH153R	Engineering Physics Lab	BS	...	...	2	2	...	...	...	50	...	50	1
ME153R	Engineering Graphics Lab	BE	...	...	2	2	...	...	...	50	...	50	1
ET152R	Basic Electronics and Measurement Techniques Lab	BE	...	...	2	2	...	...	...	50	...	50	1
CO102R	Programming for Problem Solving Lab	BE	...	...	2	2	...	...	...	50	...	50	1
Total			15	1	12	28	150	50	300	250	...	750	22

\*Students should note that it is mandatory to earn the audit points by participating / performing in co-curricular and extra-curricular activities. Total number of audit points required throughout the B. Tech. program is 8 each for co-curricular and extra-curricular activities.

\* Commencement of first semester of UG engineering program is generally delayed by 4 - 5 weeks as compared with higher semesters due to admission procedure. In addition, as per AICTE directives, there is Induction Program of three weeks at the beginning of first semester. Thus the effective teaching in the first semester may be only for 8 – 9 weeks. Therefore, one hour per week theory / laboratory teaching should be added in the regular load shown in the curriculum structure so that the syllabus can be completed in 8 - 9 weeks available in first semester of UG program.

L : Lecture  
ISA :Internal Sessional Assessment

T: Tutorial  
ESE: End Semester Examination  
P: Practical  
ICA : Internal Continuous Assessment  
MSE: Mid Semester Examination

Note:

1. ESE (TH) duration for ME151U is four hours and that for all other theory courses is three hours.
2. MSE (TH) duration for all theory courses is two hours
3. Group indicates curriculum component . BS- Basic Science, BE-Basic Engineering

**GOVERNMENT COLLEGE OF ENGINEERING, JALGAON**  
**Scheme for Semester II (Electrical, E & Tc, and Instrumentation) of B. Tech. with effect from academic year 2022-23**

Course Code	Proposed Course Domain	Group	Teaching Scheme*				Evaluation Scheme						Credit
							Theory			Practical		Total	
			L	T	P	Total	MSE	ISA	ESE	ICA	ESE		
SH151R	Engineering Mathematics II	BS	3	1	...	4	30	10	60	...	...	100	4
SH102R	Engineering Chemistry	BS	3	...	...	3	30	10	60	...	...	100	3
EE101R	Basics of Electrical Engineering	BE	3	...	...	3	30	10	60	...	...	100	3
CO151R	Python Programming	BE	3	...	...	3	30	10	60	...	...	100	3
SH104R	Communication Skills	HM	1	...	...	1	15	5	30	...	...	50	1
SH105R	Communication Skills Lab	HM	...	...	2	2	...	...	...	50	...	50	1
ME101R	Mechanical Workshop Practices	BE	...	...	4	4	...	...	...	50	...	50	2
SH103R	Engineering Chemistry Lab	BS	...	...	2	2	...	...	...	50	...	50	1
EE102R	Basics of Electrical Engineering Lab	BE	...	...	2	2	...	...	...	50	...	50	1
CO152R	Python Programming Lab	BE	...	...	2	2	...	...	...	50	...	50	1
Total			13	1	12	26	135	45	270	250	0	700	20

**Students should note that it is mandatory to earn the audit points by participating / performing in co-curricular and extra-curricular activities. Total number of audit points required throughout the B. Tech. program is 8 each for co-curricular and extra-curricular activities.**

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**Note:**

**1. ESE (TH) duration for SH104U is two hours and that for all other theory courses is three hours.**

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**GOVERNMENT COLLEGE OF ENGINEERING, JALGAON**  
**Scheme for Semester I (Computer) of B. Tech. with effect from academic year 2022-23**

Course Code	Proposed Course Domain	Group	Teaching Scheme*				Evaluation Scheme					Credit	
							Theory			Practical			Total
			L	T	P	Total	MSE	ISA	ESE	ICA	ESE		
SH100AR	Induction Program [Includes Universal Human Values (UHV - I module)]	Mandatory audit course of three weeks duration as per AICTE model curriculum				...	...	...	50	...	50	AU	
SH101R	Engineering Mathematics I	BS	3	1	...	4	30	10	60	...	...	100	4
SH102R	Engineering Chemistry	BS	3	...	...	3	30	10	60	...	...	100	3
EE101R	Basics of Electrical Engineering	BE	3	...	...	3	30	10	60	...	...	100	3
CO101R	Programming for Problem Solving	BE	3	...	...	3	30	10	60	...	...	100	3
SH104R	Communication Skills	HM	1	...	...	1	15	5	30	...	...	50	1
SH105R	Communication Skills Lab	HM	...	...	2	2	...	...	...	50	...	50	1
ME101R	Mechanical Workshop Practices	BE	...	...	4	4	...	...	...	50	...	50	2
SH103R	Engineering Chemistry Lab	BS	...	...	2	2	...	...	...	50	...	50	1
EE102R	Basics of Electrical Engineering Lab	BE	...	...	2	2	...	...	...	50	...	50	1
CO102R	Programming for Problem Solving Lab	BE	...	...	2	2	...	...	...	50	...	50	1
Total			13	1	12	26	135	45	270	250	0	700	20

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**GOVERNMENT COLLEGE OF ENGINEERING, JALGAON**

**Template for Curriculum Structure of First Year Engineering**

**Scheme for Semester II (Computer) of B. Tech. with effect from academic year 2022-23**

Course Code	Proposed Course Domain	Group	Teaching Scheme*				Evaluation Scheme						Credit
							Theory			Practical		Total	
			L	T	P	Total	MSE	ISA	ESE	ICA	ESE		
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SH152R	Engineering Physics	BS	3	...	...	3	30	10	60	...	...	100	3
ME151R	Engineering Graphics	BE	3	...	...	3	30	10	60	...	...	100	3
ET151R	Basic Electronics and Measurement Techniques	BE	3	...	...	3	30	10	60	...	...	100	3
CO151R	Python Programming	BE	3	...	...	3	30	10	60	...	...	100	3
ME152R	Engineering Exploration Workshop	BE	...	...	4	4	...	...	...	50	...	50	2
SH153R	Engineering Physics Lab	BS	...	...	2	2	...	...	...	50	...	50	1
ME153R	Engineering Graphics Lab	BE	...	...	2	2	...	...	...	50	...	50	1
ET152R	Basic Electronics and Measurement Techniques Lab	BE	...	...	2	2	...	...	...	50	...	50	1
CO152R	Python Programming Lab	BE	...	...	2	2	...	...	...	50	...	50	1
Total			<b>15</b>	<b>1</b>	<b>12</b>	<b>28</b>	<b>150</b>	<b>50</b>	<b>300</b>	<b>250</b>	<b>...</b>	<b>750</b>	<b>22</b>

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**GOVERNMENT COLLEGE OF ENGINEERING, JALGAON**  
**Scheme for Semester I (Civil and Mechanical) of B. Tech. with effect from academic year 2022-23**

Course Code	Proposed Course Domain	Group	Teaching Scheme*				Evaluation Scheme						Credit
							Theory			Practical		Total	
			L	T	P	Total	MSE	ISA	ESE	ICA	ESE		
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SH102R	Engineering Chemistry	BS	3	...	...	3	30	10	60	...	...	100	3
EE101R	Basics of Electrical Engineering	BE	3	...	...	3	30	10	60	...	...	100	3
CO101R	Programming for Problem Solving	BE	3	...	...	3	30	10	60	...	...	100	3
SH104R	Communication Skills	HM	1	...	...	1	15	5	30	...	...	50	1
SH105R	Communication Skills Lab	HM	...	...	2	2	...	...	...	50	...	50	1
ME101R	Mechanical Workshop Practices	BE	...	...	4	4	...	...	...	50	...	50	2
SH103R	Engineering Chemistry Lab	BS	...	...	2	2	...	...	...	50	...	50	1
EE102R	Basics of Electrical Engineering Lab	BE	...	...	2	2	...	...	...	50	...	50	1
CO102R	Programming for Problem Solving Lab	BE	...	...	2	2	...	...	...	50	...	50	1
Total			13	1	12	26	135	45	270	250	0	700	20

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**Scheme for Semester II (Civil and Mechanical) of B. Tech. with effect from academic year 2022-23**

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			L	T	P	Total	MSE	ISA	ESE	ICA	ESE		
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SH152R	Engineering Physics	BS	3	...	...	3	30	10	60	...	...	100	3
ME151R	Engineering Graphics	BE	3	...	...	3	30	10	60	...	...	100	3
ET151R	Basic Electronics and Measurement Techniques	BE	3	...	...	3	30	10	60	...	...	100	3
CE151R	Engineering Mechanics	BE	3	...	...	3	30	10	60	...	...	100	3
ME152R	Engineering Exploration Workshop	BE	...	...	4	4	...	...	...	50	...	50	2
SH153R	Engineering Physics Lab	BS	...	...	2	2	...	...	...	50	...	50	1
ME153R	Engineering Graphics Lab	BE	...	...	2	2	...	...	...	50	...	50	1
ET152R	Basic Electronics and Measurement Techniques Lab	BE	...	...	2	2	...	...	...	50	...	50	1
CE152R	Engineering Mechanics Lab	BE	...	...	2	2	...	...	...	50	...	50	1
Total			<b>15</b>	<b>1</b>	<b>12</b>	<b>28</b>	<b>150</b>	<b>50</b>	<b>300</b>	<b>250</b>	<b>...</b>	<b>750</b>	<b>22</b>

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