

HSNC University

Program Structure for First Year Engineering

(NEP 2020 With Effect from Academic Year 2026-2027)

Semester I

Course Code	Course Description	Teaching Scheme (Contact Hours)			Credit Assigned			
		Theory	Practical	Tutorial	Theory	Practical	Tutorial	Total Credits
BSC101	Applied Mathematics -I	2	--	--	2	--	--	2
BSC102	Applied Physics-I	2	--	--	2	--	--	2
BSC103	Applied Chemistry-I	2	--	--	2	--	--	2
ESC101	Engineering Mechanics	2	--	--	2	--	--	2
ESC102	Basic Electrical & Electronics Engineering	3	--	--	3	--	--	3
BSL101	Applied Physics Lab	--	1	--	--	0.5	--	0.5
BSL102	Applied Chemistry Lab	--	1	--	--	0.5	--	0.5
ESL101	Engineering Mechanics Lab	--	2	--	--	1	--	1
ESL102	Basic Electrical & Electronics Engineering Lab	--	2	--	--	1	--	1
AEC101	Professional Communication Skills	--	2	2	--	1	2	3
VSEC101	Engineering Workshop-I	--	2	--	--	1	--	1
VSEC102	Object Oriented Programming in C++	2	--	--	2	--	--	2
VSEL101	Object Oriented Programming in C++ Lab	--	2	--	--	1	--	1
CC101	Induction cum Universal Human Values	2#	-	--	2	--	--	2
Total		15	12	02	15	06	02	23

Course evaluation is activity-based which may be an individual or group of four students.

Theory / Tutorial 1 credit for 1 hour and Practical 1 credit for 2 hours

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Semester I Examination Scheme

Course Code	Course Description	Examination scheme							
		Internal Assessment Test (IAT)			End Sem. Exam Marks	End Sem. Exam Duration (Hrs)	Term Work (Tw)	Oral & Pract.	Total
		IAT-I	IAT-II	Total (IAT-I) + IAT-II)					
BSC101	Applied Mathematics -I	20	20	40	60	02	--	--	100
BSC102	Applied Physics-I	15	15	30	45	1.5	--	--	75
BSC103	Applied Chemistry-I	15	15	30	45	1.5	--	--	75
ESC101	Engineering Mechanics	20	20	40	60	02	--	--	100
ESC102	Basic Electrical & Electronics Engineering	20	20	40	60	02	--	--	100
BSL101	Applied Physics Lab	--	--	--	--	--	25	--	25
BSL102	Applied Chemistry Lab	--	--	--	--	--	25	--	25
ESL101	Engineering Mechanics Lab	--	--	--	--	--	25	25	50
ESL102	Basic Electrical & Electronics Engineering Lab	--	--	--	--	--	25	25	50
AEC101	Professional Communication Skills	--	--	--	--	--	50	25	75
VSEC101	Engineering Workshop-I	--	--	--	--	--	25	--	25
VSEC102	Object Oriented Programming in C++	20	20	40	60	02	--	--	100
VSEL101	Object Oriented Programming in C++ Lab	--	--	--	--	--	25	25	50
CC101	Induction cum Universal Human Values	--	--	--	--	--	-	--	-
Total		110	110	220	330	11	200	100	850

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Semester II

Course Code	Course Description	Teaching Scheme (Contact Hours)			Credit Assigned			
		Theory	Practical	Tutorial	Theory	Practical	Tutorial	Total Credits
BSC201	Applied Mathematics – II	2	-	-	2	-	--	2
BSC202	Applied Physics-II	2	-	-	2	-	--	2
BSC203	Applied Chemistry-II	2	-	-	2	-	--	2
ESC201	Engineering Graphics	3	-	-	3	-	--	3
PCC201	Core Course: Statistical Techniques in Research	2	-	-	2	-	--	2
BSL201	Applied Physics-II Lab	-	1	-	-	0.5	--	0.5
BSL202	Applied Chemistry-II Lab	-	1	-	-	0.5	--	0.5
ESL201	Engineering Graphics Lab	-	2	--	-	1	--	1
PCL201	Core Lab: Statistical Techniques in Research Lab	-	2	-	-	1	--	1
AEC201	Professional Communication & Digital Ethics	--	2	2	--	1	2	3
IKS201	Indian knowledge System	-	2	-	-	1	--	1
VSEC201	Engineering Workshop-II	-	2	-	-	1	--	1
VSEC202	Java Programming	2	-	-	2	-	--	2
VSEL201	Java Programming Lab	-	2	-	-	1	--	1
Total		13	14	02	13	07	02	22

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Semester II Examination Scheme

Course Code	Course Description	Examination scheme							
		Internal Assessment Test (IAT)			End Sem. Exam Marks	End Sem. Exam Duration (Hrs)	Term Work (Tw)	Oral & Pract	Total
		IAT-I	IAT-II	Total (IAT-I) + IAT-II)					
BSC201	Applied Mathematics – II	20	20	40	60	02	--	--	100
BSC202	Applied Physics-II	15	15	30	45	1.5	--	--	75
BSC203	Applied Chemistry-II	15	15	30	45	1.5	--	--	75
ESC201	Engineering Graphics	20	20	40	60	02	--	--	100
PCC201	Program Core Course: Statistical Techniques in Research	20	20	40	60	02	--	--	100
BSL201	Applied Physics-II Lab	--	--	--	--	--	25	--	25
BSL202	Applied Chemistry-II Lab	--	--	--	--	--	25	--	25
ESL201	Engineering Graphics Lab	--	--	--	--	--	25	25	50
PCL201	Program Core Course Lab: Statistical Techniques in Research Lab	--	--	--	--	--	25	25	50
AEC201	Professional Communication & Digital Ethics	--	--	--	--	--	50	25	75
IKS201	Indian knowledge System	--	--	--	--	--	25	--	25
VSEC201	Engineering Workshop-II	--	--	--	--	--	25	--	25
VSEC202	Java Programming	20	20	40	60	02	--	--	100
VSEL201	Java Programming Lab	--	--	--	--	--	25	25	50
Total		110	110	220	330	11	225	100	875