

FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY

(An Autonomous Institution)



**B. Tech
Stream-B**

Electronics and Communication Engineering

Curriculum-2026

**Hormis Nagar, Mookkannoor, Angamaly
Kerala - 683 577**

Curriculum Structure – Stream B

Electrical Sciences

- **Electronics and Communication Engineering (ECE)**
- **Electronics and Instrumentation Engineering (EIE)**
- **Electrical and Electronics Engineering(EEE)**

1. Course Category

The curriculum is designed to provide a balanced and comprehensive learning experience. The courses are categorized as follows:

1. **Program Core Subjects (PCC)** – Fundamental courses essential to Electrical Sciences and System Design.
2. **Project-Based Learning (PBL)** – Hands-on learning through projects for system development.
3. **Program Elective Courses (PEC)** – Program Specialized courses chosen by students based on interest.
4. **Open Elective/Industry Elective Courses (OEC/IEC)** – Courses from other engineering disciplines or industry-relevant courses.
5. **Humanities and Social Sciences including Management Courses (HMC)** – Ethics, Communication, and Managerial Skills Development.
6. **Humanities and Social Sciences including Management Elective Courses (HME)** - Specialized courses chosen by students based on interest in Ethics, Communication, and Managerial Skills Development.
7. **Basic Science Courses (BSC)** – Foundational Mathematics, Physics and Chemistry courses.
8. **Engineering Science Courses (ESC)** – Courses applying engineering principles in practice.
9. **Program Core Laboratory Courses(PCL)** - Fundamental Laboratory courses essential to Electrical Sciences and System Design.
10. **Skill Enhancement Courses (SEC)** – Technical and Professional skill enhancement courses.
11. **Seminar (SMR)** – Research based discussions and presentations.
12. **Project (PRJ)** – Capstone projects integrating knowledge in Electrical Sciences.
13. **Value added Course (VAC)** - Additional courses enhancing domain expertise, including **Minor** (interdisciplinary subjects from other departments) and **Honors** (advanced courses within the student's specialization).
14. **Internship Courses(INC/INM)** - Industry/ R&D organizations oriented experiential learning.

2. Curriculum Design and Structure

- **Separate Curriculum Tables for First & Second Semesters:**
 - The first and second semesters have individual tabular representations.
 - 50% of students can opt for **Engineering Physics/ Engineering Chemistry in Semester 1** and **Universal Human Values and Constitution of India/ Life Skills and Professional Ethics, Health & Wellness in Semester 2**, and vice versa.
- **Unified Curriculum Table for Higher Semesters:**
 - From the third to eighth semester, a common tabular format is used for Stream B while retaining discipline-specific subjects.
- **10-Day Induction Program:**
 - Introduces students to academic expectations, ethics, and foundational skill-building.

3. Abbreviations Used

- **L** – Lecture Hours
- **T** – Tutorial Hours
- **P** – Practical/Laboratory Hours
- **R** – Research/Project-Based Learning
- **CIA** – Continuous Internal Assessment
- **ESE** – End Semester Examination

4. Self Study Hour Calculation:

$$SS=1.5L+0.5T+0.5P+R$$

Self-Study (SS) hours represent the estimated time a student is expected to spend outside regular contact hours for effective learning, preparation, and reinforcement of course content. These hours are calculated based on the instructional components of the course to ensure adequate academic engagement and attainment of Course Outcomes.

FIRST SEMESTER- Stream B													
10 Days Compulsory Induction Program													
Sl. No	Slot	Course Code	Course Category	Course Title (Course Name)	Credit Structure				SS	Total Marks		Credits	Hrs. /Week
					L	T	P	R		CIA	ESE		
1	A	26NBCBS101	BSC	Linear Algebra, Differential Calculus and Laplace Transforms	2	1	0	0	3.5	40	60	3	3
2	B S1/S2	26NBNBS102	BSC	Engineering Physics - B									
		26ABNBS103		Engineering Chemistry - AB	2	0	2	0	4	40	60	3	4
3	C	26ABMES101	ESC	Engineering Graphics and Computer Aided Drawing.	2	0	2	0	4	40	60	3	4
4	D	26ABNES102	ESC	Introduction to Electrical & Electronics Engineering (Part1:Electrical Engineering)	2	0	0	0	3	20	30	4	4
				(Part2:Electronics Engineering)	2	0	0	0	3	20	30		
5	E	26ABCES103	ESC	Algorithmic Thinking with Python	2	0	2	0	4	40	60	4	4
6	F	26ABMEL101	ESC	Basic Electrical and Electronics Engineering Workshop	0	0	2	0	1	50	50	2	2
7	G S1/S2	26ABCHM101	HMC	Life Skills, Ethics & Wellness	1	0	1	0	2*	40	60	1	2
		26ABCHM102		Universal Human Values and Constitution of India	2	0	0	0	3*	40	60		
8	S	26NENSE10Q	SEC	Skill Enhancement Course								1	2
Total									24.5/ 25.5			21	25

SECOND SEMESTER- Stream B													
Sl. No	Slot	Course Code	Course Category	Course Title (Course Name)	Credit Structure				SS	Total Marks		Credits	Hrs./ Week
					L	T	P	R		CIA	ESE		
1	A	26NBCBS201	BSC	Integral Calculus and Fourier Series	2	1	0	0	3.5	40	60	3	3
2	B S1/ S2	26NBNBS102	BSC	Engineering Physics - B	2	0	2	0	4	40	60	3	4
		26ABNBS103		Engineering Chemistry - AB									
3	C	26ABNES201	ESC	Introduction to Computing Systems and Web Design	2	0	2	0	4	40	60	4	4
4	D	26ABNES202	ESC	Programming in C	2	1	0	0	3.5	40	60	3	4
5	E	26NENPC201	PCC	Network Theory	2	1	0	0	3.5	40	60	3	3
6	F	26ABCHM201	HMC	Professional Communication	1	0	1	0	2	40	60	2	2
7	G S1/ S2	26ABCHM101	HMC	Life Skills, Ethics & Wellness	1	0	1	0	2*	40	60	1	2
		26ABCHM102		Universal Human Values and Constitution of India	2	0	0	0	3*	40	60		
8	H	26ABNEL201	ESC	C Programming Lab	0	0	2	0	1	50	50	2	2
9	S	26NENSE20Q	SEC	Skill Enhancement Course								1	2
Total									23.5/ 24.5			22	26

THIRD SEMESTER- Stream B													
Sl. No	Slot	Course Code	Course Category	Course Title (Course Name)	Credit Structure				SS	Total Marks		Credits	Hrs./ Week
					L	T	P	R		CIA	ESE		
1	A	26NBCBS301	BSC	Calculus Of Complex Functions and Fourier Transforms	2	1	0	0	3.5	40	60	3	3
2	B	26NENPC301	PCC	Solid State Devices	2	1	0	0	3.5	40	60	3	3
3	C	26NENPC302	PCC	Analog Circuits	2	1	0	0	3.5	40	60	3	3
4	D	26NENPB301	PBL	Logic Circuit Design	3	0	0	1	5.5	60	40	4	4
5	E	26NBCES301	ESC	Introduction to Artificial Intelligence and Data Science	3	0	0	0	4.5	40	60	3	3
6	F S3/S4	26ABCES302	ESC	Disaster Management and Sustainable Development	2	0	0	0	3	40	60	2	2
		26ABCES303		Design Thinking and Product Development									
7	G	26NENLC301	PCL	Analog Circuits Lab	0	0	3	0	1.5	50	50	2	3
8	H	26NENLC302	PCL	Logic Circuit Design Lab	0	0	3	0	1.5	50	50	2	3
9	M	26NENVM301	VAC	MINOR	3	0	0	0	4.5	40	60	4*	3*
REMEDIAL													
10	S	26NENSE30Q	SEC	Skill Enhancement Course								1	2
Total									26.5/31*			23/27*	26/29*

- ❖ Starting from the third semester, students may choose to enroll in Minor courses. Each department will offer one Minor Basket, consisting of four carefully curated subjects designed for students from other disciplines to gain interdisciplinary knowledge and skills.
- ❖ Students who do not opt for either Minor or Honour courses shall be offered remedial classes or enrichment activities, as decided by the department based on the student's learning needs to strengthen foundational knowledge and improve academic performance.

FOURTH SEMESTER- Stream B													
Sl. No	Slot	Course Code	Course Category	Course Title (Course Name)	Credit Structure				SS	Total Marks		Credits	Hrs./ Week
					L	T	P	R		CIA	ESE		
1	A	26NBNBS401	BSC	Probability Distributions, Random Process and Numerical Methods	2	1	0	0	3.5	40	60	3	3
2	B	26NENPC401	PCC	Signals and Systems	2	1	0	0	3.5	40	60	3	3
3	C	26NENPC402	PCC	Linear Integrated Circuits	2	1	0	0	3.5	40	60	3	3
4	D	26NENPC403	PCC	Nanoscale VLSI Devices and Circuits	2	1	0	0	3.5	40	60	3	3
5	E	26NENPB401	PBL	Computer Architecture and Microcontrollers	3	0	0	1	5.5	60	40	4	4
6	F S3/S4	26ABCES302	ESC	Disaster Management and Sustainable Development	2	0	0	0	3	40	60	2	2
		26ABCES303		Design Thinking and Product Development									
7	G	26NENLC401	PCL	Linear Integrated Circuits Lab	0	0	3	0	1.5	50	50	2	3
8	H	26NENLC402	PCL	Microcontrollers and Embedded Systems Lab	0	0	3	0	1.5	50	50	2	3
9	M	26NENVM401	VAC	MINOR	3	0	0	0	4.5	40	60	4*	3*
	U	26NENVH4Q1		HONORS	3	0	0	0	4.5	40	60	4*	3*
	REMEDIAL												
10	S	26NENSE40Q	SEC	Skill Enhancement Course								1	2
Total									25.5/ 34.5*			23/31*	26/32*

Note:

- ❖ Disaster Management and Sustainable Development and Design Thinking and Product Development shall be offered in both Semester 3 (S3) and Semester 4 (S4). Half of the branches in the institution will be offered Disaster Management and Sustainable Development in S3 and Design Thinking and Product Development in S4, while the remaining branches will follow the reverse sequence.
- ❖ After completing the fourth or fifth semester, during the semester break, every student shall undergo a mandatory internship of a minimum duration of ten days with industry, NGOs, government organizations, or micro, small, and medium enterprises (MSMEs) to gain practical and industry-oriented exposure. The internship committee shall coordinate and monitor all internship activities with members from the department and sister departments.
- ❖ Starting from the fourth semester, students may opt to enrol in Honors courses. Three distinct Honors course baskets will be offered, from which a student may choose one basket to pursue. Each Honors basket consists of four carefully curated subjects aimed at providing advanced knowledge and skills in the respective discipline.
- ❖ Students are not permitted to switch between baskets in different semesters. It is mandatory that once a basket has been chosen in the fourth semester, the subsequent higher level courses included in the same basket must be undertaken in the following semesters.

FIFTH SEMESTER- Stream B														
Sl. No	Slot	Course Code	Course Category	Course Title (Course Name)	Credit Structure				SS	Total Marks		Credits	Hrs./ Week	
					L	T	P	R		CIA	ESE			
1	A	26NENPC501	PCC	Electromagnetic Theory and Applications	2	1	0	0	3.5	40	60	3	3	
2	B	26NENPC502	PCC	Analog and Digital Communication	2	1	0	0	3.5	40	60	3	3	
3	C	26NENPC503	PCC	Control Systems	2	1	0	0	3.5	40	60	3	3	
4	D	26NENPB501	PBL	Digital Signal Processing	3	0	0	1	5.5	60	40	4	4	
5	E	26NENPE51Q	PEC	PEC-1	3	0	0	0	4.5	40	60	3	3	
6	F S5/S6	26ABCHM501	HMC	Engineering Entrepreneurship & IPR	2	0	0	0	3	40	60	3	2	
		26ABCHM502		Economics For Engineers										
7	G	26NENLC501	PCL	Communication Lab I	0	0	3	0	1.5	50	50	2	3	
8	H	26NENLC502	PCL	DSP Lab	0	0	3	0	1.5	50	50	2	3	
9	M	26NENVM501	VAC	MINOR	3	0	0	0	4.5	40	60	4*	3*	
	U	26NENVH5Q1		HONORS	3	0	0	0	4.5	40	60	4*	3*	
	REMEDIAL													
10	S	26NENSE50Q	SEC	Skill Enhancement Course								1	2	
	S5/ S6	Industrial Visit(Maximum 5 Days are permitted, Not Exceeding more than 3 Working Days)												
Total									26.5/ 35.5 *			24/32*	26/32*	

Program Elective Courses (PEC-1)			
Sl. No:	Course Code	Name of the Subject	Prerequisites(If Any)
1	26NENPE511	Data Analytics and Visualization using Python	Algorithmic Thinking with Python
2	26NENPE512	ARM architecture, Programming and Interfacing	Computer Architecture and Microcontrollers
3	26NENPE513	Digital System Design	Logic Circuit Design
4	26NENPE514	Data Communication and Computer Networks	Introduction to Computing Systems and Web Design
5	26NENPE515	Data Structures using C++	Programming in C
6	26NENPE516	Power Electronics	Analog Circuits
7	26NENPE517	Fundamentals of Electronics Manufacturing & PCB Technology	Analog Circuits

SIXTH SEMESTER- Steam B													
Sl. No	Slot	Course Code	Course Category	Course Title (Course Name)	Credit Structure				SS	Total Marks		Credits	Hrs/ Week
					L	T	P	R		CIA	ESE		
1	A	26NENPC601	PCC	Advanced Communication Theory	2	1	0	0	3.5	40	60	3	3
2	B	26NENPC602	PCC	Information Theory and Coding	2	1	0	0	3.5	40	60	3	3
3	C	26NENPC603	PCC	Microwaves and Antennas	2	1	0	0	3.5	40	60	3	3
4	D	26NENPB601	PBL	VLSI Circuit Design	3	0	0	1	5.5	60	40	4	4
5	E	26NENPE62Q	PEC	PEC-2	3	0	0	0	4.5	40	60	3	3
6	F S5/S6	26ABCHM501	HMC	Engineering Entrepreneurship & IPR	2	0	0	0	3	40	60	3	2
		26ABCHM502		Economics For Engineers									
7	G	26NENLC601	PCL	Communication Lab II	0	0	3	0	1.5	50	50	2	3
8	H	26NENPR601	PRJ	Mini Project	0	0	3	0	1.5	50	50	2	3
9	M	26NENVM601	VAC	MINOR	3	0	0	0	4.5	40	60	3*	3*
	U	26NENVH6Q1		HONORS	3	0	0	0	4.5	40	60	4*	3*
	REMEDIAL												
10	S	26NENSE60Q	SEC	Skill Enhancement Course								1	2
	S5/S6	Industrial Visit (Maximum 5 Days are permitted, Not Exceeding more than 3 Working Days)											
11		26ABCIN601	INM	Mandatory Internship - Evaluation by a Committee							1		
Total									26.5/ 35.5			25/32*	26/32*

Note:

- ❖ *Engineering Entrepreneurship & IPR and Engineering Economics shall be offered in both Semester 5 (S5) and Semester 6 (S6). Half of the branches in the institution shall be offered Engineering Entrepreneurship & IPR in S5 and Engineering Economics in S6, while the remaining branches shall be offered Engineering Economics in S5 and Engineering Entrepreneurship & IPR in S6..*

Program Elective Courses (PEC-2)			
Sl. No:	Course Code	Name of the Subject	Prerequisites(If Any)
1	26NENPE621	Machine Learning	Data Analytics and Visualization using Python
2	26NENPE622	Sensors and Actuators	Introduction to Electrical & Electronics Engineering
3	26NENPE623	High Speed Digital Design	Digital System Design
4	26NENPE624	Cryptography and Network Security	Data Communication and Computer Networks
5	26NENPE625	Digital Image Processing and Applications	Digital Signal Processing
6	26NENPE626	Infotainment System Design	Computer Architecture and Microcontrollers
7	26NENPE627	Design for Manufacturing & High-Speed PCB Engineering	Fundamentals of Electronics Manufacturing & PCB Technology

SEVENTH SEMESTER- Stream B													
Sl. No	Slot	Course Code	Course Category	Course Title (Course Name)	Credit Structure				SS	Total Marks		Credits	Hrs/ Week
					L	T	P	R		CIA	ESE		
1	A	26NENPE73Q	PEC	PEC-3 (Internship Students: Self Study/MOOC Approved by the college/Online Classes)	3	0	0	0	4.5	40	60	3	3
2	B	26NENPE74Q	PEC	PEC-4 (Internship Students: Self Study/MOOC Approved by the college/Online Classes)	3	0	0	0	4.5	40	60	3	3
3	C	26NENOE71Q/ 26NENIE71Q	OEC/ IEC	OEC-1/IEC-1 (Internship Students: Self Study/MOOC Approved by the college /Online Classes)	3	0	0	0	4.5	40	60	3	3
4	D	26ABCHE71Q	HME	HME-1 (Internship Students: Self Study/MOOC Approved by the college/Online Classes)	2	0	0	0	3	40	60	1	2
5	S	26NENSM701	SMR	Seminar	0	0	3	0	1.5	50	0	2	3
6	P	26NENPR701/ 26NENIN701	PRJ/INC	Major Project Phase-I/Internship	0	0	0	8	8	100	0	4	8
7	U	26NENVH7Q1	VAC	HONORS	3	0	0	0	4.5	40	60	3*	3*
	REMEDIAL												
8	S	26NENSE70Q	SEC	Skill Enhancement Course								1	2
Total									26/ 30.5			17/20*	24/27*

Note:

❖ No Grade Points will be awarded for the D slot courses

- ❖ *Open Electives are courses offered by departments other than the student's own, allowing interdisciplinary learning and broader knowledge acquisition.*
- ❖ *Students who opt for an internship must present a seminar before a committee, which will assess their performance.*

HME - 1		
Sl. No:	Course Code	Name of the Subject
1	26ABCHE711	Organizational Behavior and Business Communication
2	26ABCHE712	Introduction to Indian Languages and Culture(MOOC)
3	26ABCHE713	Proficiency course in French.(B1 level/MOOC)
4	26ABCHE714	Proficiency Course in German(B1 Level/MOOC)
5	26ABCHE715	Proficiency Course in Spanish(B1 Level/MOOC)
6	26ABCHE716	Introduction to Japanese Language and Culture(N5 level/MOOC)

Program Elective Courses (PEC-3)			
Sl. No:	Course Code	Name of the Subject	Prerequisites(If Any)
1	26NENPE731	Deep Learning	Machine Learning
2	26NENPE732	Wireless Sensor Networks	Sensors and Actuators
3	26NENPE733	Application Specific Integrated Circuits	VLSI Circuit Design
4	26NENPE734	Advanced Satellite & Radar Engineering	Advanced Communication Theory
5	26NENPE735	Intelligent Sensor Networks and IoT Systems	Data Communication and Computer Networks
6	26NENPE736	Instrumentation	Introduction to Electrical & Electronics Engineering
7	26NENPE737	Semiconductor Packaging & Advanced Assembly Technologies	Design for Manufacturing & High Speed PCB Engineering

Program Elective Courses (PEC-4)			
Sl. No:	Course Code	Name of the Subject	Prerequisites(If Any)
1	26NENPE741	Intelligent Natural Language Processing Systems	Machine Learning
2	26NENPE742	Real Time Operating System	Computer Architecture and Microcontrollers
3	26NENPE743	Low Power VLSI	VLSI Circuit Design
4	26NENPE744	RF Engineering	Microwaves and Antennas
5	26NENPE745	Information Security in Cloud Computing	Data Communication and Computer Networks
6	26NENPE746	Renewable Energy Systems	Introduction to Electrical & Electronics Engineering
7	26NENPE747	Quality, Reliability Engineering & Six Sigma in Electronics	Design for Manufacturing & High Speed PCB Engineering

OEC -1 Courses			
Sl. No:	Course Code	Name of the Subject	Prerequisites(If Any)
1	26NENOE711	Entertainment Electronics	Introduction to Electrical & Electronics Engineering
2	26NENOE712	Computer Networks	Introduction to Electrical & Electronics Engineering
3	26NENOE713	Biomedical Engineering	Introduction to Electrical & Electronics Engineering
4	26NENOE714	Optical Communication	Introduction to Electrical & Electronics Engineering
5	26NENOE715	Introduction to Embedded Systems	Introduction to Electrical & Electronics Engineering

IEC-1 Courses			
Sl. No:	Course Code	Name of the Subject	Prerequisites(If Any)
1	26NENIE711	Smart Electronics Manufacturing, Automation & Industry 4.0	Quality, Reliability Engineering & Six Sigma in Electronics

EIGHTH SEMESTER- Stream B													
Sl. No	Slot	Course Code	Course Category	Course Title (Course Name)	Credit Structure				SS	Total Marks		Credits	Hrs/ Week
					L	T	P	R		CI A	ESE		
1	A	26NENPE85Q	PEC	PEC-5 (Internship Students: Self Study/MOOC Approved by the College/Online Classes)	3	0	0	0	4.5	40	60	3	3
2	B	26NENOE82Q / 26NENIE82Q	OEC/ IEC	OEC-2/IEC-2 (Internship Students: Self Study/MOOC Approved by the College/Online Classes)	3	0	0	0	4.5	40	60	3	3
3	C	26ABCHE71Q	HME	HME-1 (Internship Students: Self Study/MOOC Approved by the College/Online Classes)	2	0	0	0	3	40	60	1	2
4	P	26NENPR801/ 26NENPJ801/ 26NENIN801	PRJ/INC	Major Project-II/ Major Project/Internship	0	0	0	8	8	100	0	6	8
Total									20			13	16

Program Elective Courses (PEC-5)			
Sl. No:	Course Code	Name of the Subject	Prerequisites(If Any)
1	26NENPE851	Intelligent Systems Using Large Language Models and Prompt Engineering	Machine Learning
2	26NENPE852	Internet of Things: Architecture and Applications.	Computer Architecture and Microcontrollers
3	26NENPE853	VLSI Testing	VLSI Circuit Design
4	26NENPE854	Microwave Devices and Circuits	Microwaves and Antennas
5	26NENPE855	Database Systems for Embedded and IoT Applications	Data Structures/Programming in C
6	26NENPE856	Photonic Communication Systems	Analog and Digital Communication
7	26NENPE857	Biomedical Instrumentation	Introduction to Electrical & Electronics Engineering

OEC-2 Courses			
Sl. No:	Course Code	Name of the Subject	Prerequisites(If Any)
1	26NENOE821	Internet of Things	Introduction to Electrical & Electronics Engineering
2	26NENOE822	Satellite and Radar Communication	Introduction to Electrical & Electronics Engineering
3	26NENOE823	Robotics and Automation	Introduction to Electrical & Electronics Engineering
4	26NENOE824	Secure Communication	Introduction to Electrical & Electronics Engineering
5	26NENOE825	Introduction to Image Processing	Introduction to Electrical & Electronics Engineering

IEC-2 Courses			
Sl. No:	Course Code	Name of the Subject	Prerequisites(If Any)
1	26NENIE82Q	Advanced Manufacturing and Testing Automation, Robotics & Analytics	Smart Electronics Manufacturing, Automation & Industry 4.0

Minor Courses

Minor Courses (VAC)- Basket 1			
Sl. No:	Course Code	Name of the Subject	Prerequisites(If Any)
1	26NENVM301	Electronic Circuits and Linear ICs	Introduction to Electrical & Electronics Engineering
2	26NENVM401	Fundamentals of Microcontrollers and Applications	Digital Electronics/ Introduction to Electrical & Electronics Engineering
3	26NENVM501	Principles of Communication System	Introduction to Electrical & Electronics Engineering
4	26NENVM601	Discrete Signals and Signal Processing	Integral calculus

Honor Courses

Honors Courses (VAC)- Basket-1			
Sl. No:	Course Code	Name of the Subject	Prerequisites(If Any)
1	26NENVH411	Linear Algebra for Communication	Linear Algebra, Differential Calculus and Laplace Transforms
2	26NENVH511	Multimedia Communication	Introduction to Electrical & Electronics Engineering
3	26NENVH611	Detection and Estimation Theory	Signals and Systems
4	26NENVH711	Advanced Wireless Communication	Analog and Digital Communication

Honors Courses (VAC)- Basket-2			
Sl. No:	Course Code	Name of the Subject	Prerequisites(If Any)
1	26NENVH421	Random Signal Processing	Probability Distributions, Random Process and Numerical Methods
2	26NENVH521	DSP Architectures	Signals and Systems
3	26NENVH621	Advanced Digital Signal Processing	Digital Signal Processing
4	26NENVH721	Speech and Audio Processing	Digital Signal Processing

Honors Courses (VAC) - Basket-3			
Sl. No:	Course Code	Name of the Subject	Prerequisites(If Any)
1	26NENVH431	FPGA Based System Design	Logic Circuit Design
2	26NENVH531	Verification with System Verilog	Logic Circuit Design
3	26NENVH631	VLSI Physical Design	Logic Circuit Design
4	26NENVH731	System On Chip Design	Logic Circuit Design

Credit Distribution Overview

The credit allocation across S1-S8 semesters is structured based on different course types, as detailed below.

Semester	BSC	ESC	HMC/ HME	SEC	PCC+ PCL	PBL	PEC	OEC/IE C	SMR+ PRJ/INC	INM	Total Credits Semester wise
S1	6	13	1	1	-	-	-	-	-	-	21
S2	6	9	3	1	3	-	-	-	-	-	22
S3	3	5	-	1	10	4	-	-	-	-	23
S4	3	2	-	1	13	4	-	-	-	-	23
S5	-	-	3	1	13	4	3	-	-	-	24
S6	-	-	3	1	11	4	3	-	2	1	25
S7	-	-	1	1	-	-	6	3	6	-	17
S8	-	-	1	-	-	-	3	3	6	-	13
Total-Type wise /Semester wise	18	29	12	7	50	16	15	6	14	1	168
Additional Credits											
Minor Courses	Minor courses are offered from the third to the sixth semester. (4+4+4+3=15 Credits)										15
Honor Courses	Honors courses are offered from the fourth to the seventh semester. (4+4+4+3=15 Credits)										15
Activity Points Credits	NSS, NCC, NSO (National Sports Organization) /Arts/Sports/Games/Union/Club Activities - 50 Points										1
	English Proficiency Certification (TOFEL, IELTS, BEC etc) /Aptitude Proficiency Certification (GRE, CAT, GMAT etc)/Valid Gate Score/Conferences/Paper Presentation/ Workshop Activities/ Professional Body Activities/Journal Publication, Patents, Start-Up/Skilling Certificates (Approved by the College) - 50 Points										1
TOTAL CREDITS- 200											

***75 Points/group for B. Tech Lateral Entry Students**

***A minimum of 100 Activity points are to be acquired for obtaining the 2 Activity Credits required in the curriculum.**

Dr. Jacob Thomas V
Principal
FISAT

Dr. Archana R
Member Secretary
FISAT