

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA**

**PG Courses offered with eligibility Criteria for the Academic year 2019-20**

**Note:** There may be some changes in the specializations offered by the University for the current academic year i.e. 2019-20. The changes if any will be updated in due course.

Disp No	Name of the Discipline	Specialization (Code)	Eligibility		
			Qualifying Degree	GATE/ GPAT Exam	PGECE T Exam
1	M.Tech Civil Engineering	Transportation Engineering	B.E./B.Tech./AMIE in Civil Engg./ Construction Engg. (or)equivalent / Civil and Environmental Engg.	CE	CE
		Structural Engineering			
		Infrastructure Engineering and Management			
		Soil Mechanics and Foundation Engineering			
		Environmental Engineering			
		Structural Design			
		Highway Engineering			
		Computer Aided Structural Analysis Design			
2	M.Tech Electrical & Electronics Engineering	Power Systems	B.E./B.Tech./AMIE in Electrical & Electronics Engg. (or) equivalent / Electrical Engineering	EE	EE
		Power Electronics			
		Power & Industrial Drives			
		Power Electronics& Electrical Drives			
		Power Systems with Emphasis on H.V. Engg/ H.V.Engg.			
		Power Electronics and Drives			
		Power System Control and Automation			
		Power System Engineering			
		Power Electronics and Power Systems			
		Power System and Control			
		Power Electronics and Systems			
		Electrical Machines and Drives			
		Advanced Power Systems			
		Electrical Power Engineering			
		Power System Engineering			
		Electrical Power Systems			
Power Electronics and Control					
Advanced Electrical Power Systems					

3	M.Tech (Control Engg.)	Control Systems	B.E./B.Tech./AMIE in EEE / ECE/EIE / E.Cont.E / Electronics and Computer Engineering/ Instrumentation Engineering / Instru.Tech / Electronics Engg./ Bio-Medical Engineering or Equivalent / Electrical Engineering / Electronics & Control / Electronics Instrumentation and Control / Electronics & Telematics	IN EE EC	EC EE EI
		Instrumentation and Control Systems			
		Control Engineering			
4	M.Tech (Mechanical Engg.)	Advanced Manufacturing Systems	B.E./B.Tech./AMIE in Mechanical Engg. / Automobile Engg. / Metallurgy / Mechanical Engg. (Mechatronics) / Industrial Engg./ Mechanical Engg. (Production)/ Aeronautical Engineering/ Production Engineering/ Industrial and Production Engineering/Marine Engineering or equivalent / Mechatronics / Mining Engineering / Industrial Production / Mechanical Marine/ Metallurgy	ME PI AE MT MN	ME
		Thermal Engineering			
		CAD/CAM			
		Machine Design			
		Mechatronics			
		Computer Aided Design and Manufacture			
		Mechanical Engineering Design			
		Computer Aided Analysis & Design			
		Advanced Manufacturing and Mechanical			
		Systems Design			
Thermal Science and Energy Systems					
5	M.Tech (Electronics & Communication Engineering)	Systems & Signal Process	B.E./B.Tech.in ECE/AMIE in ECE /AMIE (Electronics and Telecommunication Engineering/AMIETE (Electronics & Telematics Engg.) / (Electronics & Computer Engg.) or equivalent. M.Sc. (Electronics) is not eligible.	EC	EC
		Digital Electronics & Communication Systems			
		Electronics & Communication Engg.			
		Communication Systems			
		Communication Engineering and Signal Processing			
		Microwave and Communication Engineering			
		Telematics			
		Telecommunications			
		Digital Signal Processing			
		Communication and Signal Processing			
VLSI & Embedded Systems					

6	M.Tech (D.S.C.E)	Digital Systems & Computer Electronics	B.E./B.Tech./AMIE in ECE/EEE/CSE/Electronics & Computers Engg./ETE/IT/CSIT/ Electronics & Control Engg. / Instrumentation Engg. / Instrumentation Technology/ EIE/ Electronics Engg. / Bio-Medical Engg. / AMIETE and Electronics and Telematics Engg. (OR) equivalent. M.Sc (Electronics) is not eligible.	EC EE CS IN	EC EE CS EI
		Embedded Systems			
		VLSI			
		VLSI Design			
		VLSI System Design			
		VLSI & Embedded Systems			
		Embedded Systems & VLSI Design			
		VLSI Design and Embedded System			
	VLSI & Micro Electronics				
7	M.Tech (Computer Science / Computer Science & Engineering)	Computer Science	B.E./B. Tech./AMIE in any branch Engg., /Tech (or) equivalent Master's Degree in Physics. Statistics, Mathematics or Applied Mathematics, Applied Statistics, Applied Physics, Geophysics, M. Sc (Comp. Sci), M. Sc (Information Systems), (Computer Applications and Electronics) and MCA, M.Sc (Electronics) or Equivalent eligibility	CS CSE	CS CSE
		Computer Science and Engineering			
		Computer Science and Technology			
8	M. Tech (Bio-Technology)	Bio-Technology	B. E./B. Tech/AMIE: Chemical Engg./Bio-Technology/Biochemical Engg./Bio Informatics / Industrial Biotechnology/Agricultural Engg. Or M. Sc. In Env. Sciences/Chemistry/Biochemistry/Microbiology/Biotechnology/Life Sciences/B.V. Sc / M.B.B.S / B.D.S/B. Pharmacy/Food Technology	BT CH GPAT XL AG	BT

9	M. Tech (Computer & Communication)	Image Processing	B.E./B. Tech./AMIE in CSE/ECE/CSIT/IT/ETM/EEE/EIE & CSSE equivalent.  M. Sc (Electronics) is not Eligible	CS EE EC IN	CS EE EC EI
		Computer & Communications/Computers & Communication Engg.			
		Computer Networks			
		Computer Networks and Informatics Security			
		Digital Image Processing			
10	M. Tech (Chemical Engineering)	Chemical Engineering	B.E./B. Tech./AMIE/AMICHE. Chemical Engineering /Petrochemical Engineering	CH	CH
	M. Tech (Petroleum Engineering / Petro chemical Engineering)	Petroleum Engineering	B.E./B. Tech. /AMIE / AMICHE in chemical Engineering /Petrochemical Engineering /Petroleum Engineering /Applied Petroleum Engineering /Geo-Science Engineering /Mechanical Engineering or Equivalent	CH PE ME	PE CH ME
		Pipeline Engineering	B.E./B.Tech./AMIE/AMICHE in Chemical, Petrochemical, Petroleum, Mechanical, Instrumentation, Civil, Electrical, Geo-Science Engineering or Equivalent	CH PE ME IN CE EE	PE ME CH CE EE EI
11	M. Pharmacy	Pharmacology	B. Pharmacy	GPAT	PY
		Pharmaceutical Chemistry			
		Pharmaceutics			
		Pharmaceutical Analysis			
		Pharmacy Practice			
		Pharmacognosy			
		Industrial Pharmacy			
		Pharmaceutical Quality Assurance			
		Pharmaceutical Regulatory Affairs			
		Pharmaceutical Biotechnology			

12	M. Tech (Nano-Technology)	Nano Technology	B.E./B. Tech. in Chemical/Mechanical /Aeronautical/Electronics/ Electrical/Computer Engg./Bio-Technology/Material Science (or) Equivalent Degree M. Sc. In Chemistry / Physics / Biotechnology/Earth Sciences/Environmental Science & Technology / Electronics or Equivalent degree	AE BT CHE CS EC EE GG ME MT	NT
13	M. Tech	Spatial Information Technology	B.E./B. Tech./AMIE any branch in Engineering or M. Sc (Maths) /( Physics) /Geology/Env. Science & Tech ( <b>life Science, Botany, Chemistry are not eligible</b> )	CS EC AG PE CE GG MA MN PH XE	CS EC AG PE CE GG MN
		Remote Sensing			
		Geo-Informatics			
14	M. Tech	Food Processing Technology	B.E./B. Tech or equivalent degree in Food Technology / Food Engineering/Bio Technology /Dairy/Food Science/Agriculture Engineering, M. Sc in (Food Technology/Food Sciences & Nutrition / Bio Technology/Chemistry/ Dairy Tech)	BT AG CY XL XE	FT
15	M. Tech	Avionics	B. E./B. Tech or equivalent degree Electronics and Communication Engg./Electronics/Electrical and Electronics/Electrical/CSE/ Information Technology/EIE/Electronics and Control	EC EE IN CS	EC EE EI CS

16	M. Tech	Information Technology	B.E./B. Tech./AMIE in CSE/CSIT/Electronics & Computers Engg./IT & Computer Science and Systems Engineering. Equivalent (or) MCA	CS CSE	CS CSE
		Software Engineering			
		Neutral Networks			
		Cyber Security			
17	M. Tech	Bio-Informatics	B. Tech. (CSE/IT/ECE/Biotechnology), MCA, M.Sc (Bioinformatics/ Biotechnology)	CS BT	CS BT EC
18	M. Tech	Bio-Medical Engineering	B.E./B. Tech./AMIE in Bio-Medical Engg. Or ECE or EE or EIE or Equivalent	EC EE IN	EC EE IN
19	M. Tech	Environmental Engg. & Management	B.E./B. Tech./AMIE in Civil Engg., Chemical Engineering, Civil and Environmental Engg.	CE CH CEE	CE CH CEE
20	M. Tech	Renewable Energy	B.E./B. Tech/AMIE in Electrical and Electronics Engg./Mechanical Engineering	EEE	EEE
				ME	ME
21	M.Tech	Environmental Occupational Health & Safety	B. E./B. Tech./ AMIE For all engineering branches and related courses	any GATE	any PGECET
22	M.Tech (Metallurgy)	Material Science and Technology	B. E./B. Tech./ AMIE (Mech, Metallurgy)	ME MT	ME MT