

National Institute of Technology, Tiruchirappalli

(An Institute of National Importance, Ministry of Education, Govt. of India)
Tanjore Main Road, Tiruchirappalli, Tamil Nadu 620 015

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Rajya Sabha Admitted unstarred Question Dy. No. U891 for answer on 21.03.2025 on Uses of Artificial Intelligence (AI) in various sectors in India

- a) **whether the Government has evaluated the positive and negative impact on extensive use of Artificial Intelligence (AI) in various sectors in India**

ANS: Yes

- b) **If so, the details thereof?**

ANS: The Government has understood the negative impacts of AI and in order to evaluate the negative impacts, a "Call for Proposal" was initiated by MeitY in association with indiaAI. The Call for proposal invited project on Responsible and Ethical AI principles, Machine Unlearning, etc. NIT Trichy have also submitted some Expression of interest for this call and are waiting for results.

- c) **Action contemplated to mitigate the negative impact and to prevent its misuse by a controlled mechanism;**

ANS: Restricted use of AI need to be followed which will be driven as the outcome of the initiated call for proposal.

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Rajya Sabha Starred Question Diary No. 2457 for 19.03.2025

- a) **The details of the steps taken to ensure that girls have equal access to education, particularly in rural and economically disadvantaged areas.**

NIL

- b) **The details of the steps to support women's higher education and skills development in the country**

Encouragement to women to take part in each and every activity in the organization which motivates women in skill development. Continuous monitoring about the enrolment rates, dropout rates, and academic performance will be performed to ensure that girls are not being left behind.

- c) **Whether there is any specific initiative to encourage women to pursue careers like science, technology, engineering and mathematics (STEM), if so, the details thereof; and**

Student aid funds will be given the students on merit basis where women students can also be encouraged to apply for the student aid fund.

- d) **The manner in which the Ministry is addressing the issues of safety and security in schools to ensure that girls continue their education without fear of harassment or violence?**

Anti-Sexual Harassment Policies:

The institution follows strict anti-sexual harassment policies, with a focus on preventive measures and creating awareness among students. Workshops, seminars, and awareness campaigns are regularly conducted to sensitize students, faculty, and staff on issues related to sexual harassment and gender equality.

Internal Complaint Committee:

Internal complaint committees are responsible for addressing complaints of sexual harassment and providing a safe environment for students to report any incidents without fear of retaliation.

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24/7 Security Personnel:

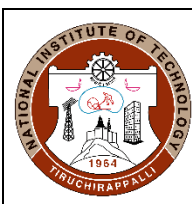
Our organization have dedicated security personnel stationed at key points around the campus and hostels. This helps to ensure that students feel safe at all times.

CCTV Surveillance:

CCTV cameras have been installed at strategic locations to monitor any potential incidents of harassment or violence. These cameras are an important part of ensuring campus safety.

Hostel Entry/Exit Restrictions:

Female hostels often have strict entry and exit protocols, including mandatory sign-ins and sign-outs, to track who is entering and leaving. This helps to create a controlled and safe environment.



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Provisionally Admitted Lok Sabha Starred Question Diary No. 2624 to be answered on 10/02/2025 regarding “Prime Minister’s Research Fellowship”

- a) the details of the current of Prime Minister’s Research Fellowship (PMRF), including the number of fellowships awarded during the last three years;

Current number of PMRF scholars – 22 No of fellowships awarded in the last 3 years: 21

Academic Year	Fellowships awarded
AY 2022-23	10
AY 2023-24	11
AY 2024-25	0

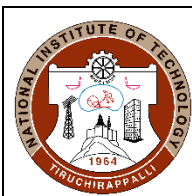
- b) the criteria and process for selecting the candidates; and

- On receiving call for nominations from PMRF Nodal Office, PMRF Institute Coordinator in jointly with Dean (Academic Programme) invites proposal nominations from Heads of Departments
- Scholars whose proposals evaluated and recommended by the Department Committee were requested to make presentation before Institute PMRF Steering Committee members
- Proposals recommended for nomination by the Department Committee are being evaluated by Institute PMRF steering Committee with reference to following criteria
 - Innovation/ Novelty
 - Alignment with PMRF-NCC norms
 - Deliverables
 - Societal impact
- Proposals with sufficient technical content/novelty/publications/societal impact in alignment with PMRF guidelines recommended by Institute Steering Committee and further approved by Director are communicated to PMRF Nodal Office

Contd.../-

- c) **the total funds allocated and utilised for the PMRF scheme during the last three years?**

Financial Year	Fund Allocated	Fund utilised
FY 2022-23	33977464	26459137
FY 2023-24	36673798	30057089
FY 2024-25	23649983	20330929



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LSUQ D.No. 2994 dt 10.02.2025

S. No.	Question	Institute's reply
a.	Whether it is fact that candidates belonging to Schedule Castes and Schedules Tribes are deliberately not given appointment for teaching staff in IITs, AIIMS, IIMs and other Central Government Premier Institutions of the country.	No
b.	If so, the details thereof;	No
c.	The numbers of candidates belonging to Scheduled Castes and Scheduled Tribes have Not Found Suitable (NFS) for the posts in teaching staff in IITs, AIIMS, IIMs and other Central Government Premier Institutions of the country during the last ten years;	No
d.	Whether the Government has made any regulation to ensure appointment of Scheduled Castes and Scheduled Tribes candidates, if so, the details thereof; and	The Institute is following the provisions of Central Educational Institutions (Reservation in Teachers Cadre) Act 2019 and notification thereunder.
e.	The details of the legal action initiated against the violators of rule for appointment of Scheduled Castes and Scheduled Tribes in teaching staff?	

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Rajya Sabha provisionally Admitted Starred/Unstarred Question Dy. No. S3123 regarding "Efforts to make Viksit Bharat by 2047 in the fields of Statistics and Planning implementation" due for answer on 17.03.2025

- a) **efforts made by the Government to make Viksit Bharat by 2047 through the use of Statistics, surveys and planning implementation**

Not Applicable

- b) **Whether the Ministry has drawn any roadmap for making Viksit Bharat by 2047?**

Not Applicable

- c) **If so, the details thereof,**

Not Applicable

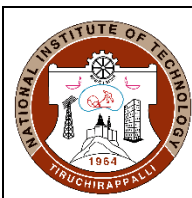
- d) **whether the Ministry is evaluating new policies/schemes and legislative proposals based on their potential contribution towards achieving 'Viksit Bharat' by 2047?**

Yes

- e) **if so the details thereof and if not, the reasons therefore?**

Education plays an essential role in shaping the younger generation. In this aspect, the following are undertaken.

- Efforts are made to motivate school students through laboratory training/visits, special lectures etc.
- Providing internship opportunities for students to inculcate higher-level skills.
- Demonstrate fundamental concepts and showcase the facilities available at the higher learning institute to school students appropriate to their age. The above aspects shall help the current generation of students to acquire skills and motivation.



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Rajya Sabha Provisionally Admitted Unstarred Parliament Question Diary No. U4236 due for answer on 20.03.2025 regarding "Support Mechanisms for Women Scientists Facing Career Breaks"

- a) **Whether the Government has implemented schemes or policies to support women scientists facing a "break-in-career" due to family responsibilities, maternity, or other factors; if yes, the details thereof, including eligibility criteria and financial assistance provided;**

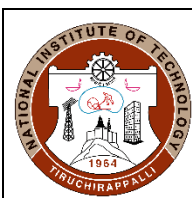
NITT is a centrally funded Educational Institution offering only the Academic courses viz. B.Tech., M.Tech. and Research at Ph.D. level. And further to state that no women scientist is being employed in this Institute. Hence the said Rajya Sabha question not applicable to this Institute.

- b) **The state-wise details of beneficiaries under these initiatives for the past five years, along with the total funds allocated and utilized;**

Not applicable

- c) **Whether the Government has introduced any mentorship programs, research fellowships, or flexible work arrangements to encourage the re-entry of women scientists into research and academia;**

Not applicable



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Rajya Sabha Provisionally Admitted Starred Questions Diary No. 4884 to be answered on 02.04.2025

- a) The total number of sanctioned seats in National Institute of Technology, IITs, Super Specialities and Medical Institutions across the country. Please provide details thereof;

Sanctioned Strength excluding DASA					
Programme		2021-22	2022-23	2023-24	2024-25
UG	B. Tech.	981	981	981	981
	B. Arch.	57	57	57	57
	B. Sc. B. Ed.				50
UG Total		1038	1038	1038	1088
PG	M.Arch.	25	25	25	25
	M. Tech.	688	688	688	688
	MA	25	25	25	25
	MBA	115	115	115	115
	M.Sc.	109	109	109	109
	MCA	115	115	115	115
PG Total		1077	1077	1077	1077
Ph.D.	FT	146	146	146	146
Total Strength		2261	2261	2261	2311

- b) The total number of seats lying vacant since last five years.

	UG	PG	Ph.D.
2024	6	185	60
2023	11	189	73
2022	19	139	67
2021	17	140	20
2020	24	121	10

- c) Steps taken by Government to fill these seats in the last three years? 2261 For all NITs Admission process is conducted by Common Admission Councils for UG (JoSAA, CSAB), PG (CCMT, NIMCET, CCMN), Ph.D. (By NITT).

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**Request for inputs with respect to Provisionally admitted Question in
Rajya Sabha Dy No. 5971**

- a) **efforts made whether the Government is considering taking measures to introduce the use of artificial intelligence in educational institutions in the country;**

NIT Trichy has introduced the following courses in UG / PG curriculum

- ✓ Artificial Intelligence and ML as core course in B.Tech CSE.
- ✓ Advanced AI, Generative AI, and Responsible and Ethical AI as Professional Electives in B.Tech CSE.
- ✓ AI aspects as Professional Elective in M.Tech CSE
- ✓ AI as one of the courses in the list of Minor Electives for other branch students
- ✓ AI & ML as one of the open electives for other branch students.

In addition, AI based projects are being executed by B.Tech and M.Tech students. Faculty submit proposals to call for proposals from Government in AI. Call for Proposals in specific areas of AI initiated by MeitY and IndiaAI. NIT Trichy have submitted proposals on the same and have been sanctioned two students projects. The Ministry of Electronics and Information Technology (MeitY) along with IndiaAI has organized a meeting in hybrid mode with representatives from all the National Institutes of Technology (NITs) and the Indian Institutes of Technology (IITs) to discuss the dissemination of funds to execute projects for developing large language models (LLM's) by involving B.Tech students, M.Tech students, and faculty members. In this context, our students submitted proposals for developing LLMs for various domains, and we are pleased to report that two of our B.Tech students were selected to work on projects that involve the development of LLMs for a specific domain. Funding was approved and transferred to the students' accounts. We have also submitted an initial progress report on February 28th 2025 to IndiaAI for this project, which is set to be delivered by June 2025.

A CoE in AI is being set up at NIT Trichy funded by TCS foundation. The physical infrastructure is established and NIT Trichy is in the process of communicating with TCS for equipment infrastructure and manpower.

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b) if so, the details of such measures being taken/to be taken thereof;

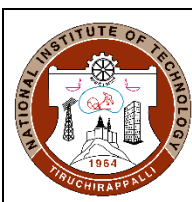
The details have been mentioned above.

c) The expected benefits arising out of the same; and

- B. Tech and M. Tech students tend to use and resort to AI and ML approaches for solving their problems
- Awareness among students for using and resorting to AI Generative models.

d) The proposed measures to be taken thereof?

Some awareness workshops on using these tools would serve as the basis and NIT Trichy plans to conduct such workshops periodically.



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Inputs for provisionally admitted Starred Question Diary No.- 7581 for Rajya Sabha for answer on 02/04/2025 regarding India's Engagement with the EU in Higher Education & Research

- a) **Whether India is collaborating with EU nations to enhance higher education exchanges and research collaborations; if so, the details thereof;**

Yes.

S. No.	Collaboration programme	University	Country	Title
1	Scheme for Promotion of Academic and Research Collaboration (SPARC)	Rheinisch-Westfälische Technische Hochschule Aachen	Germany	Photo induced Electron Transfer and Facile Charges Separation for Energy Applications.
2	Global Initiative of Academic Networks (GIAN)	Tallinn University of Technology	Estonia	Advances in Additive Manufacturing

- b) **The details of joint initiatives with European universities under programs like Erasmus+ and Horizon Europe;**

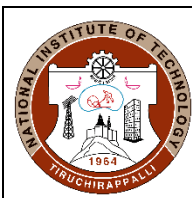
No

- c) **Whether any new agreements have been signed to promote student mobility, faculty exchange, and joint PhD programs; and**

No

- d) **The impact of these initiatives on India's academic institutions and research ecosystem?**

- ✓ Impact of SPARC project will be on Development of Energy
- ✓ Impact of GIAN project will be on Manufacturing Technology



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Inputs on Lok Sabha Provisionally Admitted Starred Parliament Question Diary No. S8301 due for answer on 19.03.2025 regarding "Development of Research and Professional Programme"

- a) whether it is a fact that Government has taken up initiatives for developing an inclusive society and empower different strata of the society through S&T interventions?

Not applicable to NIT Tiruchirappalli.

- b) If so, the details thereof and the way in which these are useful to all the people along with the funds sanctioned and spent for the purpose till date?

Not Applicable

- c) the steps taken by Government to develop research and professional programs for marginalized and backward classes, in order to provide them with high levels of education and skilled employment possibilities; and

ANRF (formerly known as SERB) has floated projects targeting marginalized and backward classes (Empowerment and Equity Opportunities for Excellence in Science (EMEQQ)), Under this scheme many of our faculty members got projects sanctioned. The list of projects is tabulated and given in the excel sheet attached.

- d) if so, the details thereof?

The list of projects is tabulated and given in the excel sheet attached.

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**Lok Sabha Provisionally Admitted Question Dy. No. 8419 to be answered on
13.03.2025 reg "AI Research and Innovation Enhancement"**

- a) **the steps taken by the Government to promote and enhance AI research and innovation across the country;**

Call for Proposals in specific areas of AI initiated by MeitY and IndiaAI. NIT Trichy have submitted proposals on the same and have been sanctioned two students_projects. The Ministry of Electronics and Information Technology (MeitY) along with IndiaAI has organized a meeting in hybrid mode with representatives from all the National Institutes of Technology (NITs) and the Indian Institutes of Technology (IITs) to discuss the dissemination of funds to execute projects for developing large language models (LLM's) by involving B.Tech students, M.Tech students, and faculty members. In this context, our students submitted proposals for developing LLMs for various domains, and we are pleased to report that two of our B.Tech students were selected to work on projects that involve the development of LLMs for a specific domain. Funding was approved and transferred to the students' accounts. We have also submitted an initial progress report on February 28th 2025 to IndiaAI for this project, which is set to be delivered by June 2025.

- b) **whether the Government has identified any priority areas for AI research and innovation,**

Yes, Translation using Bhashini platform. NIT Trichy has submitted feedback about the platform and is part of the Bhashini team

- c) **if so, the names of these areas along with the rationale for their selection;**

Scrutiny Process

- d) **whether the government has achieved success in advancing AI research and innovation; and**

Yes. NIT Trichy is in the process of establishing Centre of Excellence in AI & ML funded by TCS foundation. The physical infrastructure is ready. We are submitting a proposal to get the equipment infrastructure from TCS for the same.

- e) **if so, the details of notable initiatives or collaborations and if not, the reason therefor?**

Yet to get publication details on this.



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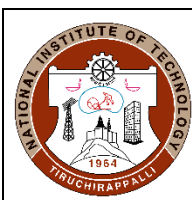
Lok Sabha Provisionally Admitted Question Dy. No. 8382 to be answered on 13.03.2025 reg "Development of Artificial Intelligence Hub"

- a) **whether the Government is developing an Artificial Intelligence (AI) hub to enable effective and efficient dissemination of information on various government initiatives and the platform will also have the facility for multilingual translation of contents for an effective outreach to the masses across the country and other initiatives included: Digital India Bhashini, a language translation platform; BharatGen, the world's first government-funded multimodal large language model, the Sarvam-1 AI LLM; Chitralekha, an open-source video transcription platform and the multilingual AI system Everest 1.0, which caters to various Indian languages; and;**

Yes

- b) **If so, the details thereof and the way in which these are useful to all the people along with the funds sanctioned and spent for the purpose till date?**

The Ministry of Electronics and Information Technology (MeitY) along with IndiaAI has organized a meeting in hybrid mode with representatives from all the National Institutes of Technology (NITs) and the Indian Institutes of Technology (IITs) to discuss the dissemination of funds to execute projects for developing large language models (LLM's) by involving B.Tech students, M.Tech students, and faculty members. In this context, our students submitted proposals for developing LLMs for various domains, and we are pleased to report that two of our B.Tech students were selected to work on projects that involve the development of LLMs for a specific domain. Funding was approved and transferred to the students' accounts. We have also submitted an initial progress report on February 28th 2025 to IndiaAI for this project, which is set to be delivered by June 2025.



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Lok Sabha Unstarred Question No. 2487 regarding "Science fairs in Rural Areas" for reply on 10.12.2024

- a) **The details of the measures taken to promote scientific temper and rational thinking in rural areas, where superstition and unscientific beliefs and more prevalent:**

Every year during the flagship technical fest of NIT Tiruchirappalli, named Pragyan, the institute invites several (approximately 300) students from rural schools and organize a dedicated half day session named Techids towards the social and scientific awareness. Several students, faculty and staffs participate in these events.

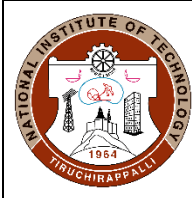
Additionally, on a regular basis throughout the year NIT Tiruchirappalli invites students from different schools in and around Tamil Nadu and organize one-day event towards social and scientific awareness and advancements. Each such program, includes participation of 100-150 school children and their faculty mentors from the respective schools.

- b) **Whether the Government has established programs to conduct awareness workshops of science fairs in rural areas; and**

Not Applicable.

- c) **If so, the number of such events held in the last three years and the impact of these initiatives on local communities?**

S. No	Name of the Institute	Years	Number or events
1	NIT Tiruchirappalli	2021-22	10
2	NIT Tiruchirappalli	2022-23	10
3	NIT Tiruchirappalli	2023-24	10



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Reply to Rajya Sabha Admitted Question Dy. No. s2644 for answer on 02.08.2024 on Government Plans for AI adoption and Development in Our Country

- a) **Whether the government is considering encouraging public-private participation through transparent schemes to encourage AI adoption in our country, and if so, the details thereof:**

YES

- Our institute has submitted a proposal for Rs. 2 crores to set up the Centre of Excellence in Agriculture by collaborating with 12 institutions & 17 private organizations and awaiting result in response to the MoE call for proposal.
- Our students take part in hackathons involving AI in all domains, like Agriculture, Flood warnings, and Societal challenges, conducted as part of the industry-institute interaction

- b) **Whether the government is considering strengthening AI research through the establishment of dedicated AI innovation centres, academic institutions, and startup ecosystems, and if so, the details thereof;**

YES.

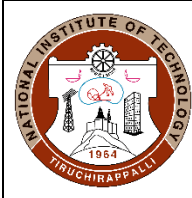
- Our institute has been sanctioned Rs. 10 crores to set up a Centre of Excellence in AI & ML by TCS. The work is under progress and is aimed at developing applications pertaining to societal problems.
- Our institute is participating in IADI - IndiaAI Application Development Initiative and aims to develop solutions for societal problems

- c) **Whether the government is considering tax incentives for firms investing heavily in AI research and development, and if so, the details thereof;**

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- d) **The measures taken by the government to strengthen AI infrastructure, such as high-end hardware and software?**

Around 50 B.Tech students are involved in the MeitY and IndiaAI initiative that aims at developing LLMs. A webinar was initiated on this in March 2024.



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Reply to the Rajya sabha Provisionally Admitted Unstarred Question Dy. No. 1708 to be answered on 02.08.2024 on "Artificial Intelligence"

a) Whether the Government is aware that the future workforce is equipped with the knowledge in the area of Artificial Intelligence that is imperative for the growth of the country?

Yes.

Our B.Tech, M.Tech and Ph.d students are working on projects related to AI and applications for their final year projects and thesis. This is applied for all branches of Engineering including circuit and non-circuit branches. The projects also include recent development in AI like Explainable, Responsible and Ethical aspects.

b) the details of the funds allocated, released and utilized under various schemes for promoting Artificial Intelligence during the last three years, year-wise, State/UT-wise? And

Funds have been sanctioned for the following activities: -

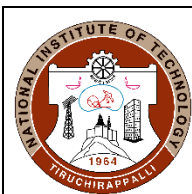
Name of the Centre	Sponsoring Agency	Amount (Rs.)	Status
Centre of Excellence in AI	Under HEFA fund	1,00,00,000/-	Being utilized by research scholars
Supercomputing Centre under NSM	MEitY, DST	20,00,00,000/-	Completed and utilized as per NSM norms
CoE AI & ML	TCS	10,00,00,000/-	In progress

c) the steps taken by Government to impart the knowledge of Artificial Intelligence to the youth of the country?

The following courses have been offered to undergraduate and Postgraduate students.

Degree	Branch	Courses
Under Graduate	Computer Science and Engineering	Artificial Intelligence, Machine learning, Deep learning, Responsible and Ethical AI, Generative AI
Post Graduate	Computer Science and Engineering	Machine learning, Deep learning, Responsible and Ethical AI
Undergraduate	All branches	Artificial Intelligence, Machine learning, Deep learning

IADI - Submitting proposal as part of the IndiaAI application development initiative



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Inputs on Starred/ Unstarred Question Dy.No.5263 for 09.12.2024 regarding Women Students in Higher Education Institutions

a) What the total number of women students enrolled in higher education (bachelors, masters, PhD) across the country, State-wise;

Programme	Years	Female
UG - B. Tech	2021-22 (IV-Year)	235
	2022-23 (III-Year)	240
	2023-24 (II-Year)	260
	2024-25 (I-Year)	251
UG - B. Arch	2020-21 (V-Year)	31
	2021-22 (IV-Year)	35
	2022-23 (III-Year)	38
	2023-24 (II-Year)	40
	2024-25 (I-Year)	35
PG - M. Tech	2023-24 (II-Year)	83
	2024-25 (I-Year)	106
PG - M. Arch	2023-24 (II-Year)	15
	2024-25 (I-Year)	12
PG - MBA	2023-24 (II-Year)	36
	2024-25 (I-Year)	31
PG - MSc	2023-24 (II-Year)	39
	2024-25 (I-Year)	35
PG - MA	2023-24 (II-Year)	20
	2024-25 (I-Year)	15
PG - MCA	2022-23 (III-Year)	21
	2023-24 (II-Year)	20
	2024-25 (I-Year)	18
PhD	2020-21 (V-Year)	69
	2021-22 (IV-Year)	93
	2022-23 (III-Year)	51
	2023-24 (II-Year)	54
	2024-25 (I-Year)	74
Total		1957

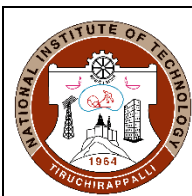
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- b) whether there has been an increase in enrollment of women students in higher education, if so, the details thereof; and**

Yes, there has been an increase of approximately 1% annually in the enrollment of women students in higher education.

- c) the measures taken by the Government to increase enrollment of women and ensure a safe environment for women in Higher Education Institutions?**

Government has introduced Supernumerary seats in undergraduate programme over and above the total number of sanctioned seats to increase enrollment of women in Higher Education Institutions. Based on the government directions, the institution has implemented measures to increase female enrollment over the years. In 2017, female enrollment was 14%, which rose to 17% in 2018. Since 2020, the institution has achieved a consistent 20% increase in female enrollment, reflecting its commitment to enhancing the representation of women in higher education



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Rajya Sabha Provisionally admitted Starred Question Dy.No. S3250 for 05.12.2024 regarding " Scientific Literacy and Public Engagement

- a) **What initiatives are being undertaken to enhance scientific literacy among school and college students?**

A course on professional ethics has been introduced as an elective to Under Graduate students to promote scientific literacy among students. Additionally, the recently launched B.Sc. B.Ed. integrated degree program aims to further advance scientific literacy in higher education.

- b) **Are there plans to include emerging technologies like AI, blockchain, and genomics in the national curriculum to prepare future generations for new challenges?**

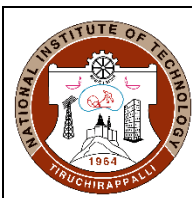
The under graduate and post graduate curriculum has been updated in alignment with the NEP 2020 and National Credit Framework. Emerging technologies such as AI, blockchain, and genomics have been incorporated in the curriculum to equip the students to tackle evolving challenges.

- c) **How is the government ensuring public participation in science-related policy making, especially on issues like climate change, energy, and health?**

Alumni and industry experts have been inducted into the Board of Studies to contribute to science-related policy development, particularly in areas such as energy and health. This initiative aims to bridge the gap between academia, industry, and policymaking, ensuring the curriculum and research are aligned with real-world needs and advancements. Additionally, the institute offers a specialized undergraduate course in Energy and Environmental Engineering for all undergraduate students.

- d) **Are there plans to collaborate with media and digital platforms to promote accurate and accessible scientific information?**

Yes, initiatives have been undertaken to leverage digital platforms like LinkedIn for day-to-day events, fostering collaboration, knowledge sharing, and engagement among students, alumni, industry experts, and policymakers.



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Rajya Sabha provisionally admitted Starred /Unstarred Diary No.-- S3107 regarding “Drug addiction among the youth”

- a) **What is the current status of drug addiction among the youth in India, and how it is affecting countries social and economic fabric?**

Not Applicable.

- b) **What steps government has taken to curb the illicit drug trade and trafficking, especially across borders and high-risk areas?**

Not Applicable.

- c) **What actions are being taken by the law enforcement agencies to tackle the growing presence of drug in schools, colleges and public places?**

As a higher education institute, NIT Trichy has conducted several awareness programs to tackle the growing presence of drugs in college premises. They include

- In the annual cultural event Festember 2023 conducted during October 2023, NIT Trichy in collaboration of Central Bureau of Communications (CBC) has organized workshops and seminars to spread the awareness of drugs and its effect among the students.
- Awareness program against drugs was conducted during the inaugural ceremony of the Sportsfete 2024 (conducted during September 2024).
- As a part of GoI initiative Nasha Mukh Bharat Avhiyaan, NIT Trichy has a dedicated team who conducts seminars and demonstrations to spread the awareness against the adverse effect of drug among the students.

- d) **How is the government ensuring strict enforcement of the narcotic drugs and psychotropic substances act, and what improvements are being made to prevent its misuse?**

Not Applicable.



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Lok Sabha Unstarred Question. 2145 dated 09.12.2024 regarding Women Enrollment in Higher Educational Institutions

- a) whether the Government has any data regarding the vacant posts primary school teacher in Karnataka, If so, the details thereof; - Not applicable.
- b) whether any vacancies of teacher have been observed in Government schools of Chikkaballapur, the details thereof; - Not applicable.
- c) whether the Government has a data on enrollment of women in higher educational institutions across the country, if so, the details thereof;

Programme	Years	Female
B.Tech.	2021-22 (IV-Year)	235
	2022-23 (III-Year)	240
	2023-24 (II-Year)	260
	2024-25 (I-Year)	251
B.Arch.	2020-21 (V-Year)	31
	2021-22 (IV-Year)	35
	2022-23 (III-Year)	38
	2023-24 (II-Year)	40
	2024-25 (I-Year)	35
B.Sc B.Ed.	2024-25 (I-Year)	20
M.Tech.	2023-24 (II-Year)	83
	2024-25 (I-Year)	106
M.Arch.	2023-24 (II-Year)	15
	2024-25 (I-Year)	12
MBA	2023-24 (II-Year)	36
	2024-25 (I-Year)	31
M.Sc.	2023-24 (II-Year)	39
	2024-25 (I-Year)	35
MA	2023-24 (II-Year)	20
	2024-25 (I-Year)	15
MCA	2022-23 (III-Year)	21
	2023-24 (II-Year)	20
	2024-25 (I-Year)	18
Ph.D.	2020-21 (V-Year)	69
	2021-22 (IV-Year)	93
	2022-23 (III-Year)	51
	2023-24 (II-Year)	54
	2024-25 (I-Year)	74
Total		1977

Contd.../-

d) the steps are being taken by the Government to ensure complete enrollment of women in higher educational institutions across the country, the details thereof, and

- ✓ Government has introduced Supernumerary seats in undergraduate programme over and above the total number of sanctioned seats to increase enrollment of women in Higher Education Institutions.
- ✓ Based on the government directions, the institution has implemented measures to increase female enrollment over the years. In 2017, female enrollment was 14%, which rose to 17% in 2018. Since 2020, the institution has achieved a consistent 20% increase in female enrollment, reflecting its commitment to enhancing the representation of women in higher education.

e) whether the Government has data on the rate of enrollment of women in higher educational institutions in Chikkaballapur, Karnataka, the details thereof?

Not applicable



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Rajya Sabha Unstarred Question No. 1790 (attached) to be answered on 07.08.2024 regarding "Impact of Artificial Intelligence on Higher Education"

- a) **Whether the Government has made attempts to address the concerns of increasing involvement of AI-based software like ChatGPT in Higher Education**

Yes. Students use ChatGPT like Generative AI software for the following purposes:

- To write reports
- For writing programs during projects or assignments

- b) **if so, the details thereof and if no the reasons therefor and**

At our institute, the following policies are being evolved:

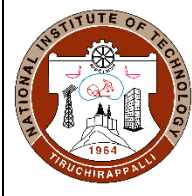
- We use Turnitin software to check for plagiarism which also points out the amount of auto-generated contents from software like ChatGPT.
- The code (programs) is also validated with plagiarism software to determine the visibility of the code.

However, we also use ChatGPT for productive purposes:

- Labelling the dataset, which could be used for building Machine learning models.
- Training the office assistants to write error-free letters.

- c) **whether there is need for a policy framework to regulate the use of Artificial Intelligence in the Education Sector.**

There is a branch of AI called Responsible and Ethical AI. Our institute has got this course as a Programme Elective for CSE students, which will be promoted as an Open elective also. This course teaches the ethical aspects of AI, such as accountability, transparency, security, and ethical concerns.



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Lok Sabha Unstarred Question No. 3346 for reply on 12.08.2024 regarding “IIM Bangalore”

- a) **whether the Government is aware of the complaint made by IIM, Bangalore faculty regarding the caste-based discrimination prevalent in IIM' Bangalore;**

ANS: ----

- (b) **if so, the measures taken by the Government in this regard; and**

ANS: NA

- (c) **whether the Government has evolved any mechanism to prevent caste-based discrimination in educational institutions?**

An OBC/SC/ST cell with a nodal officer is at NIT, Tiruchirappalli. If a student/faculty/staff member makes any complaint related to discrimination, the nodal officer will conduct an inquiry and recommend action. The cell creates awareness about the punishments for discrimination. As a result, no such discrimination has been reported in the last 5 academic years.

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URGENT: Seeking inputs on RSUSQ2350 for 12.08.2024

- a) **whether Government has taken any steps to reduce the dropout rates of minority students in educational institutions, if so, details thereof;**

National Institute of Technology, Tiruchirappalli has Mentor and counselors for students to guide students.

- b) **if not, reasons therefor; Not Applicable**

- c) **Whether Government has considered increasing the amount of Scholarships provided for minority students, as the present amount is very less, if so, details thereof; and**

Not Applicable

- d) **if not, reasons therefor and the details of scholarship schemes for minority students?**

NITT Students are benefited through the Following minority scholarship schemes:

- National Fellowship and Scholarship for Higher Education of ST Students Scheme
- PG SCHOLARSHIP SCHEME FOR SC ST STUDENTS TO PERSUING PROFESSINAL COURSES
- National Fellowship and scholarship for Higher Education for Scheduled tribe Students
- State Scholarship of SC/ST



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PARLIAMENT MATTER: LSUSQ D.No. 5369 regarding “Increasing of Indian Students Pursuing Higher Studies Abroad” to be answered on 09.12.2024.

- a) **Whether there is an increase in the number of Indian students pursuing higher studies abroad during the last five years along with the reasons therefore**

Yes, there has been an increase in the number of students pursuing higher studies abroad, driven by factors such as exchange programs, internships, and collaborative research projects with international institutions. Additionally, many global universities offer scholarships and financial aid for international students, making overseas education more accessible. A robust alumnus network also plays a significant role, in inspiring and supporting more students to explore educational opportunities abroad.

- b) **If so, the details and the number of students going abroad along with the steps taken by the Government in this regard, year-wise**

Academic Year	UG 4 Years	UG 5 Years	PG 2Years	Total
	No. of students selected for Higher Studies	No. of students selected for Higher Studies	No. of students selected for Higher Studies	
2019-20	160	4	26	190
2020-21	147	3	64	213
2021-22	120	5	26	151
2022-23	128	7	14	149
2023-24	103	8	23	134

- c) **Whether the Government has taken cognizance of the fact that Indian students are going abroad for better career opportunities, flexible citizenship norms, and quality education.**

Efforts include improving domestic job opportunities, strengthening educational infrastructure, and offering incentives to retain talent. Additionally, policies and schemes that promote innovation and career growth are being considered to mitigate this outflow over time. The government also focuses on enhancing the quality of higher education within the country through initiatives like the National Institutional Ranking Framework (NIRF) and reforms under the National Education Policy (NEP 2020). These measures aim to provide competitive alternatives and foster a robust ecosystem for students to thrive domestically.

- d) **If so, the measures adopted by the Government to address the same**

The "Skill India" and "Make in India" initiatives aim to encourage skilled professionals and graduates to remain in the country and contribute to its economic growth. Additionally, programs like the Atal Innovation Mission (AIM) and Startup India focus on fostering an ecosystem that enables entrepreneurs and innovators to flourish domestically.

Contd.../-

- e) **The policy reforms and measures adopted by the Government in respect of Universities and institutes to revamp higher education in the country and to have a check on the students going abroad**

The Indian government has implemented numerous reforms to strengthen the higher education sector. These include enhancing research through the Institution of Eminence (IoE) scheme and fostering international collaboration via programs like Study in India, which attracts international students to Indian institutions. Scholarships such as those offered by the National Research Foundation (NRF), INSPIRE Program, Prime Minister's Research Fellowship (PMRF).

Innovation is promoted through initiatives like Startup India and Make in India, encouraging graduates to explore entrepreneurial opportunities and diverse career paths. Employability is a key focus of the National Skill Development Mission (NSDM), which aims to prepare Indian youth for the demands of the global job market.

To make quality education more accessible, platforms like SWAYAM and NPTEL offer online courses in collaboration with leading institutions worldwide, enabling students to learn from global experts. These efforts collectively encourage innovation, entrepreneurship, and skill development among students and graduates, contributing to a robust higher education ecosystem.

- f) **Whether the Government has formulated any special scheme to develop educational and research institutes of international standard in the country?**

Yes, the government has introduced several initiatives and frameworks to develop educational and research institutions of international standards. The National Institutional Ranking Framework (NIRF) plays a pivotal role in enhancing the quality of education and research across institutions. The Institution of Eminence (IoE) scheme aims to transform select institutions into world-class teaching and research hubs.

Launched in 2021, the PM Gati Shakti National Master Plan emphasizes infrastructure development, including that of educational institutions. Research is actively supported through programs like the Prime Minister's Research Fellowship (PMRF) and funding agencies such as the Department of Science and Technology (DST) and the Council of Scientific and Industrial Research (CSIR). Additionally, the proposed National Research Foundation (NRF) seeks to foster and fund research across institutions, particularly in engineering and technology, further strengthening India's research ecosystem.



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Inputs for Rajya Sabha admitted Unstarred Question No.1777 for 11.12.2024 regarding "Promotion of Higher Education among Women in Rural Areas"

a) the details of steps taken by the Government to promote higher education among women in rural areas

The government has introduced supernumerary seats in undergraduate programs to enhance female enrolment in higher education institutions. These additional seats aim to expand women's opportunities and are part of broader initiatives to promote gender parity in education.

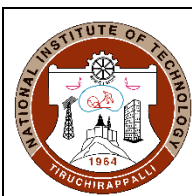
The institution has successfully implemented measures to boost female enrolment over the years. In 2017, female enrolment was 14%, which increased to 17% in 2018. Since 2020, the institution has consistently achieved a 20% increase in female enrolment, reflecting a strong commitment to improving women's representation in higher education.

Additionally, several government schemes have been crucial in encouraging women's participation in higher education. Programs like Beti Bachao Beti Padhao, Pradhan Mantri Uchchatar Shiksha Abhiyan (PM-USA), and financial assistance through the Indira Gandhi Scholarship for Single Girl Child have been instrumental in promoting education for women, especially in rural areas. Furthermore, initiatives such as the Pradhan Mantri Kaushal Vikas Yojana (PMKVY) offer skill development and vocational training, empowering women in rural areas to enhance their employability and pursue higher education.

Moreover, programs like the Swachh Bharat Abhiyan and the Mid-Day Meal Scheme address key barriers such as hygiene and nutrition, indirectly supporting the retention of female students in schools and higher education institutions. These efforts collectively aim to increase access to education and empower women, particularly in rural areas, by providing a supportive environment for their academic and personal growth.

b) the details of dropout rate i.e non-enrolment in higher education after school education among women in rural areas during last three years, State-wise and year-wise?

NITs Division								
Sl. No.	Name of the Institutions	Academic Years	Female Students					
			UG		PG		PH.D	
			Enrolled	Dropout	Enrolled	Dropout	Enrolled	Dropout
19	Tiruchirappalli	2020-21	267	3	247	9	69	4
		2021-22	269	3	215	9	93	7
		2022-23	278	0	217	6	51	2
		2023-24	300	1	213	2	72	1
		2024-25	287	1	217	2	74	0
Total			1401	8	1109	28	359	14



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Inputs for Lok Sabha Unstarred Question No. 3390 for 16.12.2024

- a) the total number of Ph.D. seats available across the country and whether the Government has any data on the enrollment of Ph.D. students, State-wise:

ANS: 2024 HTRA Sanctioned Seat in NITT - 146

States and UT	Count
Andaman and Nicobar Islands	6
Andhra Pradesh	138
Assam	2
Bihar	18
Chandigarh	1
Chattisgarh	5
Delhi	3
Goa	1
Gujarat	1
Haryana	3
Himachal Pradesh	3
Jharkhand	9
Karnataka	53
Kerala	208
Madhya Pradesh	10
Maharashtra	19
Meghalaya	1
Odisha (Orissa)	11
Others	1
Puducherry (Pondicherry)	8
Rajasthan	4
Tamil Nadu	662
Telangana	39
Tripura	1
Uttar Pradesh	34
West Bengal	13
Total	1409

- b) the current expenditure on research in social sciences and the manner in which it is compared with expenditure on research in other fields:

As on 16/12/2024 we have one running project in social science. The overall value of the project is Rs. 5,00,000.00 [Five lakh Only].

Contd.../-

- c) **the average stipend provided to Ph.D. students across the country and the manner in which it is compared with the stipend offered to Ph.D. scholars in developed countries like the United States, Germany and China; and**

JRF - Rs.37000/-per month
SR - Rs.42000/-per month

PMRF Scholars

1st and 2nd year - Rs.70000/-per month
3rd year - Rs.75000/-per month
4th year - Rs.80000/-per month
5th year for science - Rs.80000/-per month

- d) **whether the Government has any plans to increase the number of Ph.D. seats, particularly in under-represented fields like social sciences and improve financial support for scholars to promote high-quality research?**

Not Applicable.

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Rajya Sabha unstarred Question No 2610 for 18.12.2024 regarding “Drop out percentage of school going students from SC/ST, OBC & girls”

- a) **the percentage of dropout school-going students from Scheduled Castes (SC), Scheduled Tribes (ST), Other Backward Classes (OBC) and girls, the States having maximum drop outs percentages;**

Not applicable to NIT, Tiruchirappalli

- b) **whether the dropout rate among SCs/STs/OBCs students is disproportionately higher in country's centrally funded technical, medical and management institutions;**

The provided data is specific to NIT Tiruchirappalli only.

Academic Years UG/PG/Ph.D.	Female / Male Dropouts		
	OBC-NCL	SC	ST
2020-21	2/21	1/10	2/1
2021-22	8/22	4/11	2/5
2022-23	4/7	1/6	2/2
2023-24	0/10	1/7	0/4
2024-25	1/3	1/3	0/2

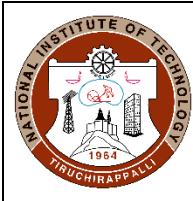
- c) **the negative impact of such dropouts;**

For individuals, dropping out often leads to limited career opportunities, lower earning potential, and increased vulnerability to unemployment.

- d) **the steps being taken to address such an abysmal state of affairs regarding SCs/STs, OBCs, and girl’s dropouts; and**

To address the dropout rates among SCs, STs, OBCs, and girls, several initiatives have been implemented. These include financial support through scholarships, to ease the economic burden on families. Special focus is given to creating inclusive learning environments providing mentorship programs, and offering remedial classes.

- e) **if so, the details thereof?** Not Applicable.



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Rajya Sabha Unstarred Question No. 209 for 27.11.2024 asked by Hon'ble MP. Shri K.R. Suresh Reddy regarding Digital Education Accessibility for Differently abled Students

- a) **the steps taken by Government to ensure that digital education platforms are accessible to differently abled students.**

To support differently-abled students, a dedicated Office of Learning Support (OLS) operates at the National Institute of Technology (NIT), Tiruchirappalli. The institute also provides access to Sugamya Pustakalaya, an online platform offering audio textbooks specifically designed for visually impaired students.

- b) **the current status of the implementation of assistive technologies for online education in schools and colleges.**

Efforts are underway to integrate AI-driven tools for personalized learning, real-time transcription services, and multilingual support to address diverse needs effectively.

- c) **whether Government is planning to expand these initiatives to ensure full inclusivity in the education system**

Not Applicable.

- d) **if so, the details thereof; and**

Not Applicable.



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Lok Sabha Starred Question Dy. No. 4133 to be answered on 05.08.2024 regarding "Promotion of Higher Education among Women in Rural Areas"

a) the measures taken/ being taken by the Government to promote higher education among women in rural areas;

- NITT Skill Hub Centre have effectively harnessed the potential of the PMKVY4.0 scheme to empower rural women over the past year. we have provided women with the necessary skills to thrive in today's competitive job market Through various tailored courses such as **Junior Software Developer, Office Assistant and Security Guard**, our focused efforts have not only equipped these women with technical and vocational skills but have also instilled confidence and independence, thereby uplifting their status within their communities of the rural regions around Tiruchirappalli and other delta districts. The resources and expertise of faculty members of the institute have been deployed in providing skill training also to the rural women. Moreover, the NITT Skill Hub Centre is playing a pivotal role in transforming the lives of rural women and fostering a more equitable society.
- The IGNITTE Club at NIT Trichy is dedicated to uplifting economically disadvantaged students including girls through comprehensive coaching for competitive entrance exams. Their mission is to provide quality coaching, guided by experienced mentors, to help rural students excel in engineering entrance exams. Many rural girl students have got benefit from this coaching. For instance, in 2023, Ramalakshmi M, an IGNITTE-trained student, scored 95.226 percentile in the JEE Mains and qualified for the JEE Advanced, securing a seat in Mechanical Engineering at IIIT Kanchipuram.
- There are 5 NSS units (each consists of 100 volunteers) at NIT Trichy. They do a lot of social service in nearby rural areas every year. Particularly, they visit Government Schools in villages like Vazhavanthakottai, Thirunedungulam, Thuvakudi, etc. to motivate the girl students to go for higher studies, and our students provide all the necessary support to them.
- NIT Tiruchirappalli is one among the Women Technology Parks to benefit women in rural areas under DST's 'Science and Technology for Women' Scheme. Under this scheme, ThirumathiKart, an e-commerce platform (Mobile Application) for Self-Help Groups and Women Entrepreneurs to market their products has been developed. It provides Self-help groups and Women Entrepreneurs with a formal platform to showcase their products to a wider market, and hence empower them by increasing their income for better livelihood options. Through this App the Women Entrepreneurs are empowered to widen their business area.

b) the details of dropout rate i.e. non-enrolment in higher education after school education among women in rural areas, State-wise;

Not Applicable

Contd.../-

- c) **whether the Government proposes to set up new institutions and universities to provide higher education to the women of rural India;**

Not Applicable

- d) **if so, the details thereof; and**

Not Applicable

- e) **the measures taken or proposed to be taken by the Government to educate women in the educationally backward areas of Kairana Parliamentary Constituency in Uttar Pradesh?**

Not Applicable



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LSUQ No. 1048 regarding NIRF 2024 Rankings to be answered on 02.12.2024

- a) **whether the 2024 rankings of the National Institutional Ranking Framework (NIRF) in the standing of Indian universities compared to 2023 where the universities which have experienced more than a 20% change in their 2024 rankings compared to 2023;**

- The rank has been decreased by 47.62% in overall category.
- In Engineering category, the previous year rank position has been retained.

- b) **whether many more private universities have seen improvements in rankings, while many prominent public institutions, such as the IISERs and NITs, have experienced significant setbacks in the rankings; and**

NIRF Category	NIRF 2023	NIRF 2024	Remarks
NIRF Engineering	9	9	Retained same rank
NIRF Overall	21	31	The rank has been decreased by 47.62%

- c) **the corrective steps taken by the Government in this regard; and**

- International Collaboration, Joint publication and interdisciplinary research are encouraged.
- For Ph. D. graduation, the research scholars have been recommended to publish in Q1 and Q2 journals.
- Initiative has been taken to strengthen the link between industry / SMEs and Institute.
- Redistribution of PG seats in order to cater the current demand of industry and academia.
- Sanctioned Strength for PhD scholars to be increased from 146 to 200.
- MoUs are to be established with top ranked Engineering institutes across India enabling direct Ph.D. intake.

- d) **if so, the details thereof and present status thereof?**

Specific actions taken:

- Flexible Curriculum: Aligned with NEP 2020 and NCrF (2024-25) for a modern academic experience.
- Up to 18 Credits via MOOCs: Earn significant credits through MOOCs (2024-25).
- Credit Transfer from IITs: Seamless credit transfer opportunities with IITs.
- Exit options: B.Sc. (Engineering) / 3 years / UG; M.Sc. (Engineering) / 1 year / PG.
- Interdisciplinary / Multidisciplinary Projects: Exciting project opportunities across diverse fields.

Contd..../-

- Expanded Opportunities: More options for Longer Internships and Semester Exchange programs.
- Seed Grant: Empowering new faculty to kickstart their research initiatives.
- State-of-the-Art R&D Infrastructure: Supporting cutting-edge research and innovation.
- Curriculum Labs Upgraded: Continuous emphasis on modernizing labs for current academic needs.
- Sophisticated Instrument Facility: Equipped for high-end research endeavors.
- 8000+ E-Journals: Regularly updated to provide comprehensive academic resources.
- Global Participation: Faculty are supported and encouraged to attend international conferences.
- PDA Utilization: Professional Development Allowance available for conferences and research activities.
- Financial Support: Coverage for journal over-length charges to aid in publishing.
- Faculty members have collaborations with foreign institutes through organizing GIAN courses and executing SPARC projects.
- Initiated an 8-week internship program for Summer 2024 at Illinois Tech Chicago, USA, as part of our MoU with Illinois Tech.
- Appropriate actions have been initiated with the State higher education department to have an MoU with top ranked institutes in Tamil Nadu for the upcoming academic year.