

**TABLE 1.1: QUALIFYING DEGREES OF 4-SEMESTER DAY PROGRAMMES UNDER FET (WITH GATE/GPAT)**

Srl No	Department	Programme with Specialisation, if Any	Qualifying Degree
1.	Architecture	Architecture	Bachelor Degree in Architecture or equivalent
2.	Mechanical Engineering	Automobile Engineering	B.E. or B.Tech. in Mechanical Engineering / Automobile Engineering or Equivalent
3.	Chemical Engineering	Bioprocess Engineering	B.E. or B.Tech. in Bio-Technology / Chemical Engineering / Food Technology & Biochemical Engineering
4.	Chemical Engineering	Chemical Engineering	B.E. or B.Tech. in Chemical Engineering
5.	Civil Engineering	Civil Engineering with specialisation of	B.E. or B.Tech. in Civil Engineering / Construction Engineering
6.		<ul style="list-style-type: none"> <li>Structural Engineering</li> </ul>	
7.		<ul style="list-style-type: none"> <li>Soil Mechanics &amp; Foundation Engineering</li> </ul>	
7.		<ul style="list-style-type: none"> <li>Environmental Engineering</li> </ul>	B.E. or B.Tech. in Chemical Engineering / Civil Engineering / Construction Engineering / Environmental Engineering / Food Technology & Biochemical Engg
8.	Computer Science & Engineering	Computer Science & Engineering	B.E. or B.Tech. in Computer Science & Engineering
9.	Electrical Engineering	Control System Engineering	B.E. or B.Tech. in Aeronautical Engineering / Electrical Engineering / Electronics & Telecommunication Engineering / Instrumentation Engineering / Mechanical Engineering / or their equivalent.
10.	Electrical Engineering	Electrical Engineering with specialisation of	B.E. or B.Tech. in Electrical Engineering / Power Engineering
11.		<ul style="list-style-type: none"> <li>Electrical Power Systems</li> </ul>	
12.		<ul style="list-style-type: none"> <li>Electrical Machines</li> </ul>	
13.		<ul style="list-style-type: none"> <li>High Voltage Engineering</li> </ul>	
14.		<ul style="list-style-type: none"> <li>Control Systems</li> </ul>	
14.		<ul style="list-style-type: none"> <li>Electrical Measurement &amp; Instrumentation</li> </ul>	B.E. or B.Tech. in Electrical Engineering / Electronics & Telecommunication Engineering / Instrumentation Engineering / Power Engineering
15.	Electronics & Tele-Communication Engineering	Electronics & Tele-Communication Engineering with specialisation of	B.E. or B.Tech. in Electronics & Telecommunication. Engineering / Instrumentation Engineering or equivalent
16.		<ul style="list-style-type: none"> <li>Computer Engineering</li> </ul>	
17.		<ul style="list-style-type: none"> <li>Control Engineering</li> </ul>	
18.		<ul style="list-style-type: none"> <li>Electron Devices</li> </ul>	
19.		<ul style="list-style-type: none"> <li>Microwave Engineering</li> </ul>	
19.		<ul style="list-style-type: none"> <li>Communication Engineering</li> </ul>	B.E. or B.Tech. in Electronics & Telecommunication. Engineering

Srl No	Department	Programme with Specialisation, if Any	Qualifying Degree
20.	Food Technology & Bio-Chemical Engineering	Food Technology & Bio-Chemical Engineering	B.E. or B.Tech. in Biochemical Engineering / Bioprocess Engineering / Chemical Engineering / Food Engineering / Food Technology / Food Technology & Biochemical Engineering / Food Processing Technology
21.	Electrical Engineering	Illumination Engineering	B.E. or B.Tech. in Electrical Engineering / Electronics & Telecommunication Engineering / Instrumentation Engineering / or equivalent
22.	Instrumentation & Electronics Engineering	Instrumentation & Electronics Engineering	B.E. or B.Tech. in Electrical Engineering / Electrical & Electronics Engineering / Electronics & Communication Engineering / Instrumentation & Electronics Engineering / or Equivalent
23.	Metallurgical & Material Engineering	Material Engineering	B.E. or B.Tech. in Ceramic Technology or Engineering / Chemical Engineering / Material Engineering / Mechanical Engineering / Metallurgical Engineering / Production Engineering Or M.Sc.in Physics / Chemistry / Material Science
24.	Mechanical Engineering	Mechanical Engineering with specialisation of	
		<ul style="list-style-type: none"> <li>Heat Power</li> </ul>	B.E. or B.Tech. in Aerospace (Aeronautical) Engineering / Chemical Engineering / Mechanical Engineering / Power Engineering
25.		<ul style="list-style-type: none"> <li>Machine Design</li> </ul>	B.E. or B.Tech. in Aerospace Engineering / Aerospace (Aeronautical) Engineering / Applied Mechanics / Automobile Engineering / Civil Engineering / Mechanical Engineering / Metallurgical Engineering / Power Engineering / Production Engineering
26.		<ul style="list-style-type: none"> <li>Applied Mechanics</li> </ul>	B.E. or B.Tech. in Aerospace (Aeronautical) Engineering / Chemical Engineering / Civil Engineering / Electrical Engineering / Mechanical Engineering / Production Engineering.
27.		<ul style="list-style-type: none"> <li>Production</li> </ul>	B.E. or B.Tech. in Mechanical Engineering / Production Engineering
28.		<ul style="list-style-type: none"> <li>Fluid Mechanics &amp; Hydraulics Engineering</li> </ul>	B.E. or B.Tech. in Aerospace (Aeronautical) Engineering / Chemical Engineering / Civil Engineering / Mechanical Engineering / Power Engineering

Srl No	Department	Programme with Specialisation, if Any	Qualifying Degree
29.	Metallurgical & Material Engineering	Metallurgical Engineering	B.E. or B.Tech. in Ceramic Technology or Engineering / Chemical Engineering / Material Engineering / Mechanical Engineering / Metallurgical Engineering / Production Engineering
30.	Pharmaceutical Technology	Pharmacy with specialisation of <ul style="list-style-type: none"> <li>• Pharmaceutical Chemistry</li> <li>• Pharmaceutics</li> <li>• Pharmacology</li> <li>• Pharmaceutical Biotechnology</li> <li>• Pharmacognosy</li> <li>• Industrial Pharmacy</li> </ul> [to be allotted after admission by the Department]	Bachelor Degree in Pharmacy
31.	Power Engineering.	Power Engineering.	B.E. or B.Tech. in Electrical Engineering / Instrumentation Engineering / Mechanical Engineering / Power Engineering AND GATE Qualified in Mechanical (ME) / Electrical (EE) / Instrumentation (IN) / Engineering or Engineering Science (XE)
32.	Production Engineering	Production Engineering with specialisation of	B.E. or B.Tech. in Industrial Engineering & Management / Manufacturing Science / Mechanical Engineering / Production Engineering
		Production Technology	
33.		Production Management	B.E. or B.Tech. in Any Branch
34.	Information Technology	Software Engineering	B.E. or B.Tech. in any Branch Or Masters of Computer Application (MCA) AND GATE Qualified in Computer Science & IT / Electronics

**TABLE 1.2: QUALIFYING DEGREES OF NON-GATE / NON-GPAT PROGRAMMES UNDER FET**

Srl No	Department	Programme with Specialisation, if Any	Qualifying Degree
<b>4-SEMESTER (DAY) PROGRAMMES</b>			
35.	Printing Engineering	Printing Engineering & Graphic Communication	B.E. or B.Tech in any Branch
<b>6-SEMESTER (EVENING) PROGRAMMES</b>			
36.	Computer Science & Engineering	Computer Technology	B.E. or B.Tech in any Branch
37.	Construction Engineering	Construction Engineering	B.E. or B.Tech in Civil Engineering / Construction Engineering / or equivalent

Srl No	Department	Programme with Specialisation, if Any	Qualifying Degree
38.	Electronics & Tele-Communication Engineering	VLSI Design & Micro Electronics.	B.E. or B.Tech in Computer Science & Engineering / Electronics & Tele-communication Engineering / Instrumentation Engineering / or equivalent

**TABLE 1.3: QUALIFYING DEGREES OF 4-SEMESTER DAY PROGRAMMES OFFERED BY FISLM AND AFFILIATED TO FET (WITH GATE)**

Srl No	School	Programme with Specialisation, if Any	Qualifying Degree
39.	Bio-Science & Engineering	Biomedical Engineering	B.E./B. Tech. in Biomedical Engineering / Biotechnology / Electronics & Telecommunication Engineering / Electronics and Communication Engineering / Applied Electronics and Instrumentation Engineering / Electronics Engineering / Electrical Engineering / Instrumentation Engineering / Mechanical Engineering / Computer Science & Engineering / Pharmaceutical Technology / Material Science & Engineering / Electronics & Instrumentation Engineering / Electrical & Electronics Engineering / Bioengineering / Pharmaceutical & Fine Chemical or Bachelor of Pharmacy (with Basic Engg. subjects) Or MSc in Physics / Chemistry / Zoology / Biochemistry / Microbiology / Pharmacy / Biotechnology / Biomedical / Instrumentation / Electronics / Bio-Physics
40.	Mobile Computing & Communication	Distributed & Mobile Computing	B.E. or B.Tech. in Computer Science & Engineering / Electronics & Tele-Communication Engineering / Information Technology OR Masters of Computer Application (MCA) OR M.Sc. in Electronics Science / Computer Science

Srl No	School	Programme with Specialisation, if Any	Qualifying Degree
41.	Energy Studies	Energy Science & Technology	B.E. or B.Tech. in any Branch OR M.Sc. in Applied Mathematics with Physics and Chemistry at the Bachelor Degree level / Biochemistry / Chemistry / Physics / Geology with Mathematics at the Bachelor Degree level
42.	Education Technology	IT (Courseware Engineering)	B.E. or B.Tech. in any Branch OR Masters of Computer Application (MCA) OR M.Sc. in Computer Science / Electronics / Information Technology / Mathematics / Physics
43.	Materials Science & Nano-Technology	Nano Science & Technology	B.E. or B.Tech. in Ceramic Engineering / Chemical Engineering / Civil Engineering / Electrical Engineering / Electronics Engineering / Mechanical Engineering / Metallurgical Engineering / Nanotechnology / Power Engineering / Printing Engineering or Technology / Production Engineering OR M.Sc. in Chemistry / Electronics / Instrumentation Science / Physics
44.	Nuclear Engineering	Nuclear Studies and Applications	B.E. or B.Tech. in Chemical Engineering / Electrical Engineering / Electronics Engineering / Instrumentation Engineering / Mechanical Engineering / Metallurgy & Material Science / Power Engineering / or its equivalent
45.	Water Resources Engineering	Water Resources & Hydraulic Engineering	B.E. or B.Tech. in Agriculture Engineering / Chemical Engineering / Civil Engineering / Construction Engineering or Technology / Electrical Engineering / Mechanical Engineering / Power Engineering / Production Engineering Or M.Sc.(Tech.) in Geology

**TABLE 1.4: QUALIFYING DEGREES OF NON-GATE PROGRAMMES OFFERED BY FISLM AND AFFILIATED TO FET**

Srl No	School	Programme with Specialisation, if Any	Qualifying Degree
<b>4-SEMESTER (DAY PROGRAMMES)</b>			
46.	Environmental Studies	Environmental Biotechnology	B.E. or B.Tech. in Biotechnology / Civil Engineering / Chemical Engineering / Food Technology & Biochemical Engineering OR Bachelor in Pharmacy OR M.Sc. (2 years) with Mathematics at the Bachelor Degree level in Biotechnology / Chemistry / Environmental Science / Geology / Mathematics / Physics
47.	Laser Science & Engineering	Laser Technology	B.E. or B.Tech. in Automotive Engineering / Chemical Engineering / Electrical Engineering / Electronics Engineering or Technology / Material Engineering / Mechanical Engineering / Metallurgical Engineering / Power Engineering / Production Engineering OR M.Sc. in Computer Science & Engineering / Electronics / Industrial Engineering / Nanoscience / Optoelectronics / Physics / or other equivalent discipline
48.	Education Technology	Multimedia Development	B.E. or B.Tech in any Branch or equivalent OR Masters of Computer Application (MCA) OR M.Sc. in any Branch with knowledge of Computer Programming
<b>6-SEMESTER (EVENING) PROGRAMMES</b>			
49.	Illumination Science, Engineering & Design	Illumination Technology & Design	B.E. or B.Tech. in Biomedical Engineering / Electrical Engineering / Electronics & Telecommunication Engineering / Instrumentation Engineering OR Bachelor Degree in Architecture or Equivalent
50.	Water Resources Engineering	Water Resources & Hydraulic Engineering	In-service Engineers with same Qualifying Degree as 4-Semester Day Programme