

Centre for Sensors, Instrumentation, and Cyber-Physical Systems Engineering (SeNSE)

Date: 11-11-2024

1. Short-listing criteria for Ph.D. for the Semester 2 of academic year 2024-2025

Area of research advertised: Sensors and Transducers; Electronic and optical sensors; Electronic Components and Circuits; Electronic circuit design (analog and digital); Electronic Techniques for Signal Conditioning and Interfacing; Signal and Image processing; CMOS analog and mixed signal circuits & systems for sensors; Optical Metrology; Micro-optics; Aspheric and freeform optics; Optical instrumentation; Holographic microscopy; Digital speckle pattern interferometry; Optical coherence tomography; Display Devices and Technology; Quantum optical devices; Integrated quantum technologies; Optical image processing; Machine Vision and Automation; Signal, Image and Video Processing Techniques for Non-destructive Testing; Tera Hz, InfraRed, X-ray, and Ultrasound Imaging Modalities; Precision Measurement Systems; Precision mechanics; Instrumentation and Control; Instrument Design and Simulations; Mechatronics; Embedded systems; Sensors Systems; Smart Systems.

The candidates who have mentioned their broad proposed area of research as above will only be shortlisted.

The other shortlisting criteria for interview for admission to
Full-time

S. No	Qualifying Degree		Minimum % / GPA / GATE Score					
				GEN	EWS	OBC	SC/ST/P H	
1.	M.Sc. in Physics	GATE	M.Sc.	% Aggregate	≥ 75.0	≥ 75.0	≥ 75.0	≥ 70.0
				CGPA(10 Point)	≥ 7.5	≥ 7.5	≥ 7.5	≥ 7.0
			GATE Score		≥ 400	≥ 400	≥ 375	≥ 325
			Preceding Degree (%Aggregate)		≥ 60	≥ 60	≥ 60	≥ 55
		JRF(CSIR/UGC /DST-INSPIRE)	M.Sc.	% Aggregate	≥ 75.0	≥ 75.0	≥ 75.0	≥ 70.0
				CGPA(10 Point)	≥ 7.5	≥ 7.5	≥ 7.5	≥ 7.0
			Preceding Degree (%Aggregate)		≥ 60	≥ 60	≥ 60	≥ 55
		M.Sc. from IITs	M.Sc.	CGPA(10 Point)	≥ 8.0	≥ 8.0	≥ 8.0	≥ 8.0
			Preceding Degree (%Aggregate)		≥ 60	≥ 60	≥ 60	≥ 55
		2.	M.Tech. in relevant branch of Engineering or Physics	M.Tech.	% Aggregate	≥ 75.0	≥ 75.0	≥ 75.0
CGPA(10 Point)	≥ 7.5				≥ 7.5	≥ 7.5	≥ 7.0	
Preceding Degree (%Aggregate)				≥ 60	≥ 60	≥ 60	≥ 55	




3.	B.Tech. in relevant branch of Engineering	GATE	B.Tech.	% Aggregate	≥ 77.5	≥ 77.5	≥ 77.5	≥ 72.5
				CGPA(10 Point)	≥ 7.75	≥ 7.75	≥ 7.75	≥ 7.25
			GATE Score		≥ 500	≥ 500	≥ 500	≥ 350
		JRF(CSIR/UGC /DST-INSPIRE)	B.Tech.	% Aggregate	≥ 77.5	≥ 77.5	≥ 77.5	≥ 72.5
				CGPA(10 Point)	≥ 7.75	≥ 7.75	≥ 7.75	≥ 7.25
		B.Tech. from IITs	B.Tech.	CGPA(10 Point)	≥ 8.0	≥ 8.0	≥ 8.0	≥ 8.0
		B.Tech. students from CFTI at the end of 3 rd year	B.Tech.	CGPA(10 Point)	≥ 8.0	≥ 8.0	≥ 8.0	≥ 8.0

Requirement of qualification in GATE / National Exam is waived for the following categories of applicants:

- Currently registered students in Centrally Funded Technical Institutes (CFTIs) pursuing B. Tech./B.E./ Integrated M. Tech/ Integrated M. Sc. programmes, who have completed 6 semesters or more, and have CGPA of 8.000 or above (on a 10 point scale). Such students must obtain a CGPA of 8.000 or above at the time of graduation, and before they formally register for the Ph.D. programme (80% aggregate marks, if marks is the primary mode of evaluation);
- Graduates of CFTIs (in the programmes marked under (i)) with a final graduation CGPA of more than 8.000 (80% aggregate marks, if marks is the primary mode of evaluation);
- M.A or M.Sc. graduates from IITs with CGPA 8.000 or above

Part-Time/Full time Sponsored Candidates:

For part-time applicants of all categories (GEN/OBC/SC/ST/PH), minimum educational qualification is same as for full-time candidates except that the requirement of qualifying the national scholarship examination (e.g., GATE/CSIR/UGC/DST-INSPIRE) is waived off. After the qualifying degree they should have minimum 2 years of relevant working experience in Public Sector Undertakings or Govt. Laboratories and Industries of Repute.

2. Short-listing criteria for MS (R) in SeNSE for the Semester 2 of academic year 2024-2025

Full Time:

Discipline wise		GEN	EWS	OBC	SC/ST/PwD	
Electrical Engg, Elec. and Comm./Telecomm Engg. Instrumentation/Elec/Contrl	GATE SCORE	≥ 600	≥ 600	≥ 550	≥ 425	
	DEGREE	%	60	60	60	55
		CGPA	6.0	6.0	6.0	5.5
Mechanical Engineering and Allied Disciplines	GATE SCORE	≥ 575	≥ 575	≥ 525	≥ 400	
	DEGREE	%	60	60	60	55
		CGPA	6.0	6.0	6.0	5.5
Physics	GATE SCORE	≥ 450	≥ 450	≥ 400	≥ 375	
	DEGREE	%	60	60	60	55
		CGPA	6.0	6.0	6.0	5.5

Requirement of qualification in GATE / National Exam is waived for the following categories of applicants:

- (i) Currently registered students in Centrally Funded Technical Institutes (CFTIs) pursuing B. Tech./B.E./ Integrated M. Tech/ Integrated M. Sc. programmes, who have completed 6 semesters or more, and have CGPA of 8.000 or above (on a 10 point scale). Such students must obtain a CGPA of 8.000 or above at the time of graduation, and before they formally register for the MS(R) programme (80% aggregate marks, if marks is the primary mode of evaluation);
- (ii) Graduates of CFTIs (in the programmes marked under (i)) with a final graduation CGPA of more than 8.000 (80% aggregate marks, if marks is the primary mode of evaluation);
- (iii) M.Sc. graduates from IITs with CGPA 8.000 or above

However, if a candidate admitted to M.S.(R) programme following the above criterion wanted to convert to M.Tech. programme, he/she should also meet the shortlisting criteria of the M.Tech. programme, in addition to the conversion criteria (including requirement, if any, of a valid examination in GATE / National Examination).

Part-Time /Full time sponsored

For part time/full-time sponsored applicants of all categories (GEN/OBC/SC/ST/PH), minimum educational qualification is same as for full-time candidates except that the requirement of qualifying the national scholarship examination (e.g., GATE/) is waived off. After the qualifying degree they should have relevant work experience of duration as per the following Table in Public Sector Undertakings or Govt. Laboratories and Govt. or Private Industries of Repute.

Sl. No.	Qualifications	Work Experience (Post Qualification)
1	B.E./B.Tech./M.Sc or equivalent, from CFTIs/Central Universities	6 Months
2	B.E./B.Tech./M.Sc or equivalent, and working in IIT Delhi* (Project or Regular) * Through proper channel	6 Months
3	B.E./B. Tech./M.Sc. or equivalent, from institutions other than CFTIs/ Central Universities)	1 Year



Prof Manish Kumar
Officiating CRC Convenor, SeNSE




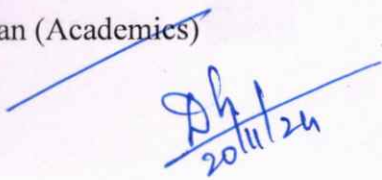
Prof Ravibabu Mulaveesala
CRC Chairman, SeNSE

Academics & Examination

M.S.(R) shortlisting criteria of SeNSE (full-time/ part-time/ sponsored) for admission to 2nd semester 2024-25 has been checked and found correct.

submitted for approval please.


D.R. / Sr. Consultant (Academics)


Dean (Academics)

Academic Section (Pg)

Enclosed Ph.D. Short Listing (fulltime/Parttime) Criteria for admission to Ph.D. Programme for Centre -
for GENSE for 2nd Semester, 2024-25, may be approved.

Apd.
20/11/2024

AAO (Academics) — on leave

~~Sr. Consultant / Ar (Acad.)~~ JS
20/11/2024

~~Dean (Acad.)~~ Ph
20/11/24