

Shree Warana Vibhag Shikshan Mandal's

Tatyasaheb Kore Institute of Engineering And Technology,

Warananagar (An Autonomous Institute)
NBA Accredited Institute

Department of First Year B.Tech

F Y. B. Tech. 2024 - 2025



First Year B. Tech.

Curriculum Structure and Evaluation Scheme





Warananagar, Tal-Panhala, Dist-Kolhapur -416 113. Maharashtra

An Autonomous Institute, Affiliated to Shivaji University, Kolhapur

Vision

To sustain a distinct identity for the institute by providing quality technical and management education, academic flexibility, innovation, and industry relevant skills with professional ethics.

Mission

- To persistently implement flexible curriculum for preparing technocratswith sound skills and professional ethics.
- To strengthen industry-institute interface for effective enhancement ofinternships, employability, and entrepreneurship.
- To facilitate an atmosphere that encourages faculty and students to engage in meaningful academic and research activities.
- To enhance educational opportunities for the rural and weaker sections of the society.
- To inculcate lifelong learning with human values and concern for thesociety and environment.

Quality Policy

To promote excellence in academics and training activities by inspiring students for becoming competent professionals to cater industrial and social needs.

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Abbreviations

Sr. No.	Acronym	Definition
1	ISE	In-Semester Examination
2	ISE-I	In-Semester Examination-I
3	ISE-II	In-Semester Examination-II
4	ESE	End Semester Examination
5	ISA	In-Semester Assessment (Term Work)
6	L	Lecture
7	T	Tutorial
8	P	Practical
9	СН	Contact Hours
10	C	Credit

Course/ Subject Categories

	Course	Subject Categories
Sr. No.	Acronym	Definition
1	AEC	Ability Enhancement Course
2	BSC	Basic Science Course
3	CC	Co-curricular Courses
4	ESC	Engineering Science Course
5	HSSM	Humanities Social Science and Management
6	IKS	Indian Knowledge System
7	MAC	Mandatory Audit Course
8	PCC	Programme Core Course
9	VSEC	Vocational and Skill Enhancement Course

Course/ Subject Code for theory and practical

		Cour	ser subject Code to	meor	y anu prac	licai		
2	4	UG	BSC/ ESC/ AEC/ CC/ HSSM/ IKS/ MAS/ PCC/ VSEC	FY	1	0	1	T/P/A
Cou Introd Ye	luced	Under Graduate	Course Category	First Year	Semester	Cour		T- Term work P- POE A- Audit Course







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First Year B. Tech.

Curriculum Structure and Evaluation Scheme

(Common to all Programs)

To be implemented as per NEP 2020 (Revised) from AY 2024 - 25

INSTRUCTIONS

- There are two groups in each semester:
 - 1) Physics Group and
 - 2) Chemistry Group
- · Allotment of groups to students
 - 1) In Semester-I, 50% of first year B.Tech students will be admitted in Physics group and remaining 50% will be in Chemistry Group.
 - 2) In Semester-II, students admitted in Physics group in semester-I will be transferred to Chemistry Group. The students admitted in Chemistry Group in semester-I will be transferred to Physics Group.
- Eligibility criteria for End Semester Examination
 - 1) As per Rules and Regulations for Examinations and Evaluation System of U.G. and P.G. Programs (5.1.3) A student shall secure a minimum 40% marks in ISE (Theory), ISA (Term work) of a particular course and attendance as per Shivaji University, Kolhapur norms otherwise he/she shall not be eligible for ESE.
- Audit Course:
 - Democracy, Election and Good Governance is non-credit, self-study audit course. A
 separate examination of 50 marks will be conducted at the end of the semester. Student must
 score minimum 40% marks in the examination.







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An Autonomous Institute, Affiliated to Shivaji University, Kolhapur

First Year B. Tech. (Semester - I)

Physics Group

(Common to all Programs)

To be implemented as per NEP 2020 (Revised) from AY 2024 – 25 Curriculum Structure and Evaluation Scheme

Sr. No.	Category	Course Category	Course Code	Course Title		Гeach	ing ar	id Cred ne	lit	Examination and Evaluation Scheme			
					L	T	P	СН	С	Comp onent	Marks	Mini	r
1										ISE	40	16	Jing
- 53	Basic Science	BSC	24UGBSC- FY101	Engineering Physics	3	-		3	3	ESE	60	24	40
2	Course	BSC	24UGBSC-FY102	Engineering Mathematics-I	3	-	-	3	3	ISE ESE	40 60	16 24	40
3		ESC	24UGESC-FY103	Basic Electrical and Electronics Engineering	2	-	-	2	2	ISE ESE	40 60	16 24	40
4	Engineering Science	ESC	24UGESC-FY104	Basic Civil Engineering	2	-	-	2	2	ISE ESE	40 60	16 24	40
5	Course	EGG	AMIGEOG EVIAS	Computer Aided						ISE	40	16	1
		ESC	24UGESC-FY105	Engineering Drawing	2	-	-	2	2	ESE	60	24	40
6	Humanities Social Science and Management	HSSM	24UGHSSM-FY106	Communication Skills	1	-	-	1	1	ISE	50	20	0
7	Dasia Salamaa	BSC	24UGBSC-FY101LP	Engineering Physics Lab	2.5	-	1	2	1	ISA	25	10	0
8	Basic Science Course	BSC	24UGBSC-FY102LT	Engineering Mathematics-I Tut	-	1	-	1	1	ISA	25	10	0
9	Engineering	ESC	24UGESC-FY103LP	Basic Electrical & Electronics Engineering Lab	-	-	1	2	1	ISA	25	10	0
10	Science Course	ESC	24UGESC-FY104LP	Basic Civil Engineering Lab	-	-	1	2	1	ISA	25	10)
11	Course	ESC	24UGESC-FY105LP	Computer Aided Engineering Drawing Lab	-	-	1	2	1	ISA	25	10)
11	Humanities Social Science and Management	HSSM	24UGHSSM- FY106LP	Communication Skills lab	-	-	1	2	1	ISA	25	10)
12	Co-curricular Courses	CC	24UGCC- FY107T	Cyber Security Lab	-	-	1	2	1	ISA	50	20)
13	Vocational and Skill Enhancement Course	VSEC	24UGVSEC-FY108T	Manufacturing Techniques Lab	-		1	2	1	ISA	50	20	
14	Mandatory Audit Course	MAC	24UGMAC- FY109A	Mandatory Audit Course-I Democracy, Elections and Good Governance*		-	-	-	-	2 -	-	-	
			Total		13	1	7	28	21		800		V 12





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First Year B. Tech. (Semester – I)

Chemistry Group

(Common to all Programs)

To be implemented as per NEP 2020 (Revised) from AY 2024 – 25 Curriculum Structure and Evaluation Scheme

Sr. No.	Category	Category Course Code Course Titl						d Cred		Examination and Evaluation Scheme					
	E .					T	P	СН	C	Compo nent	Marks	f	imum or ssing		
1	Basic Science	BSC	24UGBSC- FY110	Engineering Chemistry	3	-	-	3	3	ISE ESE	40 60	16 24	40		
2	Course	BSC	24UGBSC-FY102	Engineering Mathematics-I	3	-	-	3	3	ISE ESE	40 60	16 24	40		
3	Programme Core Course	PCC	24UGPCC-FY111	Computer Programming in C	2	-	-	2	2	ISE ESE	40 60	16 24	40		
4	Engineering	ESC	24UGESC-FY112	Engineering Mechanics	2	-	-	2	2	ISE ESE	40 60	16 24	40		
5	Science Course	ESC	24UGESC-FY113	Basic Mechanical	2	-	-	2	2	ISE ESE	40	16	40		
6	Humanities Social Science	HSSM	24UGHSSM-FY114	Engineering Indian Knowledge System	1	-	-	1	1	ISA	50		20		
7	and Management	HSSM	24UGHSSM-FY106	Communication Skills	1	-	-	1	1	ISE	50	2	20		
8	Basic Science	BSC	24UGBSC- FY110LP	Engineering Chemistry Lab			1	2	1	ISA	25	1	0		
9	Course	BSC	24UGBSC-FY102LT	Engineering Mathematics- I Tutorial	-	1	-	1	1	ISA	25	1	0		
10	Programme Core Course	PCC	24UGPCC-FY111LP	Computer Programming in C Lab	-	-	1	2	1	ISA	25	1	0		
11	Engineering	ESC	24UGESC-FY112LP	Engineering Mechanics Lab	-		1	2	1	ISA	25	1	0		
12	Science Course	ESC	24UGESC-FY113LP	Basic Mechanical Engineering Lab	-	-	1	2	1	ISA	25	1	0		
13	Humanities Social Science and Management	HSSM	24UGHSSM- FY106LP	Communication Skills Lab	-	_	1	2	1	ISA	25	1	0		
14	Co-curricular Courses	CC	24UGCC- FY115T	Inquisitive Learning	-	-	1	2	1	ISA	50	2	0		
15	Mandatory Audit Course	MAC	24UGMAC- FY109A	Mandatory Audit Course-I Democracy, Elections and Good Governance*	-	-	-	-	-	-					
		OF ENGIA	Total		14	1	6	27	21		800	-	-		

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First Year B. Tech. (Semester – II)

Physics Group

(Common to all Programs)

To be implemented as per NEP 2020 (Revised) from AY 2024 – 25 Curriculum Structure and Examination Scheme

Sr .N o	Category	Course Category	Course Code	Course Title	1		ing ar Schei	nd Cred me	lit	Examination and Evaluation Scheme			
					L	T	P	СН	C	Compo nent	Marks	Minis fo Pass	r
1	Basic Science	BSC	24UGBSC- FY101	Engineering Physics	3	-	-	3	3	ISE ESE	40 60	16 24	40
2	Course	BSC	24UGBSC- FY201	Engineering Mathematics-II	3		-	3	3	ISE ESE	40 60	16 24	40
3		ESC	24UGESC-FY103	Basic Electrical and Electronics Engineering	2	-	-	2	2	ISE	40	16	40
4	Engineering Science Course	ESC	24UGESC-FY104	Basic Civil Engineering	2	-	J=:	2	2	ESE ISE ESE	60 40 60	24 16 24	40
5	Course	ESC	24UGESC-FY105	Computer Aided Engineering Drawing	2	-	-	2	2	ISE ESE	40	16	40
6	Humanities Social Science and Management	HSSM	24UGHSSM-FY202	Employability Enhancement Skills	1	-	-	1	1	ISE	50	20)
7	Basic	BSC	24UGBSC- FY101LP	Engineering Physics Lab	-	-	1	2	1	ISA	25	10)
8	Science Course	BSC	24UGBSC-FY201LT	Engineering Mathematics-II Tut	-	1	-	1	1	ISA	25	10	
9		ESC	24UGESC-FY103LP	Basic Electrical & Electronics Engineering Lab	-	-	1	2	1	ISA	25	10)
10	Engineering Science Course	ESC	24UGESC-FY104LP	Basic Civil Engineering Lab	-	-	1	2	1	ISA	25	10)
11	Course	ESC	24UGESC-FY105LP	Computer Aided Engineering Drawing Lab	-	-	1	2	1	ISA	25	10)
12	Humanities Social Science and Management	HSSM	24UGHSSM- FY202LP	Employability Enhancement Skills Lab	-	-	1	2	1	ISA	25	10)
13	Co-curricular Courses	CC	24UGCC-FY107T	Cyber Security Lab	-	-	1	2	1	ISA	50	20)
14	Vocational and Skill Enhancemen t Course	VSEC	24UGVSEC-FY108T	Manufacturing Techniques Lab	-	-	1	2	1	ISA	50	20)
			Total		13	1	7	28	21		800		







Warananagar, Tal-Panhala, Dist-Kolhapur -416 113. Maharashtra

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First Year B. Tech. (Semester – II)

Chemistry Group

(Common to all Programs)

To be implemented as per NEP 2020 (Revised) from AY 2024 – 25 Curriculum Structure and Evaluation Scheme

Sr. No.	Category	Course Category	Course Code	Course Title		edit		ng an eme k)		Examin	nd Evaluation eme		
3 11				5-1	L	Т	P	C H	С	Com pone nt	Mark	Mini fo Pas	r
1	Basic Science Course	BSC	24UGBSC- FY110	Engineering Chemistry	3	-	-	3	3	ISE	40	16	40
					17					ESE	60	24	
2		BSC	24UGBSC- FY201	Engineering Mathematics-II	3	-	-	3	3	ISE	40	16	40
3	Programme Core Course	PCC	24UGPCC-FY111	Computer	_			2	_	ESE ISE	60 40	24 16	40
		FCC	240GFCC-F1111	Programming in C	2	-	-	2	2	ESE	60	24	40
4	Engineering Science	ESC	24UGESC-FY112	Engineering Mechanics	2	-	_	2	2	ISE	40	16	40
	Course				9000					ESE	60	24	
5		ESC	24UGESC-FY113	Basic Mechanical	2	-		2	2	ISE	40	16	40
				Engineering				222		ESE	60	24	
6	Humanities Social Science and	HSSM	24UGHSSM-FY114	Indian Knowledge System	1	-	-	1	1	ISA	50	2	0
7	Management	HSSM	24UGHSSM-FY202	Employability Enhancement Skills	1	-	-	1	1	ISE	50	2)
8	Basic Science Course	BSC	24UGBSC- FY110LP	Engineering Chemistry Lab			1	2	1	ISA	25	1)
9		BSC	24UGBSC- FY201LT	Engineering Mathematics- II Tutorial	-	1	-	1	1	ISA	25	1)
10	Programme Core Course	PCC	24UGPCC-FY111LP	Computer Programming in C Lab	-	-	1	2	1	ISA	25	10)
11	Engineering Science	ESC	24UGESC-FY112LP	Engineering Mechanics Lab	-:	-	1	2	1	ISA	25	10)
12	Course	ESC	24UGESC-FY113LP	Basic Mechanical Engineering Lab	-	-	1	2	1	ISA	25	10)
13	Humanities Social Science and Management	HSSM	24UGHSSM FY202LP	Employability Enhancement Skills Lab	-	-	1	2	1	ISA	25	10)
INEE	Co-curricular Courses	СС	24UGCC-FY115T	Inquisitive Learning	-	-	1	2	1	ISA	50	20)
OTT	विवर दि		Total		14	1	6	27	21		800	_	+ -

Academic Coordinator First Year, B.Tech

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Dean Academics

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F. Y. B. Tech
Tatyasaheb Kore Institute of Engg.
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