

GOVERNMENT COLLEGE OF ENGINEERING, JALGAON

Template for Curriculum Structure of First Year Engineering

Scheme for Semester I of B. Tech. (Civil Engineering with Multidisciplinary Minor) academic year 2023-24

Course Code	Proposed Course Domain	Group	Teaching Scheme*					Evaluation Scheme					Credit
			L	T	P	Total	MSE	ISA	ESE	ICA	ESE	Total	
SH100AN	Induction Program [Includes Universal Human Values (UHV - 1 module)]												50
SH101IN	Engineering Mathematics I	BSC	3	1	...	4	30	10	60	...	...	100	AU
SH152N	Engineering Physics	BSC	3	...	...	3	30	10	60	...	...	100	3
EE101IN	Basic Electrical Engineering	ESC	3	...	...	3	30	10	60	...	...	100	3
CO101IN	Fundamental of Computer Science and Engineering	ESC	3	...	...	3	30	10	60	...	...	100	3
ME101IN	Mechanical Workshop Practices	VSEC	...	4	4	...		...	...			50	2
SH153N	Engineering Physics Lab	BSC	...	...	2	2	...	...	...			50	1
EE102N	Basic Electrical Engineering Lab	ESC	...	...	2	2	...	...	...			50	1
CO102N	Fundamental of Computer Science and Engineering Lab	ESC	...	...	2	2	...	...	...			50	1
IK103N	Essence of Indian Traditional Knowledge	IKS	2	...	...	2	30	10	60	...	...	100	2
LL101IN	LLC INSS and Sports	LCC	...	...	4	4	...	...	...	50	...	50	2
	Total		14	1	14	29	150	50	300	250	...	750	22

Induction Program :
https://www.aicte-india.org/sites/default/files/student_induction.pdf

Cocurricular Course (CC) Liberal Learning Course :
<https://www.coep.org.in/departments/appliedscience/Link3>


Head
 Civil Engineering Department,
 Government College of Engineering,
 Jalgaon 425002

GOVERNMENT COLLEGE OF ENGINEERING, JALGAON

Scheme for Semester II of B.Tech. (Civil Engineering with Multidisciplinary Minor) with effect from academic year 2023-24

Course Code	Proposed Course Domain	Group	Teaching Scheme*				Evaluation Scheme						Credit
			L	T	P	Total	MSE	ISA	ESE	ICA	ESE	Total	
SH151N	Engineering Mathematics II	BSC	3	1	...	4	30	10	60	...	...	100	4
SH102N	Engineering Chemistry	BSC	3	...	...	3	30	10	60	...	...	100	3
ME151N	Engineering Graphics	ESC	3	...	...	3	30	10	60	...	...	100	3
CE151N	Engineering Mechanics	PCC	3	...	...	3	30	10	60	...	...	100	3
ME152N	Engineering Exploration Workshop	VSEC	...	...	4	4	...	...	...	...	50	...	50
SH103N	Engineering Chemistry Lab	BSC	...	...	2	2	...	...	...	...	50	...	50
ME153N	Engineering Graphics Lab	ESC	...	...	2	2	...	...	...	...	50	...	50
CE152N	Engineering Mechanics Lab	PCC	...	...	2	2	...	...	...	...	50	...	50
LL102N	LLC- II Yoga and Nutrition	LCC	...	...	4	4	...	...	...	...	50	...	50
SH100N	Ability Enhancement Course (English) I	AEC	1	...	2	3	50	...	50
	Total		13	1	16	30	120	40	240	300	0	700	22

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Head

Civil Engineering Department
Government College of Engineering
Jalgaon 425002

Students exiting the First Year program after securing minimum 40 credits will be awarded UG Certificate in the relevant Discipline /Subject provided they secure 8 credits in work-based vocational courses or internship / Apprenticeship offered during summer vacation in addition to 4 credits from skill-based courses earned during the first and second semester

GOVERNMENT COLLEGE OF ENGINEERING, JALGAON

Department of Mechanical Engineering

Scheme for Semester I B. Tech. (Mechanical Engineering) with effect from academic year 2023-24 (As per NEP 2020)

Course Code	Proposed Course Domain	Category	Teaching Scheme*			Evaluation Scheme					
			L	T	P	Total	MSE	ISA	ESE	ICA	ESE
SH100AN	Induction Program [Includes Universal Human Values (UHV - I module)]	Mandatory audit course of three weeks duration as per AICTE model curriculum	...	...	...	...	...	...	50	...	50
SH101IN	Engineering Mathematics I	BSC	3	1	...	4	30	10	60	...	...
SH152IN	Engineering Physics	BSC	3	...	...	3	30	10	60	...	...
ME102IN	Basic of Mechanical Engineering	ESC	3	...	...	3	30	10	60	...	...
CO101IN	Fundamental of Computer Science and Engineering	ESC	3	...	...	3	30	10	60	...	...
IK103IN	Essence of Indian Traditional Knowledge	IKS	2	...	...	2	30	10	60	...	...
ME101IN	Mechanical Workshop Practices	VSEC	...	...	4	4	...	...	...	50	...
SH153IN	Engineering Physics Lab	BSC	...	...	2	2	...	...	...	50	...
ME103IN	Basic of Mechanical Engineering Lab	ESC	...	...	2	2	...	...	...	50	...
CO102IN	Fundamental of Computer Science and Engineering Lab	ESC	...	...	2	2	...	...	...	50	...
LL101IN	Liberal Learning Course (NSS and Sports)	LLC	...	...	4	4	...	...	...	50	...
Total			14	1	14	29	150	50	300	300	0
											800
											22

L : Lecture
ISA : Internal Sessional Assessment

P: Practical
ESE: End Semester Examination
ICA : Internal Continuous Assessment


HEAD
Mechanical Engineering Dept.
Govt. College of Engg., Jalgaon

GOVERNMENT COLLEGE OF ENGINEERING, JALGAON

Department of Mechanical Engineering

Scheme for Semester II B. Tech. (Mechanical Engineering) with effect from academic year 2023-24 (As per NEP 2020)

Course Code	Proposed Course Domain	Category	Teaching Scheme*						Evaluation Scheme					
			L	T	P	Total	MSE	ISA	ESE	ICA	ESE	Total	Credit	
SH151N	Engineering Mathematics II	BSC	3	1	...	4	30	10	60	100	4	
SH102N	Engineering Chemistry	BSC	3	3	30	10	60	100	3	
ME151N	Engineering Graphics	ESC	3	3	30	10	60	100	3	
ME155N	Mechanics for Mechanical Engineering	ESC	2	...	2	30	10	60	...	...	100	2
ME152N	Engineering Exploration Workshop	VSEC	...	...	4	4	...	...	50	...	50	2
ME154N	Manufacturing Process	PCC	2	...	2	30	10	60	...	...	100	2
SH103N	Engineering Chemistry Lab	BSC	...	...	2	2	...	...	50	...	50	1
ME153N	Engineering Graphics Lab	ESC	...	...	2	2	...	...	50	...	50	1
SH100N	Ability Enhancement Course-I (English)	AEC-01	1	...	2	3	...	...	50	...	50	2
LL102N	Liberal Learning Course (Yoga and Nutrition)	LLC	...	...	4	4	...	...	50	...	50	2
Total			14	1	14	29	150	50	300	250	0	750	22	

Students exiting the First Year programme after securing minimum **40** credits will be awarded UG Certificate in the relevant Discipline /Subject provided they secure **8** credits in work-based vocational courses or internship / Apprenticeship offered during summer vacation in addition to **4** credits from skill-based courses earned during the first and second semester


HEAD

Mechanical Engineering Dep't.
Govt. College of Engg., Jalgaon

GOVERNMENT COLLEGE OF ENGINEERING, JALGAON

**Template for Curriculum Structure of First Year Engineering
Scheme for Semester I Comp of B. Tech. with effect from academic year 2023-24**

Course Code	Proposed Course Domain	Group	Teaching Scheme*			Evaluation Scheme			Total Credit	
			L	T	P	Total	MSE	ISA	ESE	
SH100AN	Induction Program [Includes Universal Human Values (UHV - I module)]									AU
SH101IN	Engineering Mathematics I	BSC	3	1	...	4	30	10	60	...
SH152N	Engineering Physics	BSC	3	...	...	3	30	10	60	...
EE101IN	Basic Electrical Engineering	ESC	3	...	...	3	30	10	60	...
CO101IN	Fundamental of Computer Science and Engineering	ESC	3	...	...	3	30	10	60	...
ME101IN	Mechanical Workshop Practices	VSEC	...	...	4	4	...	...	...	100
SH153N	Engineering Physics Lab	BSC	...	2	2	...	...	...	50	...
EE102N	Basic Electrical Engineering Lab	ESC	...	2	2	...	...	...	50	...
CO102N	Fundamental of Computer Science and Engineering Lab	ESC	...	2	2	...	...	...	50	...
IK103N	Essence of Indian Traditional Knowledge	IKS	2	...	...	2	30	10	60	...
LL101IN	Liberal Learning Course (NSS & Sports)	LCC	...	...	4	4	...	...	50	...
	Total		14	1	14	29	150	50	300	250
										650
										22

Induction Program :

https://www.aicte-india.org/sites/default/files/student_induction.pdf

<https://www.aicte-india.org/sites/default/files/Detailed%20Guide%20on%20Student%20Induction%20program.pdf>

Cocurricular Course (CC) Liberal Learning Course :

<https://www.coep.org.in/departments/appliedscience/Link3>

Head of Department
Computer Engineering Department
Govt. College of Engineering,
Jalgaon

Bos member Sec.

Head of Department
Computer Engineering Department
Govt. College of Engineering,
Jalgaon

GOVERNMENT COLLEGE OF ENGINEERING, JALGAON

Scheme for Semester-II Computer of B. Tech. with effect from academic year 2023-24

Course Code	Proposed Course Domain	Group	Teaching Scheme*			Evaluation Scheme						Total Credit	
			Theory			Practical			MSE	ISA	ESE		
			L	T	P	Total	MSE	ISA	ESE	ICA	ESE		
SH151N	Engineering Mathematics II	BSC	3	1	...	4	30	10	60	...	...	100
SH102N	Engineering Chemistry	BSC	3	...	...	3	30	10	60	...	...	100
ME151N	Engineering Graphics	ESC	3	...	...	3	30	10	60	...	...	100
CO151N	Programming for Problem Solving	PCC	3	...	...	3	30	10	60	...	...	100
ME152N	Engineering Exploration Workshop	VSEC	...	...	4	4	...	...	...	50	...	100
SH103N	Engineering Chemistry Lab	BSC	...	...	2	2	...	...	...	50	...	50
CO152N	Programming for Problem Solving Lab	PCC	...	...	2	2	...	...	...	50	...	50
ME153N	Engineering Graphics Lab	ESC	...	...	2	2	...	...	...	50	...	50
LL102N	Liberal Learning Course (Yoga and Nutrition)	LCC	...	...	4	4	...	...	...	50	...	50
SH100N	Ability Enhancement Course (English)	AEC	1	...	2	3	...	...	...	50	...	50
Total			13	1	16	30	120	40	240	300	0	700	22

L : Lecture

ISA : Internal Sessional Assessment

T: Tutorial

ESE: End Semester Examination

P: Practical MSE: Mid Semester Examination

ICA : Internal Continuous Assessment

Exit UG Certificate

8 credits in work based vocational courses or internship/apprenticeship offered during summer vacation

Head of Department
Computer Engineering Department
Govt. College of Engineering
Jalgaon

Member SEC
B.Tech. Sessional
Examination
2023-24

**GOVERNMENT COLLEGE OF ENGINEERING, JALGAON
Curriculum Structure B. Tech. (Electrical) (NEP 2020)**

Scheme for Semester I (Electrical) of B. Tech. with effect from academic year 2023-24

Course Code	Proposed Course Domain	Group	Teaching Scheme*			Evaluation Scheme						
			Theory			Practical			Total		Credit	
			MSE	ISA	ESE	ICA	ESE	Total				
SH100AN	Induction Program [Includes Universal Human Values (UHV - 1 module)]		Mandatory audit course of three weeks duration as per AICTE model curriculum			...	...	50	...	50	AU
SH101IN	Engineering Mathematics I	BSC	3	1	...	4	30	10	60	...	100	
SH102IN	Engineering Chemistry	BSC	3	...	...	3	30	10	60	...	100
ME151IN	Engineering Graphics	ESC	3	...	...	3	30	10	60	...	100
CO101IN	Fundamentals of Computer Science and Engineering	ESC	3	...	...	3	30	10	60	...	100
ME152IN	Engineering Exploration Workshop	VSEC	...	...	4	4	...	...	50	...	50
SH103IN	Engineering Chemistry Lab	BSC	...	...	2	2	...	...	50	...	50
ME153IN	Engineering Graphics Lab	ESC	...	...	2	2	...	...	50	...	50
CO102IN	Fundamentals of Computer Science and Engineering Lab	ESC	...	...	2	2	...	...	50	...	50
SH100ON	Ability Enhancement Course (English Language)	AEC	1	...	2	3	...	...	50	...	50
LL102IN	Liberal Learning Course (Yoga & Nutrition)	LLC	...	4	4	...	...	50	...	50	2
Total			13	1	16	30	120	40	240	350	0	750

Induction Program : Page No. _____

https://www.aicte-india.org/sites/default/files/student_induction.pdf

<https://www.aicte-india.org/sites/default/files/Detailed%20Guide%20on%20Student%20Induction%20Program.pdf>

Cocurricular Course (CC) Liberal Learning Course :
<http://humanities.sjsu.edu/department-of-humanities-and-science/link3>

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

M. S. Rao
Member Secretary
BOS (Technical)

丁

Chairman
BOS (Electrical)

GOVERNMENT COLLEGE OF ENGINEERING, JALGAON
Scheme for Semester II (Electrical) of B. Tech. with effect from academic year 2023-24

Course Code	Proposed Course Domain	Group	Teaching Scheme*			Evaluation Scheme					
			L	T	P	Total	MSE	ISA	ESE	ICA	ESE
SH151N	Engineering Mathematics II	BSC	3	1	...	4	30	10	60	...	...
SH152N	Engineering Physics	BSC	3	...	...	3	30	10	60	...	...
EE101N	Basic Electrical Engineering	PCC	3	...	...	3	30	10	60	...	...
CO151N	Programming for Problem Solving	ESC	3	...	...	3	30	10	60	...	...
ME101N	Mechanical Workshop Practices	VSEC	...	4	4	...	...	...	50	...	50
SH153N	Engineering Physics Lab	BSC	...	2	2	...	...	...	50	...	50
EE102N	Basic Electrical Engineering Lab	PCC	...	2	2	...	...	...	50	...	50
CO102N	Programming for Problem Solving Lab	ESC	...	...	2	2	...	...	50	...	50
LL101N	Liberal Learning Course (NSS & Sports)	LLC	...	4	4	...	...	...	50	...	50
IK103N	Essence of Indian Traditional Knowledge	IKS	2	...	...	2	30	10	60	...	...
Total			14	1	14	29	150	50	300	250	0
Exit UG Certificate	8 credits in work based Vocational Courses or Internship/apprenticeship offered during summer Vacation										

Departmental Minor Course List for ME/ET/CO/CE/IN and Exit Course

List for EE

1 Electrical Machines-I	OR	2 Power System- I
Electrical Machines-I Lab		Analog Electronics Lab

Wazid

Member Secretary
BOSS (Electrical)

Af.

Chairman
BOSS (Electrical)

Date : 03.01.2024
 Time : 10:00 AM

GOVERNMENT COLLEGE OF ENGINEERING, JALGAON
 Department of Electronics and Telecommunication Engineering
 Scheme for Semester I B. Tech. (Electronics and Telecommunication Engineering) with effect from academic year 2023-24 (As per NEP 2020)

Course Code	Name of the Course	Component as per NEP	Teaching Scheme			Evaluation Scheme				Credit
			L	T	P	Total	MSE	ISA	ESE	
SH100AN	Induction Program [Includes Mandatory Audit Course as per AICTE Universal Human Values (UHV - I module)]					...	...	...	50	...
SH101N	Engineering Mathematics I	BSC	3	1	...	4	30	10	60	...
SH102N	Engineering Chemistry	BSC	3	...	...	3	30	10	60	...
ME151N	Engineering Graphics	ESC	3	...	...	3	30	10	60	...
CO101N	Fundamentals of Computer Science and Engineering	ESC	3	...	...	3	30	10	60	...
ME152N	Engineering Exploration Workshop	VSEC (Skill)	...	...	4	4	...	...	...	50
SH103N	Engineering Chemistry Lab	BSC	...	2	2	...	...	...	50	...
ME153N	Engineering Graphics Lab	ESC	...	2	2	...	...	...	50	...
CO102N	Fundamentals of Computer Science and Engineering Lab	ESC	...	2	2	...	...	...	50	...
LL102N	Liberal Learning Course (Yoga and Nutrition)	LLC	...	4	4	...	...	...	50	...
SH100N	Ability Enhancement Course (English)	AEC (HSSM)	1	...	2	3	...	...	50	...
	Total		13	1	16	30	120	40	240	350
									750	22

L : Lecture T: Tutorial P: Practical
 ISA : Internal Sessional Assessment ESE: End Semester Examination
 MSE: Mid Semester Examination
 ICA : Internal Continuous Assessment

Sekhukhuni
 Dr. S.C. Kulkarni
 Member Secretary
 - Bos (EE&TC)

Eshan

Dr. S.P. Mohan
 # Chairperson, Bos - E&TC

GOVERNMENT COLLEGE OF ENGINEERING, JALGAON

Department of Electronics and Telecommunication Engineering
Scheme for Semester II B. Tech. (Electronics and Telecommunication Engineering) with effect from academic year 2023-24 (As per NEP 2020)

Course Code	Name of the Course	Component as per NEP	Teaching Scheme			Evaluation Scheme					
			L	T	P	Total	MSE	ISA	ESE	ICA	ESE
SH151N	Engineering Mathematics II	BSC	3	1	...	4	30	10	60	...	...
SH152N	Engineering Physics	BSC	3	...	...	3	30	10	60	...	...
ET151N	Basic Electronics Engineering	PCC	3	...	...	3	30	10	60	...	...
CO151N	Programming for Problem Solving	ESC	3	...	...	3	30	10	60	...	...
ME101N	Mechanical Workshop Practices	VSEC (Skill)	...	...	4	4	...	...	50	...	50
CO152N	Programming for Problem Solving Lab	ESC	...	...	2	2	...	...	50	...	50
IK103N	Essence of Indian Traditional Knowledge	HSSM (IKS)	2	...	...	2	30	10	60	...	...
SH153N	Engineering Physics Lab	BSC	...	...	2	2	...	...	50	...	50
ET152N	Basic Electronics Engineering lab	PCC	...	...	2	2	...	...	50	...	50
LL101N	Liberal Learning Course (NSS and Sports)	LLC	...	...	4	4	...	...	50	...	50
		Total	14	1	14	29	150	50	300	250	...
											750
											22

L : Lecture T: Tutorial P: Practical
 ISA : Internal Sessional Assessment ESE: End Semester Examination

MSE: Mid Semester Examination
 ICA : Internal Continuous Assessment

Exit Option for UG Certificate: 8 credits in work based Vocational Courses or Internship/apprenticeship offered during summer Vacation (As per exit policy approved by Board of Studies (Electronics and Telecommunication Engineering) in its meeting held on 06 July, 2023.)

Sekulam
 Dr. S.C. Kulkarni
 member Secretary
 - Bos (E & TC)

Ehsan
 (SPM)
 Chairperson Bos E&TC

GOVERNMENT COLLEGE OF ENGINEERING, JALGAON

Department of Electronics and Telecommunication Engineering
Scheme for Semester II B. Tech. (Electronics and Telecommunication Engineering) with effect from academic year 2023-24 (As per NEP 2020)

Course Code	Name of the Course	Component as per NEP	Teaching Scheme			Evaluation Scheme						Credit
			L	T	P	Total	MSE	ISA	ESE	ICA	ESE	
SH151N	Engineering Mathematics II	BSC	3	1	...	4	30	10	60	...	...	100
SH152N	Engineering Physics	BSC	3	...	...	3	30	10	60	...	...	100
ET151N	Basic Electronics Engineering	PCC	3	...	...	3	30	10	60	...	...	100
CO151N	Programming for Problem Solving	ESC	3	...	...	3	30	10	60	...	...	100
ME101N	Mechanical Workshop Practices	VSEC (Skill)	...	...	4	4	...	...	50	...	50	2
CO152N	Programming for Problem Solving Lab	ESC	...	...	2	2	...	...	50	...	50	1
IK103N	Essence of Indian Traditional Knowledge	HSSM (IKS)	2	...	...	2	30	10	60	...	...	100
SH153N	Engineering Physics Lab	BSC	...	...	2	2	...	...	50	...	50	1
ET152N	Basic Electronics Engineering lab	PCC	...	...	2	2	...	...	50	...	50	1
LL101N	Liberal Learning Course (NSS and Sports)	LLC	...	...	4	4	...	...	50	...	50	2
		Total	14	1	14	29	150	50	300	250	...	750
												22

L : Lecture T: Tutorial P: Practical
 ISA : Internal Sessional Assessment ESE: End Semester Examination
 MSE: Mid Semester Examination ICA : Internal Continuous Assessment

Exit Option for UG Certificate: 8 credits in work based Vocational Courses or Internship/apprenticeship offered during summer Vacation (As per exit policy approved by Board of Studies (Electronics and Telecommunication Engineering) in its meeting held on 06 July, 2023.)

Sekulam
 Dr. S.C. Kulkarni
 member Secretary
 - Bos (E & TC)

Eshan
 (SPM)
 Chairman Bos ETC

शुक्र, ०६ नोव्हेंबर २०२३-२०२४

गोपनीय विषय
वास्तविकी कलाशन, जालगांव

GOVERNMENT COLLEGE OF ENGINEERING, JALGAON
 Department of Instrumentation Engineering

Scheme for Semester I B. Tech. (Instrumentation Engineering) with effect from academic year 2023-24 (As per NEP 2020)

Course Code	Name of the Course	Component as per NEP	Teaching Scheme			Evaluation Scheme			Credit			
			L	T	P	Total	MSE	ISA	Theory	Practical	Total	
SH100AN	Induction Program		Mandatory Audit Course as per AICTE			...	...	...	50	...	50	AU
	Universal Human Values (UHV - I module)											
SH101N	Engineering Mathematics I	BSC	3	1	...	4	30	10	60	...	100	4
SH102N	Engineering Chemistry	BSC	3	...	...	3	30	10	60	...	100	3
ME151N	Engineering Graphics	ESC	3	...	...	3	30	10	60	...	100	3
CO101N	Fundamentals of Computer Science and Engineering	ESC	3	...	...	3	30	10	60	...	100	3
ME152N	Engineering Exploration Workshop	VSEC (Skill)	...	...	4	4	...	...	...	50	...	50
SH103N	Engineering Chemistry Lab	BSC	...	...	2	2	...	...	...	50	...	50
ME153N	Engineering Graphics Lab	ESC	...	...	2	2	...	...	...	50	...	50
CO102N	Fundamentals of Computer Science and Engineering Lab	ESC	...	...	2	2*	...	...	...	50	...	50
LL102N	Liberal Learning Course (Yoga and Nutrition)	LLC	...	...	4	4	...	...	...	50	...	50
SH100N	Ability Enhancement Course (English)	AEC (HSSM)	1	...	2	3	...	...	...	50	...	50
			Total	13	1	16	30	120	40	240	300	700
												22

L : Lecture T: Tutorial P: Practical
 ISA : Internal Sessional Assessment ESE: End Semester Examination

MSE: Mid Semester Examination
 ICA : Internal Continuous Assessment

(Dr. G. S. Patwarkar)
 Dr. G. S. Patwarkar
 Chairman
 BOS

(Dr. S. S. Neokar)
 Dr. S. S. Neokar
 Member Secretary
 BOS, Instrumentation

(Dr. R. N. Patwarkar)
 Dr. R. N. Patwarkar
 Vice Principal
 गोपनीय विषय
 वास्तविकी कलाशन, जालगांव

GOVERNMENT COLLEGE OF ENGINEERING, JALGAON

Department of Instrumentation Engineering

Scheme for Semester II B. Tech. (Instrumentation Engineering) with effect from academic year 2023-24 (As per NEP 2020)

Course Code	Name of the Course	Component as per NEP	Teaching Scheme						Evaluation Scheme						Credit		
			L			P			MSE			ISA			Practical		
			L	T	P	Total	MSE	ISA	ESE	ISA	ESE	ISA	ESE	ISA	ESE	Total	
SHI15IN	Engineering Mathematics II	BSC	3	1	...	4	30	10	60	...	...	...	...	...	...	4
SHI152N	Engineering Physics	BSC	3	...	...	3	30	10	60	...	...	...	...	...	...	3
EE101IN	Basic Electrical Engineering	PCC	3	...	...	3	30	10	60	...	...	...	...	...	...	3
CO151IN	Programming for Problem Solving	ESC	3	...	...	3	30	10	60	...	...	...	...	...	...	3
ME101IN	Mechanical Workshop Practices	VSEC (Skill)	...	...	4	4	...	...	...	...	50	...	50	...	...	2
CO102N	Programming for Problem Solving Lab	ESC	...	...	2	2	...	...	...	...	50	...	50	...	...	1
IK103N	Essence of Indian Traditional Knowledge	HSSM (IKS)	2	...	...	2	30	10	60	...	...	...	...	...	...	2
SH153N	Engineering Physics Lab	BSC	...	...	2	2	...	...	...	...	50	...	50	...	...	1
EE102N	Basic Electrical Engineering lab	PCC	...	...	2	2	...	...	...	...	50	...	50	...	...	1
LL101IN	Liberal Learning Course (NSS and Sports)	LLC	...	...	4	4	...	...	...	...	50	...	50	...	...	2
Total			14	1	29	150	50	300	250	...	750	...	750	...	22		

L : Lecture IISA : Internal Sessional Assessment

**T: Tutorial P: Practical
ESE: End Semester Examination**

MSE: Mid Semester Examination
ICA : Internal Continuous Assessment

1

Dr. S. S. Nestkar / Chairman
Member Secretary
BOS, Instrumentation.
विद्यालय परिषद् / उच्चतम संस्कृत विद्यालय
उच्चतम संस्कृत विद्यालय की अधिकारी विभाग, एकात्मक.

Dr. S.S. Nekkanti
Member Secretary
BOS, Instruments