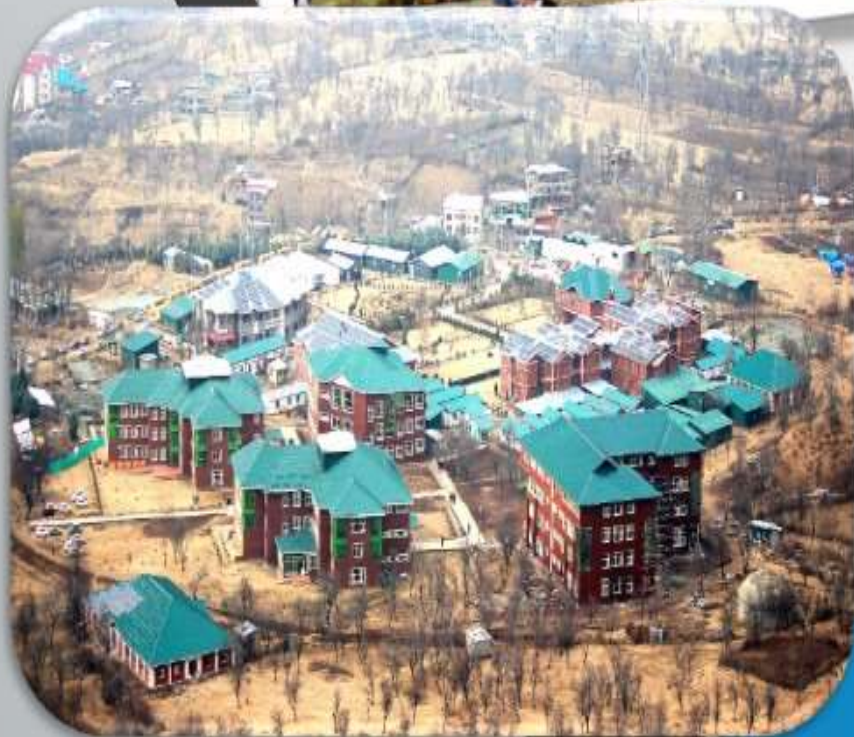


# ISLAMIC UNIVERSITY OF SCIENCE & TECHNOLOGY AWANTIPORA KASHMIR



Compilation/ Design  
Nawaz Hassan Pandith, IUST

PROSPECTUS 2024



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# ABOUT THE UNIVERSITY

The Islamic University of Science and Technology (IUST), Awantipora, J&K has been established through an Act No. XVIII of 2005 dated: 7th November 2005 passed by J&K State Legislature and notified by the State Government, through Jammu & Kashmir Government Gazette dated: 11-11-2005. While the university started functioning in November, 2005 the teaching programme was started in July 2006. The Chancellor of the University is the Hon'ble Governor of UT and the executive authority of the University is its Executive Council with the Vice Chancellors of University of Jammu, University of Kashmir and Baba Ghulam Shah Badshah University as members. The University is accredited by NAAC with Grade 'B+' and is recognized by University Grants Commission (UGC) under Section 2(f) and Section 12(b) of UGC Act. The Technical, Nursing and Architectural programmes offered by the University are approved by All India Council for Technical Education (AICTE), Indian Nursing Council (INC) and Council of Architecture (COA) respectively. The University has the membership of Association of Indian Universities (AIU).

The University came into existence with a mandate to advance and disseminate knowledge, wisdom and understanding amongst all segments of the society within and outside the State. It is also charged with creating an environment for learning, teaching and research in the sciences, technology, humanities and social sciences and that is in keeping with the highest standards of scholarship and higher education. People belonging to all sections of society are entitled to avail the facilities and opportunities offered by the University and there is no distinction on the basis of class, caste, creed, colour or religion.

## VISION

The University strives to support an environment of interdisciplinary learning which can nurture a socially responsible student community capable of making a difference at the local, regional, and global level.

## MISSION

- *To promote research and training that is relevant to important contemporary issues and play our rightful role in the developmental processes of the nation.*
- *To empower our students to take up the mantle of responsible, ethical, and purposeful leadership in various professions of the modern world.*
- *To develop collaborative linkages with other institutions in the creation of new knowledge capable of meeting the changing needs of our society.*
- *To promote teaching that is student-centric and cognizant of the needs of a diverse student body.*
- *To uphold the values of compassion, camaraderie, inclusiveness and advocate respect for our environment.*





## CORE VALUES

- *Academic excellence and engaged learning environment*
- *Inclusiveness and respect for different ideas and experiences*
- *Participatory management and transparency*
- *Innovation in ideas and deeds*
- *Social responsibility and respect for nature*

## LOCATION

The University is located in Awantipora, a small picturesque town situated on the main National Highway (NH1A) in Kashmir approximately 30 km south of the capital city of Srinagar and just adjacent to the famed saffron fields. This historically significant town was capital of Kashmir during the reign of Raja Awantivarman. The spectacular campus has the Himalayan mountain range on one side, the Jhelum River on the other and a beautiful grove of almonds cradling the main campus.

## OUTREACH

In order to supplement and complement the academic cooperative participation within the broad frame work of its vision and objectives and to promote and further the cause of IUST in developmental process of the state, it has established linkages with various Universities and other institutions of higher education across the globe. This among other things includes sharing of mutual facilities, faculty and curricular development programmes, consultancy, training, internship and placement programmes of the students in areas where such facilities may be required. This is of crucial importance in the initial developing stages of the University.

Islamic University of Science and Technology signed a tripartite MOU with Delhi University and University of Kashmir for mutual cooperation for the promotion of academic excellence.

IUST has signed Memorandum of Understanding (MoU) with Tokyo University of Foreign Studies Japan (TUFS) in order to achieve its common academic objectives. Besides, facilitating exchange of faculty and students, scholarships to the IUST students under the MoU, TUFS has installed Video Conferencing Equipment enabling the students to take lessons from international experts via video conferencing.

Other Universities / Institutions with which effective linkages have been developed include SKUAST-Jammu, University of Jammu, Jamia Hamdard -New Delhi, Bharti Vidyapeeth -New Delhi, Shiv Nadar University, Noida, Chaudhary Charan Singh University - Sirsa and other national and international institutions of repute.



## MORAL EDUCATION

Moral values particularly refer to the conduct of man towards man in different situations wherein, the human beings face each other at home and in social, professional and economic world. In order to inculcate moral and spiritual values in its students, the University has introduced Moral & Spiritual Studies as a subject in its curriculum. The aim of the initiative is to help the students in character building and to cultivate special traits like patience, tolerance, brotherhood and respect for all. Further, the University endeavours to create an integral Model of Curriculum by imparting quality education to its students in such a conducive environment, which facilitates them to develop a comprehensive personality with ethical values.

## COMMUNITY INITIATIVES

Besides, imparting formal education to the younger generation, the University realizes its role for community development especially given its rural setting. We take every opportunity possible to reach out to the local community and seek means and mechanisms to connect to it.

In this direction, IUST with the help of many expert individuals / organizations has made various efforts to reach out to the local community and raise awareness, make their grievances reach the authorities, apprise them of the latest technologies and trends to make their work easy and more attractive. So far the University has organised camps for seed distribution, health camps, workshop on new techniques in pottery etc.

While identifying the need of modern education to underprivileged children, the university makes efforts at its own level to reach to them in the immediate vicinity of the campus. This is being done under Reach Out And Mentor (ROAM) tutoring program started by the Mantaqi Centre for Science and Society. The center has drawn volunteers from students and faculty who teach students of a nearby seminary basic computer courses and other subjects that are part of formal system of education.

The University has also started 'Pesh Kadam' a joint initiative of the Islamic University of Science and Technology (IUST) and PANOS India in December 2009 which is successfully going on. The capacity of IUST with its department of Journalism and PANOS' experience in working on radio were brought together in this endeavor for a community based initiative using radio as a tool. The program is aimed to create a space for development of youth in the area, use radio as a tool or communication in voicing issues relevant to the community and to provide a technical training for the journalism students of IUST and youth of Awantipora area. With a full-fledged studio and equipment, the program also acts as a part of a complete and rigorous technical training regime of the University as far as broadcast journalism is concerned.

With the support from Ministry of Food Processing, Government of India, University has established Food Processing and Training Centre (FPTC) for training of educated unemployed youth of the state to facilitate them to start their own processing units in rural areas. This will also help entrepreneurs to improve their technological skills. Special training programmes are identified for rural women folk.





# ADMISSION GUIDELINES

Islamic University of Science & Technology (IUST) transparently admits the meritorious students from all the geographical regions of the UT of Jammu & Kashmir. IUST provides access to university education for all those who have the potential and commitment to excel. The University is committed to achieve such an educational and working environment which is in tune with a demanding global scenario. The University follows standard, fair, just and explicit procedures for the selection and admission of students. The application procedure is made more accessible and easily available to all the regions of the UT and Country by providing an online facility for the submission of applications by the aspiring candidates.

## **The instructions for online submission of Application Form are as follows:**

- ❖ Candidate must read Admission Notification, instructions, refund rules and other relevant guidelines carefully before filling the Application Form.
- ❖ Candidates are required to apply through online mode for admissions to a particular programme on IUST website [www.iust.ac.in](http://www.iust.ac.in). No other means/mode of application will be accepted.
- ❖ Candidate must ensure his/her eligibility as per the criteria laid down for admission to a particular programme.
- ❖ All relevant information / updates shall be uploaded on the university website [www.iust.ac.in](http://www.iust.ac.in) and notifying the same in Newspapers shall not be obligating on university part. The candidates are advised to remain in touch with the university website.

## **RULES FOR APPLICATION**

- ❖ Candidates may seek admission to such programmes of study which the University offers without prejudice to gender, region, race, religion, caste or creed.
- ❖ Candidates are required to go through the Admission Notification and Prospectus carefully and satisfy their eligibility for a particular programme before filling the ON-LINE Application Form.
- ❖ Candidates shall fill up the ON-LINE Application Form correctly as per the qualifying details. Any fraudulent information submitted thereof shall be the sole responsibility of the candidate.
- ❖ Candidate shall have to specifically mention his / her category in ON-LINE Application Form under which he/she is to be considered for selection. In case, a candidate is eligible to apply under more than one category, he/she has to necessarily opt only for one reserved category while applying in a particular programme. However, he/she may choose to opt for any other reserved category for another programme. Once a category is opted, no change shall be allowed later on under any circumstances.
- ❖ Candidates applying under any reserved category must attach/ upload relevant certificate(s). No under process certificate / application shall be entertained in this regard.
- ❖ Notification for applying under Self-Financing category/ NRI sponsored quota shall be issued separately.
- ❖ Candidates are allowed to submit only one ON-LINE Application Form for a particular programme. More than one application i.e. Multiple applications submitted by a candidate shall be rejected.

- ❖ The application form fee is Rs. 500/- for one programme. candidates opting for self-financing/ payment or NRI Sponsored quota as one of the choices shall have to pay an additional application fee of Rs. 500/- each respectively.

In case candidates applying for more than one programme, they shall have to pay an additional fee of Rs. 200/- (per programme) as application form fee. However, candidates opting for self-financing and NRI as one of the choices in additional programme shall have to pay the additional application fee as mentioned above.

- ❖ The name/ parentage/ registration no. of the candidate in the Application Form must be exactly the same as per class 10th / equivalent qualifying Examination certificate issued by the JKBOSE/CBSE or any such recognized authority. No prefix/title such as Mr/Shri/Fr/Dr/ Mrs/Smt/ Col etc. should be used.
- ❖ Application fee once paid will not be refunded (full or partial) under any circumstances.
- ❖ Once the online registration is over, University will open the correction window for some days to update online application form/ Change of preferences or any other update.
- ❖ The candidature of the candidates who do not possess eligibility criteria notified shall be rejected without any notice.
- ❖ Make judicious use of web service, in case of any immoral content is uploaded on online application form, strict action under rules will be initiated by the university.
- ❖ The candidates are advised to check the Application Form Status by using the login id and password and clicking on tab "Application Form Status".
- ❖ No change will be accepted through offline mode i.e. through fax/application etc.
- ❖ Entrance Tests (if any) will be conducted at the University campus only.
- ❖ Admissions to various programmes shall be strictly provisional. If it is found, at any stage, that a candidate does not fulfil the eligibility requirements or has used fraudulent means or has made a false or incorrect statement he/she shall not be allowed to complete the admission formalities or in case already admitted, his/her admission shall be cancelled at any point of time.
- ❖ Efforts shall be made to make the Admission Process error free. However, any inadvertent error in processing, verification of certificates / documents and declaration of result / compilation of selection list shall be corrected as soon as detected and the university reserves the right to cancel the admission of ineligible candidates at any stage.
- ❖ Detailed schedule of the Entrance Tests (IF ANY) shall be notified separately.

### **UPGRADATION FROM SELF FINANCING/ NRI SPONSORED QUOTA TO GENERAL/ SELF FINANCING CATEGORY**

In case a candidate already admitted under Self Financing/ NRI Sponsored Seat is subsequently selected in General/ Self Financing category in view of his/ her merit & preference (if applicable) and involves change of allotted stream, he/she will have to give in writing his/her consent within the stipulated time of the selection/ upgradation notification. The Self Financing/ NRI seat fee shall be refunded accordingly as per university rules. In case of no response received from the candidate within the stipulated period, it will be construed that the candidate desires no change in his/her category of selection and no claim in this regard will be entertained thereafter for whatsoever reasons.

***Note: There shall be no upgradation/ Selection once the admissions are declared closed.***



## PROGRAMMES OFFERED/ ELIGIBILITY

Post-Graduate Programmes	Eligibility
<b>M.Sc. Statistics</b>	Bachelor's Degree with a minimum of 45% marks from a recognized University/ Institution with Mathematics/ Statistics/ Applied Mathematics as one of the core subjects in at least 04 semesters/ 02 Years at UG level OR B.Sc. Actuarial and Financial Mathematics.
<b>Master of Computer Applications – MCA (2-Year)</b>	Having passed BCA OR Bachelor's Degree in Computer Science & Engineering OR B.Sc./ B.Com./ B.A. with Mathematics as compulsory subject at 10+2 Level/ at Graduation Level with a minimum of 50% marks from a recognized University/ Institution.
<b>Master of Science in Information Technology (M.Sc. IT)</b>	Degree with a minimum of 45% marks from a recognized University/ Institution in any of the following: Bachelor's Degree in Relevant subject OR B.Sc. having Mathematics as one of the subjects at 10+2 level OR B.Sc. having Mathematics/ Physics/ Computer Science/ I.T. / or any relevant Computer related recognized subject as one of the subjects in at least 04 semesters/ 02 Years at UG level OR B. Tech./BE.
<b>M. Tech. Food Technology</b>	B. Tech. Food Technology with a minimum of 55% marks from a recognized University/ Institution.
<b>M. Tech. Artificial Intelligence</b>	B. Tech./ BE in any branch of Engineering <b>OR</b> MCA/ M. Sc. Information Technology/ M. Sc. Electronics or equivalent with a minimum of 60% marks.
<b>M.Sc. Chemistry</b>	Bachelor's Degree in Science with a minimum of 45% marks from a recognized University/ Institution with Chemistry as one of the subjects in at least 04 semesters/ 02 Years at UG level OR B.Sc. Hons Chemistry/ Industrial Chemistry OR B.E/B. Tech. Chemical Engineering.
<b>M.Sc. Physics</b>	Bachelor's Degree in Science with a minimum of 45% marks from a recognized University/ Institution with Physics and Mathematics as core subjects in at least 04 semesters/ 02 Years at UG level OR B.E/B. Tech (with Physics and Mathematics as subjects for at least two semesters/ one year) OR B.Sc. Hons Physics.
<b>Master of Business Administration (MBA)</b>	Bachelor's Degree in any discipline with a minimum of 50% marks from a recognized University/ Institution and a valid CMAT/ MAT score. Candidates, who do not possess CMAT/ MAT score, can also apply. The admission of such candidates shall be made as per the criteria shown in "Procedure for Selection".
<b>Master of Business Administration – International Business (MBA-IB)</b>	
<b>M.A. International Relations (Peace &amp; Conflict Studies)</b>	Bachelor's Degree in any discipline with a minimum of 45% marks from a recognized University/ Institution.
<b>M.A. Journalism &amp; Mass Communication</b>	
<b>M.A. Islamic Studies</b>	
<b>M. A Political Science</b>	Bachelor's Degree with a minimum of 45% marks from a recognized University/ Institution with Political Science as one of the subjects in at least 04 semesters/ 02 Years at UG level.
<b>M. A Philosophy</b>	Bachelor's Degree in any discipline with a minimum of 50% marks from a recognized University/ Institution.
<b>M.A. Arabic Language &amp; Literature</b>	Bachelor's Degree or equivalent with a minimum of 45% marks from a recognized University/ Institution with Arabic as one of the subjects in at least 04 semesters/ 02 Years at UG level OR having Aalimayat/ Fazilah degree with 10+2 of the approved Madrasas.

<b>M.A. English Language &amp; Literature</b>	Bachelor's Degree or equivalent with a minimum of 45% marks from a recognized University/ Institution with English Literature as one of the subjects in at least 04 semesters/ 02 Years at UG level OR B.A. Hons English.
<b>M.A. Economics</b>	Bachelor's Degree with a minimum of 45% marks from a recognized University/ Institution with Economics/ Mathematics/ Statistics as one of the subjects in at least 04 semesters/ 02 Years at UG level OR Four Years Engineering Degree OR Bachelor's Degree in Agricultural/ Horticultural OR Bachelor's Degree in Business Administration OR Bachelor's Degree in Commerce OR B.Sc. Actuarial and Financial Mathematics.
Under-Graduate Programmes	Eligibility
<b>B.Tech. Civil Engineering</b> <b>B.Tech. Computer Science &amp; Engineering</b> <b>B.Tech. Electrical Engineering</b> <b>B.Tech. Electronics &amp; Communication Engg</b> <b>B.Tech. Mechanical Engineering</b> <b>B.Tech. Robotics &amp; Automation</b>	<ul style="list-style-type: none"> <li>➤ Having passed 10+2 from the J&amp;K Board of School Education or from any other recognized board with Physics, Chemistry &amp; Mathematics as compulsory subjects. <b>AND</b></li> <li>➤ Having appeared in JEE Main (Paper-I) 2024.</li> </ul>
<b>B. Arch.</b>	<ul style="list-style-type: none"> <li>➤ Having passed 10+2 from the J&amp;K Board of School Education or from any other recognized board with Physics, Chemistry &amp; Mathematics as compulsory subjects OR Having passed 10+3 Diploma Examination with Mathematics as compulsory subject. <b>AND</b></li> </ul> <p>In addition to above, the candidates need to have qualified National Aptitude Test in Architecture (NATA)-2024 conducted by Council of Architecture OR Having appeared in JEE (Paper-2A) 2024.</p>
<b>B.Tech. Food Technology</b>	Having passed 10+2 from the J&K Board of School Education or from any other recognized board with Physics, Chemistry & Mathematics or Biology as compulsory subjects.
<b>B. Voc. (Medical Lab &amp; Molecular Diagnostic Technology)</b>	Having passed 10+2 with a minimum of 45% marks from the J&K Board of School Education or from any other recognized board with Physics, Chemistry & Biology as compulsory subjects.
<b>B. Voc. (Operation Theatre Technology)</b>	
<b>B.Sc. Mathematical Sciences (Four Year Undergraduate Programme)</b>	Having passed 10+2 with a minimum of 45% marks from the J&K Board of School Education or from any other recognized board with Mathematics as compulsory subject.
<b>B.Sc. Computer Science (Four Year Undergraduate Programme)</b>	Having passed 10+2 with a minimum of 50% marks from the J&K Board of School Education or from any other recognized board.
<b>B.A. English (Four Year Undergraduate Programme)</b>	Having passed 10+2 with a minimum of 45% marks from the J&K Board of School Education or from any other recognized board.
<b>B.A. Islamic Studies (Four Year Undergraduate Programme)</b>	Having passed 10+2 with a minimum of 45% marks from the J&K Board of School Education or from any other recognized board.
<b>BS (Four Year Undergraduate Programme) through Design your Degree (DYOD)</b>	Having passed 10+2 with a minimum of 50% marks from the J&K Board of School Education or from any other recognized board.
<b>B. Sc. Physics (Four Year Undergraduate Programme)</b>	Having passed 10+2 with a minimum of 55% marks with Physics and Mathematics as subjects from JKBOSE or from any other recognized board.



<b>B. Sc. Chemistry (Four Year Undergraduate Programme)</b>	Having passed 10+2 with a minimum of 55% marks with Chemistry as one of the subject from JKBOSE or from any other recognized board.
<b>B. A Journalism &amp; Mass Communication (Four Year Undergraduate Programme)</b>	Having passed 10+2 with a minimum of 50% marks from the J&K Board of School Education or from any other recognized board.
<b>B. Sc. Economics (Four Year Undergraduate Programme)</b>	Having passed 10+2 with a minimum of 50% marks from the J&K Board of School Education or from any other recognized board.
<b>B. A. Arabic Language &amp; Literature (Four Year Undergraduate Programme)</b>	Having passed 10+2 with a minimum of 45% marks from the J&K Board of School Education or from any other recognized board.
<b>Integrated Programmes</b>	<b>Eligibility</b>
<b>MBA (5-Year Integrated)</b>	Having passed 10+2 with a minimum of 50% marks from the J&K Board of School Education or from any other recognized board.
<b>Three Year Polytechnic Programmes</b>	<b>Eligibility</b>
<b>Diploma Civil Engineering Diploma Electrical Engineering Diploma Mechanical Engineering</b>	Having passed 10th class or equivalent examination with a minimum of 35% marks with Science and Mathematics as compulsory subjects.
<b>Lateral-Entry Programmes</b>	<b>Eligibility</b>
<b>B. Tech. in Civil Engineering B. Tech. in Electrical Engineering B. Tech. in Electronics &amp; Communication Engineering B. Tech. in Computer Science &amp; Engineering B. Tech. in Mechanical Engineering B.Tech. in Food Technology</b>	Passed Minimum 3 years / 2 years (Lateral Entry) Diploma examination with at least 45% marks in ANY BRANCH of Engineering and Technology. OR Passed B.Sc. Degree from a recognized University as defined by UGC, with at least 45% marks and passed 10+2 examination with Mathematics as a subject. OR Passed D. Voc. Stream in the same or allied sector. (The University shall offer suitable bridge courses such as Mathematics, physics, Engineering drawing, etc., for the students coming from diverse backgrounds to achieve desired-learning outcomes of the programme). Note: B. Voc. course is treated at par with Diploma in Engineering and B. Sc. Degree for the purpose of admission in B. Tech./BE Programme through Lateral Entry.
<b>Diploma in Civil Engineering Diploma in Electrical Engineering Diploma in Mechanical Engineering</b>	10th+ (2 years ITI) shall be eligible for admission to Second Year Diploma Course(s) in ANY BRANCH of Engineering and Technology. (The University shall offer suitable bridge courses such as Mathematics, Physics, Engineering drawing, etc., for the students coming from diverse backgrounds to achieve desired learning outcomes of the programme) OR Passed 10+2 examination with any of the three subjects (Physics/ Mathematics / Chemistry/ Computer Science/ Electronics/ Information Technology/ Biology/ Informatics Practices/ Biotechnology/ Technical Vocational subject/ Agriculture/ Engineering Graphics/ Business Studies/ Entrepreneurship).
<b>B.TECH. (LATERAL ENTRY) PROGRAMMES FOR WORKING PROFESSIONALS</b>	<b>Eligibility</b>
<b>B. Tech. Civil Engineering B. Tech. Electrical Engineering B. Tech. Electronics &amp; Communication Engineering</b>	Passed Minimum 3 years / 2 years (Lateral Entry) Diploma examination with at least 45% marks in ANY BRANCH of Engineering and Technology <b>OR</b> Passed B.Sc. Degree from a recognized University as defined by UGC, with at least 45% marks and passed 10+2 examination with Mathematics as a subject. <b>AND</b> Be a Professional working in Registered Industry/ Organization (Central/State)/ Private/ Public Limited Company/ MSMEs with a Minimum of 01-year full time/ Regular Working Experience.

There shall be 5% relaxation in minimum percentage of marks required for eligibility in case of reserved categories for all the programmes.

## RESERVATION OF SEATS 2024

## RESERVATION BREAKUP

NAME OF THE CATEGORY	CATEGORY CODES	SHARE	ISSUING AUTHORITY
Scheduled Caste	SC	8%	Concerned Tehsildar
Scheduled Tribe	ST1 & ST2	10% + 10%	Concerned Tehsildar
Weak and Under Privileged Classes (Social Castes)	WUPSC	8%	Concerned Tehsildar
Residents of Area Adjoining Actual Line of Control / International Border (IB)	ALC/IB	4%	Concerned Tehsildar
Residents of Backward Areas	RBA	10%	Concerned Tehsildar
Physically Challenged Persons*	PCP	4% (Horizontal)*	Authorized Medical Board
Children of Defence Personnel	CDPP	1% (Horizontal)*	Commanding Officer of Unit Zila Sainik Welfare Officer or DIG concerned, respectively.
Children of Para Military Forces and UT Police Personnel		1% (Horizontal)*	
Candidates Possessing Outstanding Proficiency in Sports	SP	1% (Horizontal)*	Secretary J & K Sports Council
<b>TOTAL</b>		<b>50% (7% (Horizontal))</b>	
<b>Supernumerary Seats (SNQ)</b>			
Economically Weaker Sections	EWS	10% (including 5% of TFW)	Concerned Tehsildar
Outside UT	OUT	5%	
Foreign National (through ICCR)	FN	5%	Embassy concerned
<b>TOTAL</b>		<b>20%</b>	

TFW: TUITION FEE WAIVER SCHEME OF IUSTR

ST1: Bakarwal/ Balti/ Beda/ Bot, Boto/ Brokpa/ Drokpa/ Dard, Shin/ Changpa/ Garra/ Gaddi/ Gujjar/ Mon/ Purigpa/ Sippi (Existing list as per the Constitution (J&amp;K) Scheduled Tribe Order, 1989 and the Constitution (Scheduled Tribes) Order (Amendment) Act, 1991.

ST2: Gadda Brahmin/ Koli/ Paddari Tribe/ Pahari Ethnic Group (added vide the Constitution (J&amp;K) Scheduled Tribe Order (Amendment) Act, 2024.



- **Horizontal Reservation:** Horizontal reservation means the reservation which would cut across the vertical reservation (what is called interlocking reservation) and the person selected against the quota will have to be placed in the appropriate category viz. if he/she belongs to the scheduled caste category, he/she will be placed in that quota by making the necessary adjustment and similarly, if he/she belongs to the open competition category, he/she will be placed in that category.

## ADDITIONAL SUPERNUMERARY SEATS

- **IUST INTERNAL QUOTA (IQ):** 02 seats in all the Postgraduate programmes and 03 seats in B.Tech. Engineering (Lateral Entry) programmes shall be reserved for the candidates who have passed their qualifying degrees from IUST.
- **IUST Employee Quota (EQ):** 01 seat in each programme (except for Basic B.Sc. Nursing and B. Arch), shall be reserved for the children of permanent Employees of IUST.
- **LAND OWNER'S QUOTA:** 01 seat in each programme, shall be reserved for the children of locals whose land will be acquired by the University. The reservation shall be limited to one child per family from whom a minimum of one kanal of land has been acquired.
- **NON-RESIDENT INDIAN SPONSORED QUOTA (NRI):** Seats under NRI Sponsored Quota shall be Supernumerary in nature except for B.Tech. Engineering and other AICTE approved programmes.

## ECONOMICALLY WEAKER SECTION (EWS) / TUITION FEE WAIVER (TFW)

**Economically Weaker Section (EWS)/ Tuition Fee Waiver (TFW):** A candidate claiming benefits under the Economically Weaker Section (EWS)/ Tuition Fee Waiver (TFW) must establish that his family has gross annual income below Rs. 8.00 lakh (Rupees eight lakh only), provided that persons whose family owns or possesses any of the following assets shall be excluded from being identified as EWS/ TFW irrespective of the family income: -

- 5 acres of agricultural land and above
- Residential flat of 1000 sq. Ft. and above
- Residential plot of 100 sq. yards and above in notified municipalities
- Residential plot of 200 sq. yards and above in areas other than the notified municipalities

**Explanation:** Income shall include income from all sources i.e. salary, agriculture, business profession etc. for the financial year prior to the year of application.

### Requirements / Eligibility / Admission Procedure:

- ❖ EWS is a subcategory for candidates belonging to the Economy Based Un-Reserved Category, who do not belong to any category such as SC/ST/OBC. A candidate who does not fall under SC/ST/OBC and fulfils the EWS economic criteria fall in the EWS category.
- ❖ The candidates whose parental annual income will be less than ₹. 8.0 lakhs and does not possess other assets shall only be eligible to apply under Economically Weaker Section (EWS) / Tuition Fee Waiver (TFW). In this regard a certificate from concerned Tehsildar regarding income & assets certificate needs to be produced by Economically Weaker Section (EWS) as per the J&K reservation rules at the time of submission of the application form.
- ❖ There shall be a reservation of 10% of "Approved Intake" (including 5% of TFW) per course available for admission under EWS/ TFW. These seats shall be supernumerary in nature.
- ❖ 5% of TFW (supernumerary seats) shall be available only to such Course(s), where a minimum of 50% of "Approved Intake" is filled up/ admitted.
- ❖ The waiver in TFW scheme is limited to the tuition fee only. All other fees except tuition fee will have to be paid by the beneficiary.
- ❖ In the event of non-availability of the candidates in EWS/ TFW quota, such no. of seats shall not be allotted to any other category of applicants.
- ❖ The University shall make a separate merit list for these categories and effect admissions based on the general merit list so generated.
- ❖ Only one candidate from a particular family shall be eligible to avail the benefit of Tuition Fee Waiver (TFW) Scheme.
- ❖ The selection under TFW scheme shall be based on the total merit obtained by the student at the time of his/her admission.
- ❖ Students admitted under TFW scheme shall not be allowed to change Institution/Course/Branch under any circumstances.
- ❖ A letter in this respect shall be issued by the University for admission to each beneficiary student admitted under this scheme.





## DISTRIBUTION OF SEATS

The distribution of seats for all categories (in all programmes) shall be determined by the following method:

- A seat matrix detailing the weightage attached to each category as per the reservation policy shall be prepared.*
- At the first instance, seat(s) shall be allotted as per the whole number attached to each category. Fractional part attached to each category shall be ignored here.*
- In case the fractional part attached to the open merit quota and/or to any other reserved category is  $\geq 0.5$ , one full seat shall be allotted to that particular category subject to the condition that the allotted seats do not exceed the intake capacity. In that case, the seat(s) shall be allotted by clubbing together the category/ies having fractional part  $\geq 0.5$  and the seat shall be allotted to the category/ies as per the relative merit position of candidates competing for admission against these categories, followed by the remaining category/ies having 2<sup>nd</sup> relative merit position of candidates competing for admission against these categories and so on. All such seats are subject to the condition that not more than one seat is allotted to a fraction attached to the particular category.*
- In case seat (s) remain vacant after allotting the seats as per b) and c) above, such vacant seats shall be allotted by clubbing together the category/ies having fractional part of  $< 0.5$  who have not been allotted seat(s) and the seat shall be allotted to the category/ies as per the relative merit position of candidates competing for admission against these categories, followed by the remaining category/ies having 2<sup>nd</sup> relative merit position of candidates competing for admission against these categories and so on. All such seats are subject to the condition that not more than one seat is allotted to a fraction attached to the particular category.*
- In case there is non-availability of candidate(s) to fill seats under a particular reserved/ Self-Financing category, such seat(s) shall be shifted to open merit quota.*

**Note:** *If a candidate's merit (selected under reserved category) falls under the open merit category, the selection of the candidate /s shall automatically be considered under open merit.*

## RESOLUTION OF TIE

In case of two or more candidates having secured equal points/merit for admission to a particular programme, the inter-se merit shall be determined in order of preference as follows:

### For B.Tech. Engineering (CIVIL, ECE, EE, CSE, ME) Programmes

- Candidates having higher marks in JEE Main (paper I).
- Candidate having higher marks in Mathematics in the JEE Main (Paper-I).
- Candidate having higher marks in Physics in the JEE Main (Paper-I).
- Candidate having higher marks in Chemistry in the JEE Main (Paper-I).
- Candidates having higher marks in the qualifying examination
- Candidate older in age to be preferred if marks at (i), (ii), (iii), (iv) & (v) above are also equal.

### For All other Programme Programmes

- Candidates having higher marks in CUET/ CMAT-MAT/NATA-JEE Paper 2A/GATE/ University Entrance Test. (as applicable).
- Candidates having higher marks in the qualifying examination.
- Candidate older in age to be preferred if marks at (i) & (ii) above are also equal.

## PROCEDURE FOR SELECTION

Programme (s)	Procedure for Selection
M. Tech. Artificial Intelligence	Based on the Candidates performance in the GATE Examination
M. A Philosophy	Based on CUET PG 2024 Score, Test Paper Code ( <b>HUQP16</b> ) or ( <b>COQP11</b> ), However, first preference shall be given to ( <b>HUQP16</b> ) candidates.
M.Sc. Statistics	Based on CUET PG 2024 Score, Test Paper Code ( <b>SCQP27</b> )
Master of Computer Applications (MCA) 2-Years	
Master of Science in Information Technology (M.Sc. IT)	Based on CUET PG 2024 Score, Test Paper Code ( <b>SCQP09</b> )
M. Tech. Food Technology	Based on CUET PG 2024 Score, Test Paper Code ( <b>MTQP06</b> )
M.Sc. Chemistry	Based on CUET PG 2024 Score, Test Paper Code ( <b>SCQP08</b> )
M.Sc. Physics	Based on CUET PG 2024 Score, Test Paper Code ( <b>SCQP24</b> )
M.A. International Relations (Peace & Conflict Studies)/ M. A Political Science	Based on CUET PG 2024 Score, Test Paper Code ( <b>HUQP18</b> )
M.A. Journalism & Mass Communication	Based on CUET PG 2024 Score, Test Paper Code ( <b>COQP17</b> )
M.A. Islamic Studies	Based on CUET PG 2024 Score, Test Paper Code ( <b>COQP11</b> )
M.A. Arabic Language & Literature	Based on CUET PG 2024 Score, Test Paper Code ( <b>LAQP05</b> )
M.A. English Language & Literature	Based on CUET PG 2024 Score, Test Paper Code ( <b>LAQP01</b> )
M.A. Economics	Based on CUET PG 2024 Score, Test Paper Code ( <b>COQP10</b> )
B.TECH. ENGINEERING Civil/ Computer Science/ Electrical/ Electronics & Communication/ Mechanical/ Robotics & Automation	Based on candidate's performance in the JEE Main (Paper-I) 2024 only. (Session-1 January 2024 or Session-2 April 2024)
B. Arch.	Based on qualified candidate's performance in the NATA-2024/ JEE (Paper-2A) 2024. However, first preference shall be given to NATA 2024 candidates.
MBA/ MBA-IB	The selection shall be governed in order of preference as follows: 1. CMAT 2024 2. MAT 2024 3. CUET-PG (COQP12) 2024
B. Tech. Food Technology	Based on CUET UG 2024 BIOLOGY/ BIOLOGICAL STUDIES/ BIOTECHNOLOGY/ BIOCHEMISTRY, MATHEMATICS/ APPLIED MATHEMATICS Subject Score.
B. Voc. (Medical Lab & Molecular Diagnostic Technology)	
B. Voc. (Operation Theatre Technology)	Based on CUET UG 2024 BIOLOGY/ BIOLOGICAL STUDIES/ BIOTECHNOLOGY/ BIOCHEMISTRY Subject Score.
B. Sc. Mathematical Sciences (FYUGP)	Based on CUET UG 2024 MATHEMATICS/ APPLIED MATHEMATICS Subject Score
B. Sc. Computer Science (FYUGP)	Based on CUET UG 2024 COMPUTER SCIENCE/ INFORMATICS PRACTICES Subject Score.
B.A. English (FYUGP)	Based on CUET UG 2024 ENGLISH Subject Score
BS Design your Degree (DYoD) (FYUGP)	
B. A. Islamic Studies (FYUGP)	Based on CUET UG 2024 GENERAL TEST Score
MBA (5-Year Integrated)	
B. Sc. Physics (FYUGP)	The selection shall be governed in order of preference as follows: 1. CUET UG 2024 (PHYSICS) 2. CUET UG 2024 (GENERAL TEST)
B. Sc. Chemistry (FYUGP)	The selection shall be governed in order of preference as follows: 1. CUET UG 2024 (CHEMISTRY) 2. CUET UG 2024 (GENERAL TEST)
B. A Journalism & Mass Communication (FYUGP)	The selection shall be governed in order of preference as follows: 1. CUET UG 2024 (MASS MEDIA/ MASS COMMUNICATION) 2. CUET UG 2024 (GENERAL TEST)
B. Sc. Economics (FYUGP)	The selection shall be governed in order of preference as follows: 1. CUET UG 2024 (ECONOMICS/ BUSINESS ECONOMICS) 2. CUET UG 2024 (GENERAL TEST)
B. A. Arabic Language & Literature (FYUGP)	Based on CUET UG 2024 ARABIC Subject Score.
DIPLOMA ENGINEERING: Civil/ Electrical/ Mechanical	
B.TECH. (LATERAL ENTRY): Civil/ Computer Science/ Electrical/ Electronics & Communication/ Mechanical/ Food Technology DIPLOMA (LATERAL ENTRY): Civil/ Electrical/ Mechanical	Based on candidate's performance in the University Entrance Test.
B. Sc. Nursing	The admission shall be made through the Board of Professional Entrance Examinations (J&K BOPEE).
MBA/ MBA-IB	Based on the candidate's performance in the CMAT/MAT/CUET-PG (2024). However, the order of preference for selection shall be 1. CMAT 2. MAT 3. CUET-PG 2024.

**NOTE:** The candidates who have not appeared in CUET (UG)-2024/ CUET (PG)-2024/ CMAT/ MAT 2024 / GATE can also apply online for admission at IUST, however, first preference shall be given to CUET (UG)-2024/ CUET (PG)-2024/ CMAT/ MAT 2024 / GATE candidates. The selection for the vacant/ remaining seats shall be made on the basis of University Entrance Test or percentage of marks in the qualifying examination which shall be decided later.



## INTAKE CAPACITY

PROGRAMME (s)	General Seats	Payment Seats	NRI Sponsored	Total Seats
B. Tech Civil Engineering	45	13	02	60
B. Tech Electronics & Comm. Engineering	45	13	02	60
B. Tech Computer Science & Engineering	60	40	20	120
B. Tech Mechanical Engineering	45	13	02	60
B. Tech Electrical Engineering	45	13	02	60
B. Tech Robotics & Automation	24	04	02	30
B. Tech Food Technology	45	13	02	60
B.Tech. Engineering / Food Technology (Lateral Entry) Per Branch	04	02	-	06
B.Tech. Engg. for Working Professionals (Civil/ Electrical/ Electronics & Communication) - Lateral Entry	24	06	-	30
B. Arch.	33	07	-	40
BS Design your Own Degree (DYoD) Four Year Undergraduate Programme	24	06	02	32
B.Sc. Mathematical Sciences (Four Year Undergraduate Programme)	24	06	05	35
B.Sc. Computer Science (Four Year Undergraduate Programme)	24	06	02	32
B.Sc. Physics (Four Year Undergraduate Programme)	25	05	02	32
B.Sc. Chemistry (Four Year Undergraduate Programme)	25	05	02	32
B. Voc. (Medical Lab & Molecular Diagnostic Technology)	24	16	-	40
B. Voc. (Operation Theatre Technology)	24	16	-	40
B.A. English (Four Year Undergraduate Programme)	40	10	05	55
B.A. Journalism & Mass Communication (Four Year Undergraduate Programme)	30	05	02	37
B.Sc. Economics (Four Year Undergraduate Programme)	45	15	02	62
B.A. Islamic Studies (Four Year Undergraduate Programme)	33	07	02	42
B.A. Arabic Language & Literature (Four Year Undergraduate Programme)	24	06	02	32
MBA (5 Year Integrated)	40	15	05	60
B.Sc. Nursing (Syed Mantaqi Memorial College of Nursing & Medical Technology, Awantipora)	45	15	Nil	60
B.Sc. Nursing (Alamdard Memorial College of Nursing & Medical Technology, Charar-i-Sharief)	30	10	Nil	40
Master of Business Administration (MBA)	40	08	02	50
Master of Business Administration-International Business (MBA-IB)	24	04	02	30
M.A. Economics	24	06	02	32
M.Sc. Physics	24	06	02	32
M.Sc. Chemistry	24	06	02	32

<b>M.Sc. Statistics</b>	<b>15</b>	<b>05</b>	<b>02</b>	<b>22</b>
<b>Master of Computer Application (MCA) (2-Year)</b>	<b>45</b>	<b>13</b>	<b>02</b>	<b>60</b>
<b>M.Sc. Information Technology</b>	<b>15</b>	<b>05</b>	<b>02</b>	<b>22</b>
<b>M.Tech Food Technology</b>	<b>10</b>	<b>04</b>	<b>01</b>	<b>15</b>
<b>M.Tech Artificial Intelligence</b>	<b>25</b>	<b>05</b>	<b>02</b>	<b>32</b>
<b>M.A. Arabic Language and Literature</b>	<b>37</b>	<b>08</b>	<b>02</b>	<b>47</b>
<b>M.A. English Language and Literature</b>	<b>33</b>	<b>07</b>	<b>02</b>	<b>42</b>
<b>M.A. Islamic Studies</b>	<b>37</b>	<b>08</b>	<b>02</b>	<b>47</b>
<b>M.A. Journalism &amp; Mass Communication</b>	<b>20</b>	<b>05</b>	<b>02</b>	<b>27</b>
<b>M.A. International Relations (Peace &amp; Conflict Studies)</b>	<b>20</b>	<b>05</b>	<b>02</b>	<b>27</b>
<b>M.A. Political Science</b>	<b>24</b>	<b>06</b>	<b>02</b>	<b>32</b>
<b>M.A. Philosophy</b>	<b>20</b>	<b>05</b>	<b>02</b>	<b>27</b>
<b>Diploma Civil Engineering</b>	<b>40</b>	<b>18</b>	<b>02</b>	<b>60</b>
<b>Diploma Electrical Engineering</b>	<b>40</b>	<b>18</b>	<b>02</b>	<b>60</b>
<b>Diploma Mechanical Engineering</b>	<b>40</b>	<b>18</b>	<b>02</b>	<b>60</b>
<b>Diploma Engineering (Lateral Entry) Per Branch</b>	<b>04</b>	<b>02</b>	<b>Nil</b>	<b>06</b>
<b>Ph. D. in Management Studies/ Ph. D. in Economics/ Ph. D. in Computer Science &amp; Engineering/ Ph. D. in Electronics &amp; Comm. Engineering/ Ph. D. in Mechanical Engineering/ Ph. D. in Electrical Engineering/ Ph. D. in Civil Engineering/ Ph. D. in Food Technology/ Ph. D. in Computer Science/ Ph. D. in English Language &amp; Literature/ Ph. D. in Arabic Language &amp; Literature/ Ph. D. in Kashmiri Language &amp; Literature/ Ph. D. in Spiritual Studies/ Ph. D. in Philosophical Studies/ Ph. D. in Islamic Studies/ Ph. D. in Journalism &amp; Mass Communication/ Ph. D. in International Relations/Political Science/ Ph. D. in Physics/ Ph. D. in Chemistry/ Ph. D. in Mathematics/ Ph. D. in Statistics/ Ph. D. in Molecular Medicine</b>				<b>As per the availability of seats/ supervisors in the Concerned Department / Centre/ School</b>

- Seats under NRI sponsored quota shall be supernumerary in nature except for B.Tech. and other AICTE approved programmes.
- Vacancies, if any, arising out of non-availability of candidates under NRI sponsored quota in case of (MBA-5 Year Integrated/ B.Tech. Engineering/ B. Tech. Food Technology/ MBA/ MBA (IB)/ MCA/ Diploma) Programmes shall be shifted to Self-financing category.



## FEE STRUCTURE & OTHER DETAILS

PROGRAMME (S)	PER SEMESTER TUITION FEE (Rs.)	ONE TIME FEE (Rs.)		TOTAL	*PAYMENT/ SF SEAT FEE	*NRI SPONSORED (FEE RS.)
		SECURITY DEPOSIT	ADMISSION FEE			
B.TECH. ENGINEERING	31,000	2,000	2,200	35,200	2,00,000	5,00,000
B.TECH. FOOD TECHNOLOGY	31,000	2,000	2,200	35,200	1,20,000	2,50,000
B.TECH. ENGINEERING (LATERAL ENTRY)/ WORKING PROFESSIONALS	31,000	2,000	2,200	35,200	1,50,000	-
B. ARCH.	31,000	2,000	2,200	35,200	2,00,000	5,00,000
BS DESIGN YOUR OWN DEGREE (DYoD) FOUR YEAR UNDERGRADUATE PROGRAMME	30,000	2,000	2,200	34,200	60,000	90,000
B.SC. MATHEMATICAL SCIENCES (FOUR YEAR UNDERGRADUATE PROGRAMME)	16,000	2,000	2,200	20,200	50,000	2,00,000
B.SC. COMPUTER SCIENCE (FOUR YEAR UNDERGRADUATE PROGRAMME)	15,000	2,000	2,200	19,200	50,000	1,00,000
B.SC. PHYSICS (FOUR YEAR UNDERGRADUATE PROGRAMME)	20,000	2,000	2,200	24,200	50,000	1,00,000
B.SC. CHEMISTRY (FOUR YEAR UNDERGRADUATE PROGRAMME)	20,000	2,000	2,200	24,200	50,000	1,00,000
B. VOCATIONAL (MEDICAL LAB & MOLECUAR DIAGNOSTIC TECHNOLOGY*	20,000	2,000	2,200	24,200	60,000	-
B. VOC. (OPERATION THEATRE TECHNOLOGY)*	20,000	2,000	2,200	24,200	60,000	-
B.A. ENGLISH (FOUR YEAR UNDERGRADUATE PROGRAMME)	16,000	2,000	2,200	20,200	1,00,000	2,00,000
B.A. JOURNALISM & MASS COMMUNICATION (FOUR YEAR UNDERGRADUATE PROGRAMME)	15,000	2,000	2,200	19,200	50,000	1,00,000
B.SC. ECONOMICS (FOUR YEAR UNDERGRADUATE PROGRAMME)	15,000	2,000	2,200	19,200	50,000	1,00,000
B.A. ISLAMIC STUDIES (FOUR YEAR UNDERGRADUATE PROGRAMME)	12,000	2,000	2,200	16,200	50,000	1,00,000
B.A. ARABIC LANGUAGE & LITERATURE (FOUR YEAR UNDERGRADUATE PROGRAMME)	12,000	2,000	2,200	16,200	50,000	1,00,000
MBA (5-YEAR INTEGRATED)*	25,000 (1-6 semesters) 31,000 (7-10 semesters)	2,000	2,200	29,200	1,50,000	2,50,000
B.SC. NURSING	35,000	2,000	2,200	39,200	1,50,000	-
MASTER OF BUSINESS ADMINISTRATION*	31,000	2,000	2,200	35,200	1,50,000	2,50,000
MASTER OF BUSINESS ADMINISTRATION-INTERNATIONAL BUSINESS (MBA-IB) *	31,000	2,000	2,200	35,200	1,50,000	2,50,000
M.A. ECONOMICS	15,000	2,000	2,200	19,200	40,000	60,000
M.SC. PHYSICS	31,000	2,000	2,200	35,200	1,00,000	1,50,000
M.SC. CHEMISTRY	31,000	2,000	2,200	35,200	1,00,000	1,50,000
M.SC. STATISTICS	15,000	2,000	2,200	19,200	50,000	2,00,000
MASTER OF COMPUTER APPLICATION (MCA)*	20,000	2,000	2,200	24,200	1,50,000	2,00,000
M.SC. INFORMATION TECHNOLOGY*	20,000	2,000	2,200	24,200	1,50,000	2,00,000
M.TECH. FOOD TECHNOLOGY	31,000	2,000	2,200	35,200	2,00,000	3,00,000
M.TECH. ARTIFICIAL INTELLIGENCE	31,000	2,000	2,200	35,200	2,00,000	3,00,000
M.A. ARABIC LANGUAGE & LITERATURE	12,000	2,000	2,200	16,200	30,000	45,000

M.A. ENGLISH LANGUAGE & LITERATURE	15,000	2,000	2,200	19,200	40,000	60,000
M.A. ISLAMIC STUDIES	12,000	2,000	2,200	16,200	30,000	45,000
M.A. JOURNALISM & MASS COMMUNICATION	20,000	2,000	2,200	24,200	75,000	1,00,000
M.A. INTERNATIONAL RELATIONS (PEACE & CONFLICT STUDIES)	15,000	2,000	2,200	19,200	40,000	60,000
M.A POLITICAL SCIENCE	15,000	2,000	2,200	19,200	40,000	60,000
M.A PHILOSOPHY	20,000	2,000	2,200	24,200	75,000	1,00,000
ENGINEERING DIPLOMA COURSES	2,130 (1-2 semesters) & 1,930 (3-6 semesters)				9,400 Per Semester	1,50,000
DIPLOMA ENGINEERING (LATERAL ENTRY)	1,930	-	-	1,930	9,400 Per Semester	1,50,000
PH. D. PROGRAMMES	Registration Fee (One Time) School of Business Studies/School of Humanities & Social Sciences = 25,000 School of Engineering & Technology/ School of Sciences/ School of Health Sciences = 28,000 Security Deposit = 2,000 (Refundable) & Admission Fee = 3,000 (One Time)					

- \*The Fee under Payment/Self Financing seat (except for Engineering Diploma Courses) and NRI sponsored quota is a one-time fee, which is, over and above the Semester Fee to be paid at the time of admission.
- \*The Training/ Tour fee if any for relevant Programme shall be determined at the time of undertaking the Training/ Tour and has to be deposited separately.



## ADMISSION TO B.TECH./ DIPLOMA (LATERAL ENTRY)

The University has a provision for lateral Entry Admissions to Second Year B.Tech. Engineering / Diploma Engineering and B.Tech. Food Technology programmes, which are permissible up to a maximum of 10% of the "Approved Intake" which shall be over and above, supernumerary to the "Approved Intake", plus the unfilled vacancies of the First year.

The admission under Lateral Entry is available in the following programmes:

<b>B.Tech. Civil Engineering</b>	<b>B.Tech. Computer Science &amp; Engineering</b>	<b>B.Tech. Electrical Engineering</b>	<b>B.Tech. Electronics &amp; Communication Engineering</b>	<b>B.Tech. Mechanical Engineering</b>
<b>B.Tech. Food Technology</b>	<b>Diploma Civil Engineering</b>	<b>Diploma Electrical Engineering</b>	<b>Diploma Mechanical Engineering</b>	*

### DURATION:

**B.Tech. Engineering/ Food Technology (Lateral Entry):** 03 years (06 Semesters)

**Diploma Engineering (Lateral Entry):** 02 years (04 Semesters)

### WHO CAN APPLY?

#### **B.Tech. Engineering/ Food Technology (Lateral Entry):**

*Passed Minimum 3 years / 2 years (Lateral Entry) Diploma examination with at least 45% marks (40% marks in case of candidates belonging to reserved category SC/ST) in ANY BRANCH of Engineering and Technology. OR Passed B.Sc. Degree from a recognized University as defined by UGC, with at least 45% marks (40% marks in case of candidates belonging to reserved category SC/ST) and passed 10+2 examination with Mathematics as a subject. OR Passed D.Voc. Stream in the same or allied sector. (The University shall offer suitable bridge courses such as Mathematics, physics, Engineering drawing, etc., for the students coming from diverse backgrounds to achieve desired-learning outcomes of the programme). Note: B.Voc. course is treated at par with Diploma in Engineering and B. Sc. Degree for the purpose of admission in B. Tech./BE Programme through Lateral Entry.*

#### **Diploma Engineering (Lateral Entry):**

*10th + (2 years ITI) shall be eligible for admission to Second Year Diploma Course(s) in ANY branch of Engineering and Technology. (The University shall offer suitable bridge courses such as Mathematics, Physics, Engineering drawing, etc., for the students coming from diverse backgrounds to achieve desired learning outcomes of the programme) OR Passed 10+2 examination with any of the three subjects (Physics/ Mathematics / Chemistry/ Computer Science/ Electronics/ Information Technology/ Biology/ Informatics Practices/ Biotechnology/ Technical Vocational subject/ Agriculture/ Engineering Graphics/ Business Studies/ Entrepreneurship).*

## ADMISSION TO B.TECH. ENGINEERING (LATERAL ENTRY) FOR WORKING PROFESSIONALS

AICTE's introduction of B.Tech. programs for working professionals marks a significant stride in higher education accessibility and relevance. Tailored to accommodate the demanding schedules of working individuals, these programs offer flexibility without compromising academic rigor. By bridging the gap between theoretical knowledge and practical application, AICTE empowers professionals to enhance their skill sets, advance their careers, and contribute more effectively to their respective industries. This initiative not only promotes lifelong learning but also strengthens the workforce by producing well-rounded, industry-ready professionals capable of driving innovation and economic growth.

The admission is available in the following programmes:

<b>B.Tech. Civil Engineering</b>	<b>B.Tech. Electrical Engineering</b>	<b>B.Tech. Electronics &amp; Communication Engineering</b>
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**DURATION:** 3 Years (6 Semesters)

### WHO CAN APPLY?

Passed Minimum 3 years / 2 years (Lateral Entry) Diploma examination with at least 45% marks (40% marks in case of candidates belonging to reserved category SC/ST) in **ANY BRANCH** of Engineering and Technology **OR** Passed B.Sc. Degree from a recognized University as defined by UGC, with at least 45% marks (40% marks in case of candidates belonging to reserved category (SC/ST) and passed 10+2 examination with Mathematics as a subject **AND** Be a Professional working in Registered Industry/ Organization (Central/State)/ Private/ Public Limited Company/ MSMEs with a Minimum of 01-year full time/ Regular Working Experience.



## NON-RESIDENT INDIAN (NRI) SPONSORED QUOTA

Few seats shall be reserved under Non-Resident Indian (NRI) sponsored candidate quota for each B.Tech. Engineering programme and other programmes as mentioned under the Intake capacity. The seats shall be supernumerary in nature except in case of B.Tech. and other AICTE approved programmes.

### Eligibility Requirements / Other Requisite Information

- In addition to the required eligibility for admission to a particular programme, a candidate must be a Permanent Resident of J&K UT or of J&K UT Origin.
- The Application Form shall be appended with a Permanent Resident Certificate of J&K UT or of J&K UT Origin.
- The NRI sponsoring the candidate shall be required to produce copy of the Alien Registration Card (Green Card) Non-Resident Card or Employment Card issued by the Employer to the sponsor.
- The NRI sponsoring the candidate shall be required to produce copy of the Immigration/ Employment VISA entry on the passport along with the details of the passport.
- Bank letter from the sponsoring NRI at his place of service mentioning his account number and his address.

### OR

Letter from the Bank in J&K UT certifying the NRI account in the Bank along with the certificate that the individual is an account holder in a Foreign Bank wherefrom regular transactions are made to his NRI account.

- The NRI sponsoring the candidate shall be required to give an undertaking/declaration as per the prescribed format.
- Faxed / Scanned copy of prescribed format and certificate from the bank shall be accepted subject to the condition that the original copy of the same is furnished by or before the last date of submission of Application Form.
- An NRI can sponsor only one candidate. However, there shall be no restriction on the children of NRI.


**DECLARATION FROM THE NRI SPONSORED CANDIDATE QUOTA IN THE PRESCRIBED FORMAT AS DETAILED BELOW:**

I \_\_\_\_\_ (Name of the Sponsored-NRI), Son / Daughter of \_\_\_\_\_ residing in \_\_\_\_\_ (name of the immigration Country / place with complete residential correspondence address including Telephone, Fax and e-mail, mobile number) do hereby solemnly declare on oath as under:

**1.**

- a. That I am domicile of Jammu & Kashmir, India and my address in Jammu & Kashmir is .....
- b. That I migrated to (Country) \_\_\_\_\_ on \_\_\_\_\_ (Date) from \_\_\_\_\_. (Indicate *the place in India*).
- c. That my permanent Alien Registration Card / Non- residential Card No. is \_\_\_\_\_ (Attach photocopy).
- d. Name of the Organization / Department / Company where working \_\_\_\_\_. (In the country of immigration).
- e. Designation \_\_\_\_\_.
- f. Nature of Job (*whether Permanent / Temporary / Contractual*) \_\_\_\_\_.
- g. Employment Card No \_\_\_\_\_.
- h. Pay scale \_\_\_\_\_.
- i. Monthly gross / net income \_\_\_\_\_.
- j. Annual gross / net income \_\_\_\_\_.
- k. Account No. of Sponsor (abroad) \_\_\_\_\_. (attach certificate from bank)
- l. Date of commencement of service \_\_\_\_\_.
- m. Likely date of termination of service \_\_\_\_\_.
- n. Any other source of income (*if so, please give details*) \_\_\_\_\_.

- 2.** That \_\_\_\_\_ (name of the candidate sponsoring) Son / Daughter of \_\_\_\_\_ Resident of \_\_\_\_\_. (Full address) is my \_\_\_\_\_. (Relation).



3. That, the above stated \_\_\_\_\_. (Name of the candidate) is seeking admission to \_\_\_\_\_.  
(Name of the programme/s in order of preference) at IUST in pursuance to University Notification No. \_\_\_\_\_ Dated \_\_\_\_\_.
4. That I hereby sponsor \_\_\_\_\_. (Name of the candidate) for admission to the above stated program.
5. That I undertake to make full payment of the prescribed fee for the entire duration of the programme in the manner as may be fixed by the University from time to time.
6. That I undertake that I shall continue to reside at the place of country as indicated above, for more than the likely duration of the programme of my sponsored candidate. (Attach copy of Passport / other relevant documents).
7. That, I make this declaration to certify my sponsorship as NRI of the above stated \_\_\_\_\_ (Name of the candidate) for admission to the above programme.

I solemnly declare on oath that the above facts and particulars are true to the best of my knowledge and belief.

Signature of the Declarant

Name of the Declarant: \_\_\_\_\_

Address (abroad): \_\_\_\_\_

Contact Phone No.: \_\_\_\_\_





# SCHOOL OF BUSINESS STUDIES

School of Business Studies was established in the year 2006 with the objective of imparting quality education in the field of Management. It is one of the founding Schools of Islamic University of Science and Technology. The School continued its forward movement of growth and development and launched the prestigious research programme of PhD in January, 2013. The School is committed in educating and developing leaders and builders of enterprises who create value for their stakeholders and society at large; through various programmes offered by the school. Currently, there are two departments, each with a definite role within the broader mission of the School:

- **Department of Management Studies**
- **Department of Economics**





# DEPARTMENT OF MANAGEMENT STUDIES

## VISION

We aspire to create professionally astute, intellectually emancipated, socially responsible, and morally conscious business professionals capable of solving economic and societal problems through sustainable business activities and intellectual enterprise.

## MISSION

To enable the students to fulfil their academic, professional and personal potential to the fullest by undertaking responsible learning, training, research, and enriching communities /organizations with which we interact.

## INTRODUCTION

Since its inception in 2006, The Department of Management Studies has emerged as a knowledge hub where diverse ideas and perspectives are created, accepted, and embraced. The Department extends the horizons of knowledge and creates a unique environment of innovation, collaboration, and entrepreneurship.

Our degree-granting programmes comprise –

Programme	Year of introduction
<b>MBA (5-Year Integrated)</b>	<b>2018</b>
<b>Master of Business Administration (MBA)</b>	<b>2006</b>
<b>Master of Business Administration – International Business (MBA-IB)</b>	<b>2014</b>
<b>Doctorate in Management Studies (Ph.D.)</b>	<b>2012</b>

Our PG programs are approved by the All India Council for Technical Education (AICTE), New Delhi. The programs provide opportunities to work in teams and harness the intellectual capital while capitalizing on the facilities created and maintained as per the highest standards conforming to the latest trends in management education.

The department envisages enhancing quality research, deepening engagement with the alumni, improving infrastructure and governance, and scaling up in terms of introducing new and relevant courses as per the demands of the market. The department consistently focuses on designing practice-oriented learning and a contemporary industry-focused curriculum driven by our strong corporate interface. This vital industry linkage contributes to grooming professionals who bring best practices to the corporate world and make a positive difference to society.

## ACADEMIC PROGRAMMES

- ❖ **MBA (5 Year Integrated)**
- ❖ **Master of Business Administration (MBA)**
- ❖ **Master of Business Administration – International Business (MBA-IB)**
- ❖ **Doctorate in Management Studies (Ph.D.)**



## ABOUT THE COURSE

### MBA (5 Year Integrated)

The program aims to provide students with a sound and thorough understanding of the field of business and enable them to obtain an appropriate entry-level position in leading MNCs and other business organizations. The program is designed in accordance with the NEP 2020 guidelines. Exit options are available to the students at the end of every two semesters (1 year), resulting in the award of appropriate certifications as provided in the NEP 2020 framework.

- On completing the first two semesters, exiting students will be awarded a certificate in business administration.
- On completing the first four semesters, exiting students will be awarded a diploma in business administration.
- On completing the first six semesters, exiting students will be awarded a Bachelor's degree in business administration.
- On completing the first eight semesters, exiting students will be awarded a Bachelor's degree with Honours/Research in business administration.
- On completing the ten semesters, students will be awarded the 4-year Bachelor's degree with honors OR 4-year Bachelor's degree with Research in Business Administration along with the one-year Master's degree in Business Administration.

**DURATION:** 05 Years (10 Semesters)

### WHO CAN APPLY?

Having passed 10+2 with a minimum of 50% marks from the J&K Board of School Education or from any other recognized board.

### Master of Business Administration (MBA)

Keeping in view the market demand and opportunities for management professionals, IUST instituted the MBA programme in its first academic session to produce quality managers and dynamic entrepreneurs.

**DURATION:** 02 Years (04 Semesters)

### WHO CAN APPLY?

Bachelor's Degree in any discipline with a minimum of 50% marks from a recognized University/ Institution and a valid CMAT score. Candidates, who do not possess CMAT score, can also apply. The admission of such candidates shall be made as per the criteria shown in "Procedure for Selection".

### Master of Business Administration – International Business (MBA-IB)

Keeping in view the increasing importance of the global markets and the demand and opportunities that arise thereof for management professionals, The Department of Management Studies offers a post-graduate programme specifically designed for international trade and business.

**DURATION:** 02 Years (04 Semesters)





### WHO CAN APPLY?

Bachelor's Degree in any discipline with a minimum of 50% marks from a recognized University/ Institution and a valid CMAT score. Candidates, who do not possess CMAT score, can also apply. The admission of such candidates shall be made as per the criteria shown in "Procedure for Selection".

### Ph.D. Programme

The department offers a Ph.D. degree in different areas of management including general management, HRM, financial management, Islamic banking and investment, information technology management, accounting, marketing management, HRD, operations management, tourism management, strategic management, etc., for details, refer to IUST Ph.D. statutes. The eligibility, intake capacity, procedure of selection shall be notified separately.

### PROGRAMME EDUCATIONAL OBJECTIVES

- ❖ To develop competent, professional, and value-oriented management graduates capable of assuming a significant role in corporate and society.
- ❖ To produce industry-ready graduates having the highest regard for personal and institutional integrity, social responsibility, teamwork and continuous learning.
- ❖ To make sustained efforts for holistic development of the students and thereby empower them to aptly face the challenges posed by changing the way industries function.
- ❖ To contribute to management knowledge through research.
- ❖ To strengthen the existing management processes through skill development, executive education and consulting.
- ❖ To contribute to national/regional policymaking.

### FACILITIES

- ❖ Multimedia based smart classrooms.
- ❖ Well-equipped and state-of-the-art conference hall.
- ❖ Common rooms for both girls as well as boys
- ❖ International industrial visit for MBA – IB students.
- ❖ National industrial visit for MBA students.
- ❖ National tourist destination visits for MBA (tourism specialization) students.

### CAREER PROSPECTS

The graduating students have great prospects to work with national and multi-national companies in the areas such as event management, sales and marketing, distribution, production and operations, tour and travel, banking, finance and accounting.

### ACHIEVEMENTS

- ❖ All PG programmers offered by the department are recognized by the AICTE.

- ❖ Our students have been employed by MNCs like yes bank, Bajaj Allianz, CIE, HDFC, Reliance, Tata, Vodafone, Airtel, ING Vysya, etc.
- ❖ Some of the students opted for entrepreneurship and have started their own businesses, providing employment opportunities to others as well.
- ❖ Some students have also cracked the prestigious IAS and JKAS examinations.
- ❖ A decent number of students also got admission to various prestigious institutions of the country like IITs and IIMs.

## **DISTINCTIVE ACHIEVEMENT**

- ❖ The Department of Management Studies has the unique position in the University by establishing the first Ph.D programme of the University in 2012. For the past 16 years it has been catering to the needs of teaching both PG and UG courses.
- ❖ Department has been able to incorporate Syawam courses as integral part of course structure of IMBA.
- ❖ Its Alumni hold high and coveted positions in industry, Government and Academia in India and abroad.
- ❖ DMS has launched two new MBA programs namely, two-year full time MBA-IB(International Business) and five year IMBA (Integrated MBA) programs from the academic year of 2014 and 2018 respectively.
- ❖ Students are given the international exposure through international tours.

## **FUTURE PLANS**

The department plans to launch the following courses in future:

- ❖ MBA in Entrepreneurship Management
- ❖ MBA in Tourism Management
- ❖ MBA in Banking and Finance
- ❖ Executive MBA
- ❖ B.Voc and other diploma courses in insurance, consultancy and healthcare.



# DEPARTMENT OF ECONOMICS

## VISION

The Department of Economics IUST has been set with the aim of contributing towards the extension of knowledge frontiers within the field of economic theory and policy practice.

## MISSION

- ❖ To train young aspiring economists as practising applied practitioners.
- ❖ To create a knowledge pool concerning the local, national and international economies.
- ❖ To set in place inter- and multi-disciplinary collaborative practical approaches towards the economic betterment of the societies and people.

## INTRODUCTION

The Department of Economics, Islamic University of Science and Technology, Awantipora was established in 2017 with a vision to create a change in the modern day dynamic and diversified world. Since its inception the Department has been imparting quality education and practicable training to students so that they can successfully face the challenges amidst this rapidly changing economic environment. The department has been offering empirically validated, data-driven policy solutions to issues facing our society. At present, the Department offers Four Year Under Graduate Program in Economics (FYUGP) with Four One-Year Masters verticals including General Economics, Quantitative Economics, Development Economics and Financial Economics. The Department is also offering two years Master's Program in Economics and the Ph.D. research program. The students for multiple programs are admitted through a rigorous selection process involving a comprehensive written test to ensure the selection of the meritorious students. The course structures are continually improvised based on the market demands and changing times. As such, all the courses offer a fine balance between theoretical knowledge and practical skills. Within the Department the students are subjected to a meticulous evaluation system comprising of tests, assignments, presentations, and viva voice, among others, on regular basis. The Department has well qualified, passionate and dedicated faculty striving to enhance the capabilities and capacities of the students. Over the years, the Department has developed a state-of-the-art infrastructure and is equipped with all the modern facilities, catering to the needs of the students, scholars, researchers and the faculty. The outcomes of the Department are being registered as a promising growth trajectory. The faculty envisions to set the quality standards both in teaching and research.

**YEAR OF ESTABLISHMENT:** 2017

## ACADEMIC PROGRAMS

- ❖ **M.A Economics**
- ❖ **B. SC. Economics (FYUGP)**
- ❖ **DYoD with Majors from Economics**
- ❖ **Ph.D Programme (3 years)**





## ABOUT THE COURSE

### M.A. Economics

MA Economics or Master of Arts in Economics is a postgraduate course with a duration of two years. The course is divided into four semesters, which has been among the top choices of students pursuing the arts stream. With a blend of all the aspects of economics in a society, MA in Economics is a programme that gives students a deep insight. MA Economics focuses on various topics of economics like Macroeconomics, Microeconomics, Public Economics, Econometrics, Finance, Accounting, International and financial economics.

After successful completion of the programme, candidates can look for employment opportunities in different fields including Banking, Administration, Corporate Sector, Academics etc.

**DURATION:** 02 years (04 semesters)

### WHO CAN APPLY?

Candidates having bachelor's degree with a minimum of 45% marks from a recognized University/ Institution with Economics/ Mathematics/ Statistics as one of the subjects in at least 04 semesters/ 02 Years at UG level **OR** Four years Engineering Degree **OR** Bachelor's Degree in Agricultural/ Horticultural **OR** Bachelor's Degree in Business Administration **OR** Bachelor's Degree in Commerce **OR** B.Sc. Actuarial and Financial Mathematics.

### B. A. Economics (FYUGP)

The FYUGP in Economics is an up-to date market centric Programme exhaustive in its nature and appeal. The Programme is divided into eight semesters with multiple entry and exit options. The FYUGP has been designed in light of the National Educational Policy 2020. The FYUGP at the Department of Economics IUST not offers exposure to diversified and contemporary sub-fields of economics but at the same time exposes the students to practical market situations. The FYUGP module encompasses internship and dissertation within its ambit. During the course and tenure of FYUGP the students will be exposed to industries, communities and beyond. The FYUGP shall cater to three broad Specialisations at the Honours level viz., Quantitative Economics, Financial Economics and Development Economics

**DURATION:** 04 Years (08 Semesters)

### WHO CAN APPLY?

Having passed 10+2 with a minimum of 50% marks from the J&K Board of School Education or from any other recognized board.

### DYoD Majors in Economics

The University has come up with the program of 'Design your Own Degree' where the enrolled students are exposed to a wide basket of subjects in a systematic manner. Giving the students a chance to know multiple streams they are eventually asked to choose a Majors course. The Department of Economics IUST will be offering a distinct inter-disciplinary and unique market centric Majors course in Economics



## WHO CAN APPLY?

Candidates already enrolled for BS DYod (FYUGP) in IUST.

## Ph.D. Programme

Ph.D. Programme in Economics is a three to five-year doctorate course. Ph.D. scholars are required to through a course work of six months. The course work comprises of three compulsory courses including Research Methodology, Publication Ethics, and Area Specific Paper. After completion of the course work, the Ph.D. scholars are required to write a thesis and publish research papers in reputed journals, for details, refer to IUST Ph.D. statutes. The eligibility, intake capacity, procedure of selection shall be notified separately.

## PROGRAM EDUCATIONAL OBJECTIVES

The main objective of P.G Program in Economics is to create qualified professional economists who will be able to serve the public and private sectors nationally/internationally. These professionals will have a strong base in economics and other social disciplines with a special emphasis on micro and macroeconomic analysis, growth and development, trade and finance, environmental issues, monetary and financial economics, statistics, econometrics, research methodology, and computer applications.

Our analytical approach of studying society provides the students with requisite theoretical frame work and essential quantitative tools of analysis necessary to understand economic problems and arrive at appropriate solutions. PG students from the department should be able to respond to the ever-changing and increasingly demanding requirements of business practices and labour markets quite comfortably. Finally, our choice of teaching methods has the goal of promoting the cognitive development of our students.

## CAREER PROSPECTS

Both the programmes offered by the Department are job-oriented programmes with job opportunities in the areas of Academics, Public Administration, Banking, Finance, Tourism, Planning and Statistics, Insurance and HRD.

## ACHIEVEMENTS

### Projects

- ❖ What role does the employment protection legislation play in wage determination under segmented labour markets? A state level analysis.
- ❖ Impact of urban education complexes on education of scheduled tribes in J&K.
- ❖ Impact of hiring and firing laws on factor productivity: A unit level analysis using judicial outcome index.

## FUTURE PLANS

- ❖ To establish B.A. Hons. Economics.
- ❖ To start a certificate course on data analysis using STATA.
- ❖ To start a Diploma Course in Rural Development.



## SCHOOL OF HEALTH SCIENCES

The school of Health Science was established in the year 2016 and has two constituent colleges which offers 04-year Basic B. Sc. Nursing programmes. The school has two centres which offers an undergraduate programme in Medical Lab & Molecular Diagnostic Technology and Doctoral Degree in Molecular Medicine.

### COLLEGES

At present the following two constituent colleges are running under the aegis of the University

- **Alamdar Memorial College of Nursing and Medical Technology, Charar-i-Sharief, Budgam**
- **Syed Mantaqui Memorial College of Nursing and Medical Technology, Awantipora, Kashmir**

### CENTRES

- **Centre for Vocational Studies**
- **Watson-Crick Centre for Molecular Medicine**



# ALAMDAR MEMORIAL COLLEGE OF NURSING AND MEDICAL TECHNOLOGY

AISHE-CODE: C-57819

## VISION

To educate Nurses in an inter-professional environment to change lives, and provide proactive leadership to improve health outcomes, eliminate health disparities and uplift the nursing profession.

## MISSION

- ❖ Providing evidenced based nursing education.
- ❖ Developing, testing, and disseminating nursing knowledge.
- ❖ Demonstrating excellence in nursing practice.
- ❖ Sharing expertise and leadership through service to professional organizations and communities
- ❖ Promoting inter-professional team work competencies in collaborative education, practice and research.
- ❖ Providing an environment for nursing profession that is accountable, respectful, adaptive, and innovative.

## INTRODUCTION

Alamdar Memorial college of Nursing and Medical Technology, Charar-i-Sharief, Budgam, a constituent college of IUST was commissioned during 2016. The Annual admission capacity of the college is 40 B.Sc. Basic Nursing Candidates. The college is recognized and found suitable by Indian Nursing Council, a regulatory body of Ministry of Health and Family welfare , Govt. of India. The college is affiliated to state nursing registration council J&K, UT for registration and licensing.

**YEAR OF ESTABLISHMENT:** 2016

## ACADEMIC PROGRAMMES

- ❖ **Basic Bachelor of Science in Nursing (Basic B.Sc. Nursing)**

## ABOUT THE COURSE

B.Sc. Nursing is 4-year undergraduate course which focuses on preparing student to become professional nurses. Here students are exposed to knowledge from nursing medical and allied sciences. The course is recognized by Indian Nursing Council (INC). The course gives student multidimensional perspective in client health care and reinforcing to get acquainted with nursing skills, the course also helps student to understand principles, protocols, theories, researches and their application in the professional health care services.

**DURATION:** 04 years (08 Semesters)

## WHO CAN APPLY?

The admission in this college is made through the Board of Professional Entrance Examinations (BOPEE), candidates interested for admission in this college are advised in their own interest to apply through BOPEE as and when notified on their website <https://jkbopee.gov.in>

### PROGRAMME EDUCATIONAL OBJECTIVES

On completion of B.Sc. nursing 4 years programme the graduates will be able to:

- ❖ Apply knowledge gained in providing nursing care to individuals, families and communities.
- ❖ Provide systematic nursing care based on scientific knowledge.
- ❖ Demonstrate proficient skill in decision making in all situations to provide standard nursing care.
- ❖ Utilize latest technology and trends in providing nursing care.
- ❖ Provide Promotive, preventive and restorative health services in line with the National health policies and programmes.
- ❖ Practice the professional skills within the framework of code of ethics and professional conduct within the standards of nursing.
- ❖ Communicate effectively with individuals and groups and other members of the health team to develop effective interpersonal relationships and team work.
- ❖ Gain skills in health teaching to individuals and groups in clinical/Community health settings.
- ❖ Participate effectively as members of the health care delivery system.
- ❖ Demonstrate leadership and managerial skills in clinical/community health settings.
- ❖ Learn to conduct need based research studies in various settings and utilize the research findings to improve the quality of care.
- ❖ Develop awareness, interest and contribute towards advancement of self and of the profession.

### CAREER PROSPECTS

AMCN&MT, B.Sc. (N) 39 (2016 – 2020), 39 (2017 -2021) and 38 (2018 -2022) batches have completed their programme and have passed out. Majority of all the B.Sc. (N) graduates/ pass outs are selected as government employees in different institutions of UT and outside UT, while some of the graduates from batch 2016, 2017 and 2018 are pursuing their higher education from reputed institutions of the UT and country. Career prospectus for B.Sc. (N) graduates of the college is excellent with the details of the students' placement for jobs and higher education detailed as under:

S. No.	Academic Year	No. of students placed	Median Salary	No. of Students selected for higher education
1.	2018	13	18,307 ( Monthly )	-
2.	2017	16	3,23,333 ( Annual )	04
3.	2016	35	50,000 ( Monthly )	04



## ACHIEVEMENTS / ACADEMIC HIGHLIGHTS / DISTINCTIVE ACHIEVEMENTS

- ❖ Group of students from both batches participated in Tarang held at SMVDU, Karta in March 2018 where our college outshined in most of the segments.
- ❖ Plantation drive was held at college campus with the slogan, GO GREEN, on 18th of March 2018.
- ❖ International Women's Day was celebrated on 8th March 2018.
- ❖ International Nurses Day 2018 was celebrated in 12th May 2018 with the international council of Nursing theme, NURSES: A voice to lead Health is a human right.
- ❖ International Nurses Day was celebrated on 6th May 2019 in the college.
- ❖ Students were sent on community health programmes, to create awareness about various diseases in local villages as a part of their curriculum.
- ❖ College Annual Day was celebrated on 6th September 2018 with the release of maiden college magazine 'Reshmol'
- ❖ 2017 and 2018. It also proves its Excellency in all aspects of academic and non academic phases for which we have granted Our institution Alamdar Memorial College of Nursing and Medical Technology (IUST) is recognized by statutory bodies that is Indian Nursing Council and State Nursing and Para medical council since the academic year permission to start under-graduate nursing course B.Sc. (N)
- ❖ College got inspected by Indian Nursing Council, New Delhi on 13th and 14th November 2018 and after thorough inspection our institute was granted suitability to conduct B.Sc. (N) course with an intake capacity of 40 seats for the academic year 2018-19.
- ❖ The college was granted suitability to run B.Sc. (N) course for the academic year 2019-2020, 2021-22, and 2023-24 by the Indian Nursing Council, New Delhi on 28th April 2020, 31st December 2021 and 20th November 2023 respectively.

### LIST OF VARIOUS HEALTH PROGRAMMES CONDUCTED FROM DECEMBER 2021 TO MARCH 2023

PROGRAMMES	DATE
Awareness programme on "Impact of Covid-19" on Mental Health's	06-10-2021
Awareness programme on "Environmental Hygiene".	30-07-2021
Food Hygiene "ways and Importance"	12-04-2022
"Demonstration of Menstrual Hygiene" among adolescent girls.	16-04-2022
Balanced diet for children and prevention of Deficiency disease.	23-04-2022
Safe disposal of domestic wastes.	26-04-2022
Environmental sanitation- need of the hour.	02-05-2022
Awareness programme on "worm infestation".	06-05-2022
Demonstration of Healthy Habits among school going children.	13-05-2022
Awareness campaign Modifiable risk factors for prevention of Non-Communicable diseases.	20-05-2022



Awareness programme on Diabetes Mellitus.	01-09-2022
Awareness programme on Breast cancer Prevention and early detection.	05-09-2022
Awareness programme on Dental & oral Care among school going.	07-09-2022
Awareness programme on Antenatal Care - Importance and Strategies.	09-09-2022
Awareness programme on personal Hygiene.	12-09-2022
Demonstration of weaning practices among mothers of under 5 children.	14-09-2022
Community awareness on Suicide Prevention.	17-09-2022
Community sensitization on prevention of domestic abuse & Woman Empowerment.	19-09-2022
Programme on healthy lifestyle – Golden way to lead healthy life.	21-09-2022
Awareness on Prevention of Communicable Diseases in general.	24-09-2022
Awareness on prevention of non-Communicable diseases.	26-09-2022
Awareness on warning signs of cancer and need for medical advice.	28-09-2022
Demonstration of new born care among women of Nagbal, Budgam.	30-09-2022
Sensitization of community regarding substance abuse and its prevention.	01-10-2022
Awareness regarding prevention of road traffic accidents among adolescent students of Govt Middle School Nagbal, Budgam.	03-10-2022
Assessment of BMI and Awareness on Balanced diet among school going children of class 7th – 9th Govt Middle School, Nagbal.	04-10-2022
Demonstration of First Aid among school Children's of class 7th – 9th of Govt. School Nagbal.	06-10-2022

### FUTURE PLANS

Introduction of two years M.Sc. Nursing Programme in following specialties:

Community Health Nursing / Medical Surgical Nursing / Pediatric Nursing / Mental Health Nursing / Maternity Nursing

# SYED MANTAQUI MEMORIAL COLLEGE OF NURSING & MEDICAL TECHNOLOGY

## VISION

To educate nurses in an inter-professional environment to change lives and provide proactive leadership to improve health outcomes, eliminate health disparities and uplift the nursing profession.

## MISSION

- ❖ Providing evidence-based nursing education.
- ❖ Developing, testing and disseminating nursing knowledge.
- ❖ Demonstrating excellence in nursing practice, sharing expertise and leadership through service to professional organizations and communities.
- ❖ Promoting inter-professional teamwork competencies in collaborative education, practice and research.
- ❖ Providing an environment for nursing profession that is accountable, respectful, adaptive, and innovative.

## INTRODUCTION

Syed Mantaqui Memorial College of Nursing and Medical Technology strives to be an equitable, effective and interactive learning community that makes a difference to education and human development through excellence in teaching, scholarship and service. Our Institution was started in 2016 with Basic B.Sc. Nursing four-year degree course. The students are motivated and educated to serve and discharge their duties with love and affection. Our Institution is recognized by the Nursing Council Jammu & Kashmir, UT and Indian Nursing Council. Besides College have 06 departments viz:

- ❖ Medical Surgical Nursing
- ❖ Community Health Nursing
- ❖ Obstetrics and Gynaecological Nursing
- ❖ Child Health / Paediatrics Nursing
- ❖ Mental Health/ Psychiatric Nursing
- ❖ Fundamental Nursing

**YEAR OF ESTABLISHMENT:** 2016

## ACADEMIC PROGRAMMES

- ❖ **Bachelor of Science in Nursing (B.Sc. Nursing)**

## ABOUT THE COURSE

This programme enables students to become competent professional nursing practitioners who are self-directed and responsible both in clinical and teaching setup.



**DURATION:** 04 Years (08 Semesters)

### WHO CAN APPLY?

The admission in this college is made through the Board of Professional Entrance Examinations (BOPEE), candidates interested for admission in this college are advised in their own interest to apply through BOPEE as and when notified on their website <https://jkbopee.gov.in>

### PROGRAMME EDUCATIONAL OBJECTIVES

- ❖ Apply knowledge from physical, biological and behavioural sciences, medicine including alternative systems and nursing in providing nursing care to individuals, families and communities.
- ❖ Demonstrate understanding of life styles and other factors, which affect health of individuals and groups.
- ❖ Provide nursing care based on steps of nursing process in collaboration with individuals and groups.
- ❖ Demonstrate critical thinking skill in making decisions in all situations in order to provide quality care.
- ❖ Utilize the latest trends and technology in providing healthcare.
- ❖ Provide promotive, preventive and restorative health services in line with the National Health Policies and Programmes.
- ❖ Practice within the frame work of code of ethics and professional conduct, and acceptable standards of practice within the legal boundaries.
- ❖ Communicate effectively with individuals and groups, and members of the health team in order to promote effective inter personal relationship and teamwork.
- ❖ Demonstrate skills in teaching to individuals and groups in clinical and community health settings.
- ❖ Participate effectively as members of the health team in health care delivery system.
- ❖ Demonstrate leadership and managerial skills in clinical / community health settings.
- ❖ Conduct need based research studies in various settings and utilize the research findings to improve the quality of care.
- ❖ Demonstrate awareness, interest, and contribute towards advancement of self and of the profession.

### FACILITIES

- ❖ Library
- ❖ Fundamental Lab
- ❖ Anatomy & Physiology/ Preclinical Science Lab
- ❖ Advance Skill Lab
- ❖ Obstetrics and paediatric Lab
- ❖ Community Health Lab
- ❖ Nutrition Lab
- ❖ Computer Lab

### CAREER PROSPECTS



Bachelor of Science in Nursing is one of the professionally oriented courses that have plenty of higher study options as well as job opportunities. The course has much scope in present days. B.Sc Nursing makes a person eligible to have a job by choice and not by chance. Several job opportunities are available in the private as well as public sector for candidates who have completed graduation in Nursing. Apart from this, graduates have the option to continue their education and go for advanced studies in the field. After completing higher education, aspirants can get jobs as Assistant Nursing Superintendent, Department Supervisor, Teachers and also as an advisor in nursing field to the Government of India etc. In addition to these candidates can seek employment abroad as well.

### **ACHIEVEMENTS/ ACADEMIC HIGHLIGHTS/ DISTINCTIVE ACHIEVEMENTS**

- ❖ The State Nursing Council and Indian Nursing Council has enhanced the intake capacity from 40 to 60 for SMMCNMT, IUST.
- ❖ Two students from three Alumni batches of SMMCNMT has been nominated for Gold Medal by IUST management.
- ❖ Ten students of SMMCNMT have been selected by SSRB as permanent Nursing Officers.
- ❖ The first batch of B. Sc. Nursing Programme in the SMMCNMT, IUST has recorded 95 percent placement in the recruitment process and have notched top-slots in the selection lists. The first-batch pass-out students of SMMCNMT, IUST has occupied positions in Defence Research & Development Organisation (DRDO) and other GMC associated hospitals. Some of them have taken Supervisor positions and are working independently in the above mentioned hospitals.
- ❖ MLHP-Mid Level Health care Provider (Earlier known as Bridge course) is approved in Academic & Executive Council of IUST for BSc Nursing students in Community Health Nursing II. It makes our students who pass out 2020 onwards eligible for the post of Community Health Officer (CHO) exempting them from the six months Bridge course. Islamic University of Science and Technology is the first of its kind in Kashmir division that has incorporated MLHP in the Community Health Nursing II as per the INC guidelines. These guidelines were a consequence of National Health Policy 2017.
- ❖ On the basis of the MLHP course, 24 1<sup>st</sup> alumni have secured a position of Community Health Officer (CHO) in J&K, Ladakh UT.
- ❖ In a first of its kind in the country, The School of Health Sciences of IUST has implemented a separate 100 marks internship in BSc Nursing 4<sup>th</sup> year earlier prescribed by INC.
- ❖ Institutional Ethical Committee has been set up in continuation with the earlier initiative by SMMCN&MT & framed SOPs of this committee and achieved registration number ECR/1535/Inst/JK/2021. Department & Health Research registration thereof.

### **FUTURE PLANS**

- ❖ Upgradation of graduation courses into post-graduation.
- ❖ Starting 42 specialized Courses in critical care, hospital administration, oncological nursing, infection control etc & post basic B.Sc Nursing Courses.



# CENTRE FOR VOCATIONAL STUDIES

## VISION

To serve as a hub that will impart modern skill-based education to ensure sustainable livelihood for all citizens of the country.

## MISSION

The mission of the Centre is to create skilled competent human resources tailored to the needs of the region. They should be able to make a meaningful participation in accelerating the regional economy by gaining appropriate employment, becoming entrepreneurs, and creating knowledge.

**YEAR OF ESTABLISHMENT:** 2018

## INTRODUCTION

The Centre for Vocational Studies was established in 2018 to promote skill-based higher education at IUST. Presently, the Centre is offering two undergraduate programs leading to the Bachelor of Vocation (B.Voc.) in Medical Lab & Molecular Diagnostic Technology (ML&MDT) and Operation Theatre Technology (OTT). The Centre is funded by the University Grants Commission (UGC) under the Deen Dayal Upadhyay Kaushal Kendra Scheme. The Centre has a highly qualified and committed team of faculty members with experience in both research and teaching from top universities around the world. Their expertise and knowledge contribute to the vibrant and intellectual learning environment of the Centre, providing students with a valuable and well-rounded education. Moreover, the Centre houses two laboratory-cum-classrooms capable of accommodating up to 40 students each, along with two separate classrooms, each with a capacity of at least 80 students. Adequate bench space is made available in the laboratory-cum-classrooms to students so that they can perform practicals with ease and comfort. A notable feature of these courses is an annual 1-month and one complete semester of 6-month internship at various tertiary care hospitals in the Kashmir Valley. Students get exposed to the standard operating procedures of clinical laboratories/diagnostic centers, and operation theatres, enhancing their practical skills. Overall, we offer a very vibrant and intellectual environment to learn and progress.

## ACADEMIC PROGRAMMES

- ❖ **B. Voc. Medical Lab & Molecular Diagnostic Technology**
- ❖ **B. Voc. Operation Theatre Technology**

## ABOUT THE COURSES

The Centre offers two undergraduate programs leading to Bachelor of Vocation (B.Voc.) degrees in Medical Lab & Molecular Diagnostic Technology and Operation Theatre Technology. These programs offer multiple exits, such as a diploma or advanced diploma, under the National Skills Qualification Framework (NSQF). They are specifically designed to equip students with the essential skills needed to conduct laboratory investigations and perform tasks in operation theatres, which are essential for diagnosing, treating, and preventing diseases. The

curriculum focuses on imparting knowledge and creating skills necessary for a successful career in the field of health science. Each program spans six semesters, with each semester incorporating significant hands-on laboratory work to provide students with practical experience. Additionally, students participate in field visits to reputable hospitals and institutes in Kashmir, which enhances their practical exposure and deepens their understanding of the subject matter in hospital settings.

**DURATION:** 03 years (06 semesters)

## WHO CAN APPLY?

The admission is made through the Board of Professional Entrance Examinations (BOPEE), candidates interested for admission in these programmes are advised to apply through J&K BOPEE as and when notified on their website <https://jkbopee.gov.in>

## FACILITIES

The Centre is well-equipped with modern facilities that offer students a comprehensive hands-on training experience in all the essential technologies that are crucial for a standard Medical Lab and Molecular Diagnostic Technology course. The Centre has a world-class laboratory that is equipped with advanced instruments, including Biochemistry Analyzer, Hematology Analyzer, Urine Analyzer, Microscopes, ELISA reader, PCR machine, Laminar flow hood, high-speed centrifuges, pH meters, calorimeters, UV/Vis Spectrophotometer, Orbital Shakers, and more. We are currently setting up a dedicated operational theatre solely for training purposes. The theatre will be used to provide hands-on training and practical demonstrations for students enrolled in the Operation Theatre Technology course.

## CAREER PROSPECTS/LEARNING OUTCOMES

A career in Medical Laboratory & Operation Theatre Technology offers students the opportunity to make a significant impact on patient care through disease diagnosis and assisting in different surgical procedures. Students can be employed in hospitals, healthcare industries, private laboratories, pharmaceutical companies, and medical device manufacturing companies.

## FUTURE PLANS

- ❖ Involvement of students in community outreach programs.
- ❖ Creation of a low-cost diagnostic facility for university employees.





# WATSON-CRICK CENTRE FOR MOLECULAR MEDICINE

## VISION

Molecular medicine is an emerging area within biomedical sciences that aims to understand the molecular determinants of health and disease with an ultimate goal of applying the knowledge for the prevention, diagnosis and treatment of diseases. The Watson-Crick Centre for Molecular Medicine Centre at IUST conducting, pioneering research and education in this field, and it offers a PhD Programme in Molecular Medicine. The Centre aims to accomplish its goal through innovative basic and clinical research programmes. To fulfill its goal, the Centre has already initiated many collaborative research activities with reputed national and international medical research institutes.

## MISSION

Molecular medicine is the study of molecular and cellular phenomena in biological systems that enhances our understanding of human diseases and facilitates research in disease prevention, diagnosis and therapy. It offers new scientific tools to address diagnostic and therapeutic aspects of different means of different diseases. The purpose of the Watson-Crick Centre for Molecular medicine is to foster research in the field of molecular and cell biology with direct application to the study and treatment of human diseases.

**YEAR OF ESTABLISHMENT:** 2020

## ACADEMIC PROGRAMME

❖ **Ph.D. in Molecular Medicine**

## ABOUT THE COURSE

Ph.D. in molecular medicine is intended to train next generation biomedical scientists with expertise in molecular biology, cell biology, biochemistry and genetics. The training will initially involve six months of rigorous course work in the core subjects of biomedical sciences. Subsequently, the students will choose the research topic based on discussions and mutual understanding with the supervisors. Ph.D. training will additionally involve mandatory journal clubs and work seminar's series, for details, refer to IUST Ph.D. statutes. The eligibility, intake capacity, procedure of selection shall be notified separately.

**DURATION:** 03—06 years

## WHO CAN APPLY?

Candidates having Master's degree in Biotechnology, Biochemistry, Clinical Biochemistry, Molecular Biology, Molecular Medicine, Microbiology, Cell Biology, Immunology, Genetic engineering and Genetics from a recognized University shall be eligible for admission to Ph.D. in molecular medicine, for details, refer to IUST PhD statutes. The eligibility, intake capacity, procedure for selection, etc. shall be notified separately.

# SCHOOL OF HUMANITIES & SOCIAL SCIENCES

Islamic University of Science and Technology while emphasizing and promoting studies in Science and Technology believes that the same needs to be complemented with education providing insight into the socio-cultural dimensions at local, regional and global levels. The School of Humanities and Social Sciences was established with a vision of facilitating inter disciplinary dialogue for meaningful human existence. Currently, there are four departments and five centres each with a definite role within the broader mission of the School

## DEPARTMENTS

- Centre for International Relations
- Department of Arabic Language & Literature
- Department of English Language & Literature
- Department of Islamic Studies
- Department of Journalism and Mass Communication

## CENTRES

- Averroes Centre for Philosophical Studies
- Habba Khatoon Centre for Kashmiri Language & Literature
- International Centre for Spiritual Studies
- Rinchen Shah Centre for West Himalayan Cultures



# CENTRE FOR INTERNATIONAL RELATIONS

## VISION

The Centre envisions providing students with a broad, interdisciplinary knowledge base and a deep understanding and commitment to deal with various aspects of international relations. It aims to promote skill-oriented research and training. Further, the Centre aims to develop a holistic and interdisciplinary understanding of issues by studying international relations from the perspective of the Global South.

## MISSION

- ❖ To introduce programs that provide the necessary skill-set to understand various aspects of international relations.
- ❖ To encourage and inculcate intellectual rigour and critical thinking
- ❖ To equip students with the necessary skills to blend theory with practice
- ❖ To promote an interdisciplinary approach to study IR

## INTRODUCTION

Over the past few decades, universities worldwide have initiated programs to cater to the evolving field of International Relations. This is because the world has become interconnected and the line between the global and local has blurred. The Centre for International Relations (CIR) at Islamic University of Science and Technology (IUST) has made one such attempt, the first in J&K, by offering a Master's degree focusing on International Relations. The aim is to equip students with a broad interdisciplinary knowledge base to study international relations and impart practical and skill-oriented knowledge.

**YEAR OF ESTABLISHMENT:** 2008

## ACADEMIC PROGRAMMES

- ❖ **M.A. International Relations (Peace & Conflict Studies)**
- ❖ **M.A. Political Science**
- ❖ **PhD**

## ABOUT THE COURSE

The M.A. programme includes course work as well as a Master's thesis. The programme is designed keeping in view the interdisciplinary nature of international relations. The uniqueness of the programme lies in its relevance to contemporary issues that makes it dynamic and relevant. Introduction of the Choice Based Credit System (CBCS) has further enhanced the interdisciplinary learning of students, whereby they can take courses from other departments to enhance their knowledge, skills and employability.





The course encompasses diverse fields of study. Areas of study include democracy and politics in South Asia, gender and violence, diplomacy, non-western perspectives on IR, principles of international environmental law, foreign policy, international law etc.

### **M.A. International Relations (Peace & Conflict Studies)**

**DURATION:** 02 Years (04 Semesters)

#### **WHO CAN APPLY?**

Bachelor's Degree in any discipline with a minimum of 45% marks from a recognised institution is eligible to apply. Mid-career professionals such as lawyers, journalists and NGO workers are encouraged to apply.

### **M.A. Political Science**

**DURATION:** 02 Years (04 Semesters)

#### **WHO CAN APPLY?**

Bachelor's Degree with a minimum of 45% marks from a recognized University/ Institution with Political Science as one of the subjects in at least 04 semesters/ 02 Years at UG level.

#### **PROGRAMME EDUCATIONAL OBJECTIVES**

To develop an interdisciplinary understanding of contemporary issues and equip students with requisite skills by studying international relations from the perspective of the Global South. To foster critical thinking and impart requisite abilities in order to help our students become productive members of society.

#### **FACILITIES**

- ❖ A Departmental library that is easily accessible to the students and faculty.
- ❖ A V-con system for conducting online meetings, which is also used by other departments of the University.

#### **CAREER PROSPECTS**

In addition to the prospects available in academia, the skill and knowledge acquired by students at the CIR equip them to pursue careers in a wide range of fields, more specifically international organizations (the UN, UNESCO, UNDP, etc), international non-governmental organizations, local non-governmental organizations, think tanks, and the public sector.

#### **R&D/PROJECT ACTIVITIES**

"Exploring Narrative Storytelling as Mental Health Support for Women Experiencing Gender based Violence in High Prevalence Settings", sanctioned in 2019, funded by University College London.

"Impact of Urban Education Complexes on Education of Scheduled Tribes in J&K" sanctioned in 2018, funded by the Directorate of Tribal Affairs J&K.



## ACHIEVEMENTS/ACADEMIC HIGHLIGHTS

Our faculty members have research papers and chapters in reputed journals and books published by renowned publishing houses like Sage, Taylor and Francis, and Palgrave Macmillan.

Our students have been gainfully employed in various NGOs, think tanks and research institutes. Some are currently pursuing PhD in various universities in India and abroad.

Faculty from the CIR are regularly invited to deliver lectures and present papers at reputed national and international institutions. Our faculty members have been selected for participation in courses run by the leading universities of the world. They have presented papers in prestigious institutions like the London School of Economics and Political Science, University of Delhi, Asser Institute Centre for International and European Law, the Hague Netherlands, National University of Singapore, University of Oxford, United Kingdom.

## DISTINCTIVE ACHIEVEMENTS

Collaborations with reputed international institutions like the University College London, University for Peace, Costa Rica, and the Tokyo University of Foreign Studies.

## FUTURE PLANS

The Centre plans to introduce skill-driven, multidisciplinary courses in collaboration with other departments at IUST. Further, the Centre plans to introduce a Four Year Undergraduate Programme (FYUGP) as well as majors for Design your Own Degree (DYOD) Programme.





# DEPARTMENT OF ARABIC LANGUAGE AND LITERATURE

## VISION

Academic excellence in the field of Arabic Language and Literature producing a galaxy of learners and scholars with high proficiency in Classical and Modern Standard Arabic to promote Arabic language competencies for all round development of human resource as per the emerging requirements in the field of technology, humanities, business and tourism with language competency coupled with other qualifications.

## MISSION

The Department of Arabic Language and Literature aims at imbibing Arabic language to the aspirant students of technology, management studies and other disciplines of Humanities and Social Sciences to reciprocate the proficiency and competencies in a systematic and organized manner, and to introduce an inclusive environment of learning teaching process in the university.

## INTRODUCTION

The department of Arabic is one of the founding departments of university established in 2006. It aims at producing scholars who are competent to cater existing and emerging needs related to various sectors of life with the broader cognizance of the history and evolution of the language. The courses offered by the department encompass emerging needs in the field of art and letters as well as IT sector, marketing, tourism etc in the contemporary world. The department extends the horizons of knowledge and creates a unique environment for learners.

**YEAR OF ESTABLISHMENT:** 2006

## ACADEMIC PROGRAMMES

- ❖ **M. A. in Arabic Language and Literature.**
- ❖ **Ph.D. in Arabic**

## ABOUT THE COURSE

### **M.A. in Arabic Language & Literature**

Masters in Arabic Language and Literature is an interactive and Interdisciplinary course offered to the students under the guidelines of UGC. The department has devised its course of Study/Syllabi under the CBCS scheme. Students will delve into courses that shape their language skills dealing with multiplicities in the literature. Some of the subjects currently being taught in the Masters Programme are History of Arabic Literature, Classical Poetry, and Prose, Syntax and Morphology, Translation, Modern Arabic Poetry, Novel, Drama, Short Story, Rhetoric and Prosody, Literary Criticism, Research Methodology and studies regarding contemporary Arabi world.





Major thrust areas in the field of teaching and research include Arabic Morphology and Syntax, Classical Poetry/ Prose, Fundamentals of Literary Criticism, History of Arabic Literature, Translation, Consecutive Interpretation and Simultaneous Interpretation, Modern Arabic Poetry/ Prose, Arabic Literature in Muslim Spain and India and Arabic Novel and Short Story.

**DURATION:** 02 Years (04 semesters)

**WHO CAN APPLY?**

Bachelor's Degree or equivalent with a minimum of 45% marks from a recognized University/ Institution with Arabic as one of the subjects in at least 04 semesters/ 02 Years at UG level **OR** having Aalimayat/ Fazilah degree with 10+2 of the approved Madrasas.

**Ph.D. Programme**

The Department offers Ph.D. Programme in Arabic, for details, refer to IUST Ph.D. statutes. The eligibility, intake capacity, procedure of selection shall be notified separately.

**PROGRAMME EDUCATIONAL OBJECTIVES**

- ❖ The learners will be introduced to a rich literary, philosophy and humanistic tradition that developed in standard Arabic language and enriched thoughts and civilization at large.
- ❖ To enable students to fulfill their academic, professional and personal potential to the fullest by undertaking responsible learning and research with specific reference to Arabic literary corps that developed in mainland Arabia, Spain, North & South America at various historical periods.
- ❖ To introduce students to Arabic literary corps that developed in Indian sub-continent.
- ❖ To train specialized personnel in Arabic language to be able to work in different public and private sectors/Institutions.
- ❖ To impart practical skills in Arabic-English translation with emphasis on journalistic media and administrative language.

**FACILITIES**

Seminar Library and multimedia facilities for promoting language competencies like that of reading, writing and speaking skills with access to the material related to Arabic Language and Literature for honing the language skills.

**CAREER PROSPECTS**

The course can lead to exciting careers in various fields because of the global importance of the Arab world in the field of Business, Tourism and Finance, be it public or corporate sector. There is always a persistent demand for people with knowledge of Arabic. This broadens the prospects of employability of our students in various Arab countries. Moreover, within the country industrious and skilled students can pursue various career options after attaining the degree. Apart from the knowledge of Arabic it can also augment career prospects in various other fields of study like software development, International Relations, and Aid Organizations etc. Knowledge of Arabic can enhance the ability to work and interact effectively in Arabic speaking countries.

**ACHIEVEMENTS**

The department invites experts on different subjects from within and outside the state to deliver extension lectures. There is also a faculty exchange arrangement with other departments within campus for intra disciplinary learning. The department intends to reciprocate the scholastic and non-scholastic exchange with other universities within India and abroad. In addition to our departmental teaching work, Arabic language courses are being offered to School of Management Studies, Department of Mathematics, Department of Islamic Studies and Department of English Language and Literature in the university.

As of now two scholars have been awarded M.Phil and PhD in integrated mode. Currently 16 scholars are pursuing PhD programme on full time basis.

Academic Council conducted on 11-02-2021 discussed the academic significance of B.A Hon's Arabic and recommended the course to be introduced in the constituent Degree College of IUST in future under the auspices of Arabic Department.

The department has been able to establish linkages with some Embassies in New Delhi like those of Saudi Arabia, Jordan and Qatar and also with Arabic departments of various Universities in India. The embassies have extended support in form of books, magazines, journals, and newspapers related to the subject. Currently some pass out students of the department have opted for various jobs in both corporate sectors on National/Multinational level. Many pass outs have qualified NET/SET examinations in recent past and have been appointed as faculty in higher education department.

As part of various scholastic activities, the department held extension lectures in the previous academic session. A Five-Day International workshop on "Arabic Translation: Theories and Praxis" was organized by the department on the eve of UNESCO, world Arabic Language Day from December 20-24, 2021. The workshop brought scholars from India and Arab World for the benefits of scholars and researchers.

The department has been in continuous process of assessment and revision of the curriculum in the light of feedback from Scholars, Students, Stakeholders, and opinions of experts from other universities in accordance with the UGC requirements from time to time.

## FUTURE PLANS

- ❖ Advance Diploma in Arabic.
- ❖ Offline/Online Certificate Courses.
- ❖ Establishment of a smart classroom for Audio Visual facilities for providing conducive atmosphere for language learners.
- ❖ Establishment of Centre for Translation within the department.



# DEPARTMENT OF ENGLISH LANGUAGE AND LITERATURE

## VISION

The department of English Language & Literature endeavors to be recognized for excellence in teaching and mentoring, exemplary scholarship, development of avid readers, skilled writers, and informed intellectuals; service to the University, Community and profession; promotion of academic freedom, and human as well as academic integrity.

## MISSION

We believe in the power of language to educate and enlighten through the study of literature, the department nurtures student and faculty fervor for, and study of the vast discipline of English Studies.

The department is committed to train undergraduate and graduate students, who go on to use their knowledge of and proficiency in English Language and literature in diverse fields.

## INTRODUCTION

The Department of English Language and Literature was established in 2008 with an aim to strengthen and develop a deepened understanding of language and literature, the value of critical reading and effective writing, and the richness of literature, past and present. We endeavor to develop a literary temper among students by providing a platform from which they can explore the relationship between historical texts and their diverse influence on modern society. We seek to foster knowledge and a love of literature and language in our students and believe the study of traditional and new genres will inspire creative and original thought while also enabling students to communicate concisely, fluently and with acumen. The curriculum focuses on a variety of literary, analytical, pedagogical, and theoretical areas encouraging critical thinking. The department stepped into the arena of undergraduate studies with the introduction of B.A (Hons) Programme in English in 2017.

**YEAR OF ESTABLISHMENT:** 2008

## ACADEMIC PROGRAMMES

- ❖ **B.A. English (Four Year Undergraduate Programme)**
- ❖ **Master of Arts (M.A) in English**
- ❖ **Ph.D. Programme**

## ABOUT THE COURSES:

### **B.A. English (Four Year Undergraduate Programme)**

In accordance with NEP (2020), the department is offering a four-year undergraduate programme (FYUGP) from Academic Session 2022. The four-year programme (Level 5 -Level 8) with a Major in 'English Literature' has multiple entry and exit options and gives flexibility to



students to earn a certificate, a diploma, a three-year degree or a four-year honours or research degree as per NEP guidelines. Apart from the Major discipline, the programme includes courses ranging from Interdisciplinary Minor (in aid of major), Multidisciplinary, Skill, Ability Enhancement and Value-Added courses to be selected from the pool of available courses. As envisioned in the NEP (2020), the programme will provide multidisciplinary, holistic & vocational education.

**DURATION:** 04 Years (08 semesters)

#### WHO CAN APPLY?

Having passed 10+2 with a minimum of 45% marks from the J&K Board of School Education or from any other recognized board.

#### Master of Arts (M.A) in English

The Master's program in English offers subjects ranging from Contemporary British Literature to Indian Writing in English, from World Literature to Contemporary Critical Approaches with a wide range of fiction, non-fiction, drama and poetry from the 19th and 20th centuries. Deeper understanding of canonical and innovative approaches to English literature is apportioned through different courses covering significant literary texts and movements from the age of Chaucer in the 14th century to the present. Special emphasis on current debates in Literary Theory, lesser known but significant literatures and courses in Linguistics give students an insight into the structure and the function of natural languages as a system of cognition and communication. The Choice Based Credit System, encourages the students to select courses from literature and other disciplines as well.

**DURATION:** 02 Years (04 semesters)

#### WHO CAN APPLY?

Bachelor's Degree or equivalent with a minimum of 45% marks from a recognized University/ Institution with English Literature as one of the subjects in at least 04 semesters/ 02 Years at UG level **OR** B.A. (Hons) English.

#### Ph.D. Programme

The department offers a direct PhD Programme in English. The objective of the PhD Programme is to provide advanced specialized knowledge in a particular area of study, for details, refer to IUST Ph.D. statutes. The eligibility, intake capacity, procedure of selection shall be notified separately.

#### PROGRAMME EDUCATIONAL OBJECTIVES

- ❖ Develop excellent proficiency in oral, written communication and literary expression.
- ❖ Develop students' creative and analytical skills to become good researchers and writers in the field of Literature
- ❖ Encourage students' understanding and awareness of global perspectives; their literary production and impact.
- ❖ Equip students to build a successful career path in the field of writing, communication, teaching, administration and English Studies

#### FACILITIES



The Department of English Language & Literature has a state-of-the-art Digital Language Lab which has been established to foster and chisel language skills of the students necessary in the present world driven by information communication technology. This lab is equipped with modern software like Sky pronunciation, study skills, Eng. Pro, etc. which helps the students to acquaint themselves with all the four skills of Language learning. The students can learn as well as monitor their progress through this software simultaneously.

## **CAREER PROSPECTS**

English graduates can work in diverse areas with potential career paths including teaching, journalism, publishing, editing, media, language training etc. The program provides excellent preparation for students intending to proceed for PhD work and will also be of interest to teachers and other graduates in literary fields seeking further personal or professional studies.

## **ACHIEVEMENTS/ACTIVITIES**

- ❖ Many students of the department have cleared competitive examinations – NET/SET and GATE
- ❖ Alumni of the department have been selected by JKPSC as Lecturers/Assistant Professors
- ❖ B.A (Hons) graduates are pursuing Master's degree in different universities like Aligarh Muslim University, Jamia Millia Islamia, JNU etc
- ❖ Many alumni are currently pursuing PhD from different Universities.

## **FUTURE PLANS**

The Department plans to offer Certificate Course in Soft Skills and Personality Development.



# DEPARTMENT OF ISLAMIC STUDIES

## VISION

The Department of Islamic studies envisions to be a leading educational and research institute with the aim to nourish the skills and provide the tools to explore the scholarship of Islam; the scholarship that leads to a serious academic engagement with the pedagogy, theories, and research schemes of the discipline of Islamic Studies. The Department envisions to nourish the learners competent in Islamic legislation, conversant with today's challenges and able to meet the societal requirements whatsoever.

## MISSION

The mission of Islamic Studies Department is to produce a generation of trained scholars and thinkers who are simultaneously working professionals contributing to the larger benefit of the society. It expects its graduates to be active as role models in their communities, respected both for their knowledge of the religion and integrity. The Department of Islamic Studies takes its students through a rigorous and critical study of the classical Islamic sciences and their sub-disciplines along with the modern and contemporary discourses in Islam. Alongside the Islamic sciences, the contemporary challenges and issues faced by global audience in general and Muslims in particular, are a core focus of the curriculum. Students are encouraged to develop an informed understanding of the shared and divergent values to cultivate the essential religious virtues of respect and tolerance.

## INTRODUCTION

Islamic Studies as an academic discipline is a contemporary approach of studying Islam. It is an umbrella term and draws on a variety of fields that include Islamic Civilization and Culture, Islamic History, Islamic Social Sciences, Islamic Scientific Heritage, Islamic Philosophy, Tasawwuf, Comparative Religions, Interfaith Dialogue, Gender Studies, Islamic Economics and Finance, and Human Rights. With the tools of interdisciplinarity and comparative approach it sheds light on the multiple expressions of Islam as a spiritual tradition, the role of Islamic civilization in global history and the importance of Islamic discourse in the contemporary world. It examines the thought of the key Muslim intellectuals particularly of modern age and their attempts to come to terms with modernity. The areas for consideration also include renewal and reform, the impact of colonialism and globalization on Muslim discourse, independent judgement (ijtihad) and issues associated with the civil society.

**YEAR OF ESTABLISHMENT:** 2006

## ACADEMIC PROGRAMMES

- ❖ **B.A. Hons. (FYUGP) in Islamic Studies**
- ❖ **M.A. in Islamic Studies**
- ❖ **Ph.D. in Islamic Studies**

## ABOUT THE COURSES



**B.A. Hons. (FYUGP) in Islamic Studies**

The courses taught in this Programme introduced in 2023 are designed according to NEP-2020. The programme comprises a diversity of course types—Major, Minor Interdisciplinary, Ability Enhancement, Skill Enhancement, Value Added, etc. formulated to realize the holistic development of students. The programme is structured to inculcate the necessary skills, besides imparting knowledge, required for preparing a student for higher academic pursuits as well as professional life. A student who opts for research in Semester 8 and acquires more than 75% marks in aggregate will be eligible to direct admission in Ph.D.

**DURATION:** 04 years (08 Semesters)

**WHO CAN APPLY?**

Having passed 10+2 in any stream with a minimum of 45% marks from the J&K Board of School Education or from any other recognized board.

**M.A. in Islamic Studies**

The major courses taught/studied/researched in the discipline of Islamic Studies include, but are not restricted to, History of Islamic Civilization, Islamic Religious Sciences, Islamic Social Science, Tasawwuf, Muslim Philosophy, Religions and Interfaith Dialogue, Important Thinkers and Movements (South, Central and West Asia), Islam in the Modern World, Islamic Finance & Investment, Human Rights in Islam, Women in Islam, and Contemporary Muslim Societies.

**DURATION:** 02 years (04 Semesters)

**WHO CAN APPLY?**

Bachelor's Degree in any discipline with a minimum of 45% marks from a recognized University/Institution.

**Ph.D. Programme**

One of the key features of every department is the research programme and we are deeply interested in evolving solution-centric research programme. The Department has supported research relevant to its mission and objectives, and this has formed an important element of its institutional development. In this pretext, the Department is offering direct Ph.D. programme in Islamic Studies (for details, refer to IUST Ph.D. statutes). The eligibility, intake capacity, procedure of selection shall be notified separately.

**PROGRAMME EDUCATIONAL OBJECTIVES**

- ❖ To provide students with an opportunity to broaden, deepen and enrich their understanding of Islam as a discursive tradition.
- ❖ To teach students the fundamental themes of the Islamic tradition as historically interpreted by the leading scholars of mainstream as well as marginalized Islamic thought and practice.
- ❖ To promote the appreciation of an ethics-centric diversity and code of personal practice.
- ❖ To guide students in engaging positively with a diverse multi-religious and multi-cultural environment.



- ❖ Develop critical thinking skills and attitude in our students to broaden their understanding of and engagement with Islam in the contemporary times.

### CAREER PROSPECTS

The graduates of the Department have career opportunities in higher education and academics. They can also apply for further scholarships, visiting fellowships, programmes and positions in different institutions and universities across the country and abroad. In addition, they can also opt for general line teachers. Apart from the academics the graduates can be absorbed in government and semi government jobs offered from time to time, in and outside the UT.

### ACHIEVEMENTS

- ❖ The faculty members presented papers in the respective fields of interest in Sri Lanka, Turkey, Nepal and Iran.
- ❖ Under integrated M.Phil.-Ph.D programme many scholars have completed their M.Phil. And Ph.Ds.
- ❖ Establishment of Nursi Corner in collaboration with Istanbul Foundation for Science and Culture, Turkey.
- ❖ M.O.U with the IFSC, Istanbul, Turkey.
- ❖ A significant number of students have qualified NET/JRF/SET exams and have been placed in various departments, especially Higher Education.

### DISTINCTIVE ACHIEVEMENTS

- ❖ The department organized the first ever academic 10-Day International Summer School in which scholars of reputed institutes, including Georgetown University, University of Emory, and other parts of the world and India delivered their lectures.
- ❖ The Department is organising International Online Lecture Series since November 2021.

### ACTIVITIES

- ❖ The Department organised a Two-Day International Conference on "Religion and Technological Advancements: Challenges and Prospects" on 22-23 November 2023.
- ❖ The Department organised a Panel Discussion on "Environmental Crisis and Religion" under the banner of its annual programme "Message of Ramadan," on 13 April 2023. A Na't Competition was also conducted as part of the same event.
- ❖ One-day International Conference on "Islam and Interfaith Dialogue: Challenges and Prospects" was held on 10 March 2022
- ❖ Extension Lecture on "Measuring, Managing and Maximising Research Impact: Emerging Matrix" Prof. Tariq Ashraf, Librarian, jamia Millia Islamia, New Delhi, 27 December 2021
- ❖ Extension lecture of on "Does Islam Condone Misogyny, Oppression and Violence against Women", by Professor Idrisa Pandit, Wilfrid Laurier University, Canada, on 24 November 2021.
- ❖ The Department organised 1-Day Online International Nursi Conference "Rethinking Faith, Education and Science in The Muslim World" on 19-20 October 2020.
- ❖ Extension lecture by Sara Huehn on "Transculturality in Europe: Insights into Contemporary Sufi Communities from the Balkans to Germany" held on 7 March 2020.



- ❖ Extension Lecture on “Towards Re-mapping the Discipline of Islamic Studies”, Professor Abdul Majid Khan, Aligarh Muslim University, 4 July 2019.
- ❖ The Department organized 2-day International Conference on “Contemporary Discourse on Women in Islam”, on 19-20 November 2018.
- ❖ Extension lecture on “Islamic Architecture”, by Professor Idrisa Pandit, Wilfrid Laurier University, Canada, on 19 July 2018.
- ❖ The Department organized a symposium on “Message of Ramadan: The Role and Responsibility of Muslim Youth in Islam” on 5 June 2018.
- ❖ Extension lecture of on “Dissertation Writing” by Dr. Tauseef Ahmad Parray, Assistant Professor (Department of Higher Education) on 25 May 2018.
- ❖ The Department organized Sirah Symposium on “Human Rights in Light of the Sirah of Prophet Muhammad (SAAS)” on 2 January 2018.

## CO-CURRICULAR ACTIVITIES

- ❖ Winners in University Volleyball Interdepartmental Tournament 2019.

## FUTURE PLANS

- ❖ School of Islamic Studies
- ❖ Diploma in Qur’anic Studies
- ❖ Publication of an Academic Journal
- ❖ 3 Yearly International Summer School
- ❖ Syed Ali Hamdani Chair of Civilizational Studies
- ❖ Intensive Languages Programme (Arabic/Persian/Turkish)
- ❖ Advance Studies in Qur’anic & Fiqh Sciences.
- ❖ Updating of MA Syllabus as per NEP-2020.





# DEPARTMENT OF JOURNALISM AND MASS COMMUNICATION

## VISION

With its goal of creating a pool of talented and skilled communication professionals, DJMC has a vision to innovate pedagogical techniques that focus on hands-on media trainings and quality research work. The department shall continue to work towards producing technically-sound and socially-responsible media professionals to strengthen the fourth pillar of democracy.

## MISSION

- ❖ The mission of DJMC is to prepare students for leadership roles in media. The department has been focusing on inculcating problem-solving, critical thinking and innovative attitude among students.
- ❖ DJMC has been adapting to the evolving academic and professional media worlds. It aims at collaborating with media industry so as to provide the requisite professional training to students. Media students are trained thoroughly at all stages of media production, be it reporting, writing, editing, photography or broadcasting.
- ❖ Besides inculcating the theoretical aspects of Mass Communication and Journalism, the department provides practical training in print, television, radio and online journalism to its students so as to help them emerge as professional journalists in the light of National Education Policy (NEP) 2020.
- ❖ Research is another area that is among the top priorities of the department that stresses on as well as helps its research scholars produce quality research.

## INTRODUCTION

The Department was set up to cater to the growing needs of the media and communication field. The department prepares the students for the dynamically changing media landscape. As a part of regular curriculum, the department provides students an opportunity to work with different media organizations including campus news magazine, radio programme, documentaries, etc.

**YEAR OF ESTABLISHMENT:** 2008

## ACADEMIC PROGRAMMES

- ❖ **M.A. in Journalism and Mass Communication**
- ❖ **B. A. Journalism and Mass Communication (FYUGP)**
- ❖ **Ph.D. Programme**



## ABOUT THE COURSE

### M.A. Journalism and Mass Communication

The entire curriculum has been designed to groom and chisel students so as to enable them to operate skillfully and responsibly across a wide variety of media. More significantly, it prepares students to be thinkers and responsible communication professionals.

**DURATION:** 02 years (4 semesters)

#### WHO CAN APPLY?

Bachelor's Degree in any discipline with a minimum of 45% marks from a recognized University/Institution.

### B. A. Journalism and Mass Communication (FYUGP)

Drafted in compliance with the National Education Policy, 2020, the FYUGP is meticulously crafted to cultivate versatile and conscientious graduates capable of thriving in diverse media landscapes. With a holistic approach, the curriculum empowers students to master essential skills across various media platforms. The course focuses on imparting essential skills and practical training to equip graduates with the tools necessary to excel in the competitive job market.

**DURATION:** 04 years (8 semesters)

**WHO CAN APPLY?** Having passed 10+2 with a minimum of 50% marks from JKBOSE or from any other recognized board

### Ph.D Programme

To provide enhanced knowledge and encourage research, the department started direct Ph.D Programme in Journalism and Mass Communication from academic session 2018. The further details are mentioned in IUST PhD statutes, available online. The eligibility, intake capacity, procedure for selection, etc. is being notified separately.

## PROGRAMME EDUCATIONAL OBJECTIVES

The Master's programme in Journalism and Mass Communication is an interdisciplinary course of study and opens up doors to a spectrum of careers, from journalism and broadcasting to public relations, advertising and films. The curriculum of the Master's programme combines the principles of traditional journalism with the newest advances in communication technology.

## FACILITIES

- ❖ A Studio with the state-of-the-art equipment for recording and editing.
- ❖ A Radio Magazine 'Pesh Kadam' is produced and edited by the students of the department. The programmes are available at <https://iust.ac.in/peshkadam.aspx>
- ❖ Ministry of Information and Broadcasting Approved Community Radio Station, to be launched in 2024.
- ❖ Quarterly newsmagazine, The Echo, for which our students contribute news and feature stories.
- ❖ Media Lab. equipped with iMac systems with Internet and film screening facilities.
- ❖ Professional still and video cameras, audio recorders and required equipments.
- ❖ Access to local, national and international magazines, and newspapers.

## CAREER PROSPECTS

The students of the department are well placed in various reputed media organisations at local, national as well as international levels that include Yomiuri Shimbun, Aljazeera, BBC, PTI, IANS, Bar Craft, Daily News and Analysis, Associated Press, Indian Express, Radio Mirchi, NewClick, Focus TV, Radio Kashmir, Greater Kashmir, Rising Kashmir, Kashmir Reader, Kashmir Life, NDTV, Network 18, Gulistan TV, MoneyControl.com and so on.

The alumni of this department are pursuing research or working in different state, national and international universities like Jamia Millia Islamia, Aligarh Muslim University, University of Kashmir, Central University of Kashmir, University of Warsaw (Poland), Islamic University of Science and Technology etc.

Many of the students have utilized their expertise in developing own start-up projects like Jammu and Kashmir Policy Institute, She Speaks, Dream 7 productions etc.

### ACHIEVEMENTS/ ACADEMIC HIGHLIGHTS

- ❖ DJMC Alumnus Tawqeer Hussain nominated as Joint Secretary to prestigious Foreign Correspondents Club. Showkat Shafi won Drum Online Media Award for best photographer and Best use of Photography. Faza Zainab was awarded with the outstanding Media person by J&K Administration on Republic Day 2024. Dr. Tawseef Majeed appointed as Assistant Professor at Jamia Millia Islamia, New Delhi. Umar Iqbal Wani (Ph.D Scholar) awarded US Legislative and ICSSR Doctoral Fellowships. Manzoor-Ul-Hassan awarded Peace Media Fellowship (Save The Children). Syed Aadil Hussain (Ph.D Scholar) awarded Moulana Azad National Fellowship. Ufaq Fatima awarded Shujaat Bukhari Memorial Award. Nayeem Showkat awarded Post-Doctoral Fellowship at AMU. Saquib-ur-Rehman's documentary selected for screening at 15th Mumbai International Film Festival for Documentary, Short and Animation Films organized by Films Division, Ministry of Information & Broadcasting, Govt. of India. Farhat Jahans film screened at AVLOKAN-A National Documentary/ Short film Festival organized by Manav Rachna International Institute of Research and Studies. Also Insha Zafar won 2nd Prize at National Photo Event.
- ❖ The department has organised series of workshops on Interview Skills, Peace Journalism, Photography, Newspaper Layout Designing, Creative Writing, Film Production, Video Editing, Gender Sensitization, Disaster Reporting, International Humanitarian Law, so on and so forth. It has also organised educational tours to Leh and Kargil, J&K Assembly, Mughal Road and other places as well as several field visits to various media organisations. The department has also held media conclaves, chart competitions, exhibitions, film festivals and a popular street play on The Royal Shoe. Besides, significant events and days are frequently observed in the department, like Press Freedom Day, Human Rights Day, etc. Last but not least department had also celebrated World Television Day and Commemorated Marshall McLuhan on his death anniversary.
- ❖ The department has organised special lectures/interaction sessions with a number of experienced media-persons, including Mr. Saeed Naqvi (senior journalist, author and documentary producer), Sudhir R Nair (Bollywood Film Writer and Director), Mr. Ananndo Bhakto (Associate. Editor, The Sunday Guardian), Nitasha Kaul (novelist and academician based in London), Dibyesh Anand (Head of Department of Politics and International Relations and Associate Professor at London's Westminster University), Kurt Achin (Bureau Chief, VOA), Dr Waiel Awwad (Senior Foreign Correspondent & Former President FCC South Asia), Prof Sumantra Bose (noted author





and academic), Faizan –ul- Islam (Director Peace Productions), Arshid Ahmad Kaloo (Senior Editor, Greater Kashmir), FaisulYaseen (Senior Correspondent, Rising Kashmir, and Fellow at Ford Foundation), Amrita Parvez (Senior News Presenter Masaranga Television, Bangladesh), Md. Saimum Parvez (Sr. Lecturer and Expert in Global Communication and International Relations, North-South University, Dhaka, Bangladesh), Professor Geeta Bamzai (former Head of Research at IIMC), Showkat Nanda (Photojournalist), Mudasir Wani (Academic Counselor, Department of IT, Central University of Kashmir), Bilal Jan (Film Maker and Writer), Sajid Hussain (Senior Layout Designer, Greater Kashmir), Mr. Crispino Nunes (Senior Associate Producer and Anchor, NewsX), Prof. Shafey Kidwai (Former Chairman, DJMC, AMU) Prof. Arbind Sinha (Advisor MICA), Prof. NAK Durrani (Former Chairman, DJMC,AMU) , Dr Nirmala Mani Adhikari (Communication theorist)and so on.

- ❖ Journalism students regularly participate in various competitions and festivals at local and national levels and win laurels for the varsity.
- ❖ They also intern with reputed media organisations like BBC, Aljazeera, The Indian Express, Asian Age, The Times of India, The Tribune, CNN IBN (Network 18), Press TV, NDTV, Zee Television, ANI, IBN-7, CEMCA (Commonwealth Educational Media Centre for Asia), Doordarshan Srinagar, Doordarshan Delhi, ETV- Urdu (Hyderabad), Greater Kashmir, Rising Kashmir, News X, Financial Express, Big 92.7, daily Kashmir Reader, Radio Kashmir and so on.

## **DISTINCTIVE ACHIEVEMENTS**

- ❖ The department has produced more than 400 episodes of weekly radio magazine 'PeshKadam' aired on 102.6 FM fortnightly on alternate Sundays at 9 pm.
- ❖ More than 35 editions of the newsmagazine 'The Echo' have been published by the department.
- ❖ The students of the department have produced more than 30 documentaries and have been actively participating in various documentary festivals/competitions.
- ❖ A good number of students have qualified NET/SLET/JRF. In the year 2023-24, three students from the department qualified NET.
- ❖ The Students of the department are recipients of various national and international prestigious fellowships such as: ICSSR Doctoral and Post-Doctoral Fellowships, Peace Media Fellowship (Save the Children), Moulana Azad National Fellowship, US legislative fellowship and, the Reach NCD Fellowship.

## **FUTURE PLANS**

- ❖ Establish School of Communication and Media Studies.
- ❖ Publication of a research journal
- ❖ Maximize department's outreach (Industry, Community and Alumni)



# AVERROES CENTRE FOR PHILOSOPHICAL STUDIES

## VISION

The Centre is striving hard to emerge as centre of excellence for cross-disciplinary research and scholarship in different branches of philosophical studies such as ontology, epistemology, metaphysics, ethics etc across spatio-temporal trajectories.

## MISSION

The Centre provides exemplary environment and opportunity to scholars and researchers to foster and develop theoretical and applied interdisciplinary research in philosophical studies. Further the Centre shall be committed to educate students of the University in the various schools of philosophy.

## OBJECTIVES

- ❖ to impart an all-inclusive and comprehensive understanding of Philosophy as a discipline both at basic and advanced levels
- ❖ to develop a thorough understanding of classical, medieval and modern concepts in Western, Indian and Islamic Philosophy
- ❖ to encourage engagement with substantive philosophical questions and debates of contemporary concern
- ❖ to create a body of scholarly work that reflects not only the philosophical orientation of students and researchers but also a world-view compatible with a liberal and multicultural educational scenario
- ❖ to organize workshops, conferences and talks to help students and researchers gain expert knowledge, enhance their professional and personal development and keep them updated with the cutting-edge of research
- ❖ to promote multi-disciplinary engagement and research with other areas/disciplines to address contemporary socio-political and ethical issues and challenges
- ❖ to foster research that underscores and helps explore the interdisciplinary essence and new vistas of philosophy
- ❖ to inculcate among students and researchers critical philosophical thinking and to ensure meaningful learning in a way that philosophy influences the manner in which they engage with reality

## INTRODUCTION

Averroes Centre for Philosophical Studies has been named after the Muslim polymath and jurist, Ibn Rushd whose philosophical works especially his insightful commentaries on Aristotle earned him the title of the 'Commentator and Father of Rationalism'. Referred to as Averroes in Latin West, Ibn Rushd not only paved the way for philosophy as one of the three valid paths of arriving at religious truths but also had a lasting influence on medieval thought and the Western philosophical tradition. He underscored the significance of a critical and philosophical engagement with religion to unravel not only the deeper meanings of Islam but also to arrive at a true and correct understanding of the divine. As such, to name a research centre of philosophical studies after him, means to perceive the relation between philosophy and religion, the non-contradiction of reason and revelation and the consilience of eastern and western philosophical paradigms.



The Centre shall function as a teaching and research centre with regard to classical, medieval and modern schools of philosophy across spatio-temporal trajectories. The Centre shall provide opportunities to students and researchers to build a formidable foundation in Philosophical Studies and contribute to the existing body of scholarly work through their learning and understanding of philosophical concepts such as Ontology and Epistemology (Western, Indian and Islamic), Metaphysics (Western, Indian and Islamic), Value theory, Symbolic Logic, Philosophy of Religion, Social and Political Philosophy etc.

## ACADEMIC PROGRAMMES

The Centre has been established to engage in fundamental questions about reality, knowledge and value besides helping develop an interdisciplinary approach to learning. To accomplish this objective, the Centre offers M A Programme, Research (Ph D) and Open Elective Courses in Philosophy.

- ❖ **M.A. Philosophy**
- ❖ **Ph.D.**
- ❖ **Open Elective Courses**

## ABOUT THE COURSE

### M.A. Philosophy

The syllabus for M A programme in Philosophy has been designed to impart an all-inclusive and comprehensive understanding of Philosophy as a discipline both at basic and advanced levels. It aims to develop a thorough understanding of classical, medieval and modern concepts in Western, Indian and Islamic Philosophy. Further the syllabus shall help students engage with substantial philosophical questions and debates of contemporary concern.

## OBJECTIVES:

1. The programme aims at an empirical and critical understanding of the concepts of Western, Indian and Islamic Philosophy.
2. It offers a holistic and multi-dimensional approach to engage with reality within the paradigms of philosophy.
3. It aims at imparting knowledge of ancient, medieval and modern schools of philosophy.
4. It aims at preparing students for pursuing research or careers in any any area of philosophy and allied fields.

## OUTCOMES:

1. To develop critical thinking, rational apprehension and problem-solving capacities.
2. To understand, analyze and interpret philosophical concepts and challenging texts.
3. To deal with questions of logical and analytical reasoning and value.
4. To respect and appreciate diversity through the study of different philosophical schools.





**DURATION:** 02 years (4 semesters)

**WHO CAN APPLY?**

Bachelor's degree in any stream with 50% marks in aggregate for general candidates and 45% for reserved candidates.

**ABOUT RESEARCH:**

In recent years, attempts have been made to locate traditional Western canon in Philosophical Studies within a plurality of intellectual tradition. The Centre with its focus on interdisciplinary research, aims to examine the points of difference and intersection between philosophical perspectives and approaches. A central component of this research is to challenge texts and their authors to discern further clarifications/interpretation; to study and critically challenge the history of ideas that have shaped basic ethical values, political systems/ideals, the nature of knowledge and science, and the fundamental structure of reality.

**ABOUT OPEN ELECTIVE COURSES:**

The Centre shall also offer the following 05 courses of 02 credits each as Open Electives from the academic session 2022.

1. PHI-001: Foundations of Philosophy
2. PHI-002: Political Philosophy
3. PHI-003: Philosophical Foundations of Research
4. PHI-004: Indian Philosophy
5. PHI-005: Muslim Philosophy

An open elective course in Philosophy helps instil general principles of theoretical thinking, create an awareness with regard to answers to philosophical questions and develop skills like reading and understanding complex materials--all of which are necessary to obtain knowledge of reality. This branch of Philosophy known as ontology or the study of being is concerned with what actually exists in the world about which we as humans can acquire knowledge. Students here at the Centre shall find themselves raising questions in epistemology by inquiring about the scope and limits of human knowledge. As such, opting for an open elective course in Philosophy shall help students grapple intellectually with questions not only related to philosophy but other subjects also. Questions of value remain invariably important for students and therefore courses in social and political philosophy shall prepare you to be thoughtful and responsible citizens. An important function of Philosophy is to foster deeper reflection on concepts, methods and issues that are fundamental within other disciplines. The courses offered by the Centre, shall deepen your understanding of other disciplines be it Science, Literature, Humanities and Art and thereby necessarily pave way for an interdisciplinary approach to learning.

**FACILITIES**

The Centre provides good support system, a section in Rumi Library with adequate books and internet access.

**THRUST AREAS**

- ❖ Ethics and metaphysics
- ❖ Epistemology and ontology



- ❖ Rationalism and Empiricism
- ❖ Relationship between God, Man and the Universe
- ❖ Doctrines of Sufism

### ASPIRATION OF THE CENTRE

The Centre in the next five years shall strengthen its interdisciplinary, flexible and collegial environment to emerge as one of the most diverse and erudite repository of philosophical studies. The Centre with the help of creative and talented students and scholars from different backgrounds shall enhance its reputation both within and outside the country for research and research-led teaching, strengthen its commitments to building an inclusive community of equals and improve diversity while being innovative, responsible and the best in all that it does.

### FUTURE THRUST AREAS

- ❖ To achieve the aspiration of the Centre, it shall:
- ❖ Focus on small group teaching by offering 2 credit open elective courses as support to the choice-based curriculum of the University.
- ❖ Develop modules comprising of contemporary areas like political philosophy, social philosophy, Western and Eastern philosophy, and other underrepresented topics in philosophy and its history.
- ❖ Develop Cotutelle PhD arrangements that include the IUST and some leading universities within and outside the country.
- ❖ Develop and share innovative and creative pedagogies leading to the integration of various disciplines with an aim to enhance learning across the curricula of various schools of the University.
- ❖ Connect the Centre across the University through various vertical and horizontal measures.
- ❖ Offer interdisciplinary programmes of unrivalled flexibility in emerging areas.
- ❖ Create resources by approaching various funding agencies.

# HABBA KHATOON CENTRE FOR KASHMIRI LANGUAGE & LITERATURE

## VISION

To cultivate interest of the spiritual and perennial human values and unique cultural mores of Kashmir through mother tongue in the younger generation of research scholars so that they feel connected to their roots and well acquainted to the cultural, aesthetic, and literary traditions propounded by great scholars of aesthetics and literary figures who have shaped the contours of Kashmir's cultural legacy.

## MISSION

To highlight the salient features of Kashmiri Language and literature by conducting research on the distinctive characteristics of the Kashmiri language and the predominant themes of Kashmiri poetry, Kashmiri fiction, drama and folk literature and to equip the research scholars with modern tools of critical scrutiny and literary theory.

**YEAR OF THE ESTABLISHMENT:** 2018

## PROGRAMME EDUCATIONAL OBJECTIVES

Enlightenment, Emancipation and Nateness

## ABOUT THE CENTRE:

Habba Khatoon Centre for Kashmiri Language and Literature was established in recognition of the national significance of the Kashmiri Language in the 8th schedule of the Constitution. The Kashmiri Language has been declared as one of the official Languages of the Union Territory of Jammu and Kashmir and that there is a special focus on Mother Language in NEP 2020. The Centre has therefore tremendous potential to grow and blossom into a dynamic academic and research Centre to disseminate knowledge tradition as well as to enshoulder the responsibility of highlighting valuable literary and cultural past of Kashmir that personifies Kashmiri Language and culture which has shaped the contours of the collective psyche of the people of Kashmir, universal brotherhood and peaceful co-existence over several thousand years. The Centre also aims at conducting research on Kashmir Studies, Sufi/Rishi Tradition, and Women's Contribution to Kashmiri Literature, Intellectual Background of Classical and new Sensibilities in Kashmiri Literature. Habba Khatoon Centre for Kashmiri Language and Literature also intends to publish a reputed research journal in the near future. The Centre is organizing Conferences/Seminars/Work-shops (International/National) on various themes and aspects of Kashmiri Literature-Classical and Modern. The Centre's programmes are guided by an Advisory Council with membership from distinguished institutions who have made a mark in the field of Kashmiri Culture, Language and Literature.

## ACADEMIC PROGRAMMES

- ❖ **Ph.D. Kashmiri Language and Literature**
- ❖ **Open-Elective Courses**
  - Kashmir, Kashmiris and Kashmiri Language





- Kashmiri: The impact of the other Languages
- Kashmiri Language: Script and Alphabet
- Kashmiri Poetry and Kashmir
- A-1 Kashmiri Language (FYUGP)

## ACHIEVEMENTS

- ❖ DRC for First Ph.D. in the Centre held on 21st November 2023.
- ❖ Conduct of Seminar on Kashmiri Literature on 21st Feb; 2022.

## FUTURE PLANS

- ❖ MA in Kashmiri
- ❖ Kashmiri English Dictionary
- ❖ Publishing of Research Journal
- ❖ Translation of some significant Literary master pieces
- ❖ International Conference/Workshop on Translation
- ❖ Advanced research on Spiritual Aspect of Kashmiri Poetry, Folk Literature, Literary Criticism Modern Kashmiri Prose and Poetry





# INTERNATIONAL CENTRE FOR SPIRITUAL STUDIES

## Introduction

The International Centre for Spiritual Studies was established as a research centre in 2011 with an aim to help students to broaden their horizons of thinking and inculcate special traits like patience, empathy, compassion, tolerance, acceptance, brotherhood and respect for all. In view of this, "Moral and Spiritual Studies" was introduced by the Centre in the University curriculum as a compulsory non-credit course to inculcate moral and spiritual values among the students.

In 2017, credits have been assigned to the "Moral and Spiritual Studies I and II" courses and there has been an overwhelming response of students to opt for these Open Elective courses. Recently, The Centre convened Board of Studies (BoS) wherein syllabus of the fifteen (15) Open Elective courses including seven (7) Multi-Disciplinary Courses (MDC), four (4) Value Added Courses (VAC) and five (4) Skill Enhancement Courses (SEC) were approved. The proposed scheme of courses is in tune with the provisions of NEP 2020.

## Vision

To emerge as the Centre of Excellence in the region by attracting scholars across the world to study and contribute to the studies and research on spirituality in different religious traditions and to promote better understanding and response to spiritual crises of the postmodern man by encouraging peace and interfaith dialogue through spiritual paradigm. In this regard, the centre envisions creating a model whereby moral and spiritual values would be accommodated in the curriculum for promoting an integral concept of education to be offered by the University to the students.

## Mission

The Centre is conceptualized and established to encourage studies and research on various aspects of comparative spirituality and to provide a spiritual response to the growing ideological conflicts and cultural and intellectual challenges of the world. ICSS is an academic and research-oriented Centre with a mandate of working on such issues that have largely marginalized the spiritual development of the present-day human being. Besides, engaging with diverse spiritual traditions of the world along with a focus on such traditions that have been enriching the spiritual heritage of Kashmir, the Centre aims at exploring issues in comparative religion and mysticism.

## Activities

- ❖ Open Elective Courses
- ❖ Research Programme
- ❖ The International Journal of Spirituality
- ❖ Seminars and Conferences

## Open Elective Courses

The Centre currently offers the following three Open Elective courses:

- ❖ Spiritual Studies (02 credits)



- ❖ Moral Studies (02 credits)
- ❖ Meditation (03 credits)

### Academic Programme

- ❖ **Ph.D. in Spiritual Studies**
- ❖ **Open Elective Courses**

The Centre currently offers nine Open Elective courses in the Autumn Session and eight courses in the Spring Session:

#### For Autumn Session:

Moral & Spiritual Studies I (CCS01E)/ Introduction to Spirituality (SS-MD-01)/ Tasawwuf (Sūfī Tradition): Origin and Development (SS-MD-02)/ Spiritual Heritage of Kashmir-I (SS-MD-03)/ Science and Spirituality (SS-MD-05)/ Applied Ethics (SS-VD-01)/ Business Ethics in Islam (SS-VD-02)/ Calligraphy (SS-SE-01)/ Spoken Sanskrit (SS-SE-03)

#### For Spring Session:

Moral & Spiritual Studies II (CCS02E)/ Spiritual Heritage of Kashmir-II (SS-MD-04)/ Early Sūfī Works: An Introduction (SS-MD-06)/ Sūfī Silsilāhs: Organization and Development (SS-MD-07)/ Basic Human Values (SS-VA-03)/ Bioethics (SS-VA-04)/ Spoken Persian (SS-SE-02)/ Spoken Hindi (SS-SE-04)

### About the Course

From the year 2023, ICSS has started the Ph.D. programme in Spiritual Studies. In light of the vision and mission of the Centre, we at ICSS aspire to attract research scholars to study, research and contribute to the field of spirituality as found in different religious traditions, with special reference to Islam. Besides, research at ICSS shall promote a better understanding of the spiritual crises of the post-modern man by encouraging peace and interfaith dialogue through spirituality. The thrust areas for research in the Centre will be multidisciplinary, interdisciplinary and trans-disciplinary in nature and application. Some of the key areas of research encompass:

- ❖ Spirituality in different religious traditions. A comparative study
- ❖ Moral and Spiritual Crises of the present age and the possible remedies
- ❖ Inter-religious Dialogue and the Role of spiritual personalities and Sufis
- ❖ Medication, meditation and spiritual healing
- ❖ Science and Spirituality
- ❖ Spiritual Ecology
- ❖ Moral and Spiritual values and peaceful co-existence
- ❖ Peace, harmony, inter-religious understanding and dialogue among civilizations
- ❖ Feminism, religions and spirituality
- ❖ Mystical Heritage of Kashmir



**Who can apply?**

The candidates possessing a Master's degree in Humanities, Social Science, Arts and other allied subjects from a recognized University shall be eligible for admission to Ph.D. in Spiritual Studies. The selection would be based on the performance in the Entrance Test and Presentation before the selection committee. However, the aspirants with JRF/NET/SET are exempted from Entrance Test as per UGC guidelines.

**The International Journal of Spirituality**

The International Journal of Spirituality (TIJOS) with ISSN 2347-9566 has been started by the Centre, to establish a unique research atmosphere in the university. TIJOS is a multi, inter and trans-disciplinary publication of the ICSS which seeks to create a platform for scholars of the world across disciplines to bring to forefront the multi-faceted spiritual heritage of different religious traditions, to promote critical engagements with modern ideologies and institutions and to illuminate hitherto ignored aspects of traditional heritage as they relate to a widespread crisis in moral, intellectual and spiritual domains world over. TIJOS encourages submission of research articles from scholars world over on all facets of spirituality, religion, mysticism, Gnosticism, mystical history and comparative religious literature.

**Seminars and Conferences**

The Centre regularly organizes seminars, conferences, workshops and extension lectures to promote a better understanding of the spiritual crisis of a postmodern man and to explore the meaning and relevance of traditions in evolving an appropriate response.

**Future Plans**

- ❖ Certificate course in ṣūfī-Rīshī Tradition in Kashmir
- ❖ Certificate course in Indian Mystical Thought
- ❖ Certificate course in Shaivism
- ❖ Establishment of a State of Art International Sufi centre is envisioned to be constructed on the pattern of Khanqāh-e-Mu'alla of Srinagar
- ❖ Establishment of a Translation Bureau and Publication Division for translating and publishing manuscripts from Sanskrit, Kashmiri, Arabic and Persian into English
- ❖ Preparing an Encyclopedia of Sufism in Kashmir
- ❖ Publishing monographs-depicting lives and teachings of major ṣūfī and Rīshī scholars of Kashmir
- ❖ Academic collaboration with the universities and research institutes of the world in the form of MOUs



# RINCHEN SHAH CENTER FOR WEST HIMALAYAN CULTURES

## MISSION

To apply multidisciplinary research, advocacy and teaching practices in studying West Himalayan societies, cultures, trade and politics with an aim to holistic understanding of mankind and socio-cultural development of this region.

## INTRODUCTION

The Rinchen Shah Center for West Himalayan Culture, primarily established as a research centre, shall strive, to undertake in-depth research studies: with focus on socio-cultural profile of indigenous ethnic groups of west Himalayan region. The Center defines "West Himalaya" as the regions known to us today as Kullu-Manali, Lahul-Spiti, Ladakh, Gilgit-Baltistan, Kashmir, Jammu and the hill tracks. The ethos of centuries-old co-existence of diverse cultural groups, Viz. multi ethnicity, multi religiosity, multilingualism, the factors which bind together diverse/distinct human groups cutting across state and national boundaries, present a classic area of study for understanding human kind in contemporary era.

Thus, the broad scope of this centre would be to study socio-cultural similarities and variations of this region in the background of overlapping ethnic, cultural and linguistic affiliations that create a continuum of frontier cultures.

The Centre has published a book and several research articles on the area. The Centre has been working on several research projects.

## ACADEMIC PROGRAMME

### ❖ Ph.D. Programme

## ACHIEVEMENTS

The Centre has published much research paper including a book. The Centre has been awarded several major Research Project by various National and State funding agencies. The Centre has also organized One Week Workshop on Research Methodology in Social Sciences.

## FUTURE PLANS

Moving forward, the Centre would like to carry out in –depth study and research on the west Himalayan areas focusing upon traditional socio-cultural heritage, trade, cultural relations and contemporary social realities and issues in the West Himalayan areas.



## SCHOOL OF SCIENCES

The School of Sciences has been instituted to provide high-quality science education with practical experience in Basic Sciences to our youth coming from diverse communities. The aim is to broaden their perspectives in terms of scientific inquiry, leadership development, civic engagement and academic rigor. It envisions to develop an academic pool with an international character, where students from different backgrounds can combine their talent for a common goal. The school is focusing to provide comprehensive educational experience, combining theoretical knowledge with practical skills and a commitment to cutting edge research.

The school has created a learning environment to foster deep understanding, creativity, innovation, personal development, and the possession of professional skills to cultivate critical thinking, creativity, and practical skills among students and scholars. Besides, the school has produced highly skilled students and scholars with innovative ideas who have translated their skills into commercial innovations and regional growth. The faculty members in the school are highly skilled, have good expertise in problem solving, critical thinking, and presentation, adhere to the standards of instruction, and are actively engaged in research. The prestigious post-doctoral fellowships, Ramanujan Fellowships, and Ph.D.'s from renowned institutes across India and outside by the faculty suggest a strong commitment to research excellence.

In all the departments of the school, the curriculum has been designed to effectively meet the challenges of the current innovative and skill environment, providing students with a solid foundation for success.

Currently, there are five departments and three centers under the School, each with a definite role for the broader mission of the School.

### DEPARTMENTS

- ❖ Department of Chemistry
- ❖ Department of Mathematical Sciences
- ❖ Department of Physics
- ❖ Department of Zoology
- ❖ Department of Environment, Sustainability and Climate Change

### CENTRES

- ❖ Mantaqi Centre for Science and Society
- ❖ Centre for Disaster Risk Reduction
- ❖ Frontier Research Institute on Interdisciplinary Research





# DEPARTMENT OF CHEMISTRY

## VISION

To advance intellectual, technological, and economic growth of the Union Territory of J & K and overall country through continuous quest of instructive excellence and cutting-edge research in the field of chemical sciences.

## MISSION

The Department of Chemistry strives to:

- ❖ Prepare the students for entry into Ph.D. programmes, academics, and carriers in various IITs, IISERs, and R&D laboratories at national and international level.
- ❖ Facilitate the learners/researchers with laboratories which are equipped with modern instrumentation like FTIR, UV Spectroscopy, Spectro-fluorometry, TGA, Rheometry, etc. and high-end computational facilities for molecular modelling and energy conversion and storage.
- ❖ Act as mentors to postgraduates advising them in developing scientific aptitude for cutting edge research and in scripting projects and research proposals relevant to current societal needs.
- ❖ Teach students the value of cross-disciplinary thinking by providing them with educational and research opportunities in chemistry and other fields of study.
- ❖ Promote innovative curriculum development while exposing students to advanced instrumentation and technology.

## INTRODUCTION

Since its inception in 2016, the department endeavors to inculcate the skills relevant to current educational and research prospects. To meet this objective, in the last two year's department has developed two PG laboratories, two R&D laboratories, and one B-Tech Laboratory. These laboratories are equipped with sophisticated instruments like FTIR, HPLC, UV-Vis, and Fluorescence Spectrophotometer, Brookfield Viscometer, Centrifuge, Freeze dryer, Steam distillation units (for essential oil extraction) along with other instruments of routine use like pH-meters, conductivity-meters, potentiometers, etc to provide hands-on experience to the students so that they will find themselves suitable for both academia and industries. We have also recently developed a high-end computational laboratory with high performance cluster (HPC) facility and quantum chemistry software packages like Gaussian 16, Q-Chem and VASP. Further, our focus is to develop and inculcate entrepreneurship skills in students. In this regard, recently we have launched a perfume by the brand name SEHR and two new startups for financial support related to soap manufacturing and natural dye extraction and packaging have been submitted to EDC cell. In 2018 department started the Ph.D. program to develop quality research in the fundamental and applied areas of Chemistry. The current focus of the department is to carry out research in the most challenging and interdisciplinary areas of chemistry in line with the demands of the 21st century. The endeavor of the department is to carry out research on the following themes for a better future: Molecularly Imprinting Polymers for Treatment of Waste Water, Materials (Hydrogels) for Drug delivery, Conducting Polymers for use in Fuel Cells, Computational



Material Science for energy conversion, storage and Catalytic applications, Zeolites/Ion Exchange/Catalysis/Ion Selective Electrodes, Extraction of valuable phytochemicals from natural flora, Amphiphile biomolecule interactions, Materials Chemistry.

### PROGRAMME EDUCATIONAL OBJECTIVES

The objectives of the programmes offered by the Department of Chemistry is to make students understand the fundamentals of Chemical Sciences and inculcate in them necessary laboratory skills based on basic and sophisticated instruments in the department for careful measurements and interpretation of data. During the programmes offered in the Department, a student is expected to learn how to work independently using his own intellect and a set of skills gained to solve chemical problems of industrial and societal importance.

**YEAR OF ESTABLISHMENT:** 2016

### ACADEMIC PROGRAMMES

- ❖ **M.Sc. in Chemistry**
- ❖ **B. Sc. Chemistry (FYUGP)**
- ❖ **Ph.D. in Chemistry**

### ABOUT THE COURSE

#### **Master of Science (M. Sc.) in Chemistry**

A master's student from the Department of Chemistry can aspire for higher studies in top institutes of high repute from the country and all over the world. The students will be further able to obtain employment in educational institutes, research and testing laboratories, pharmaceutical and food processing plants and in medical/pharmaceutical/scientific companies as analysts and technicians. The demand for new and increasingly sophisticated analytical techniques, new instrumentation, automation and computerization, and regulatory requirements have opened new opportunities for Chemists in other areas like chemical or forensic analysis, process development, product validation, quality control, toxicology, drug formulation and development.

**DURATION:** 02 Years (04 Semesters)

### WHO CAN APPLY?

Bachelor's Degree in Science with a minimum of 45% marks from a recognized University/ Institution with Chemistry as one of the subjects in at least 04 semesters/ 02 Years at UG level **OR** B.Sc. Hons Chemistry/ Industrial Chemistry **OR** B.E/B. Tech. Chemical Engineering.

#### **B. Sc. Chemistry (FYUGP)**

The integrated FYUGP chemistry+1 year M.Sc. will impart advanced knowledge of basic and applied chemical sciences to the graduates. It will prepare the students for taking up challenging assignments in academia and industry and also empower them with skill and knowledge for generating employment for their own and others. The program introduces the students to advanced developments in chemical sciences as well as in the field of other allied sciences, by providing them multidisciplinary and interdisciplinary courses. The design of choice-based



curriculum can enrich students with analytical and problem-solving capabilities. It is designed to bring out the best of the abilities of each student, allow them to sharpen the scientific temper and be abreast with the contemporary developments in the area.

**DURATION:** 04 Years (08 Semesters)

### Exit Options

04 Years (08 Semesters) - B.Sc. (Hons/Research) Degree (Plus 01 Years Master subject to fulfillment of the eligibility)

03 Years (06 Semesters) - B.Sc. Degree

02 Years (04 Semesters) - Diploma

01 Year (02 Semesters) - Certificate Course

### WHO CAN APPLY?

Having passed 10+2 with a minimum of 55% marks with Chemistry as one of the subject from JKBOSE or from any other recognized board

### Ph.D. Programme

The Department of Chemistry started the Ph.D. programme in 2018. At present, the department has research strength particularly in the fields of soft material design and computational material science, synthetic organic chemistry with state-of-art experimental and computational facilities/softwares. The eligibility, intake capacity, procedure for selection, etc. is notified every year separately as per the PhD statutes of the university.

### RESEARCH THRUST AREAS

- ❖ Materials (Hydrogels) for removal of dyes, heavy metal Ions, PAHs and Delivery of Drugs
- ❖ Synthesis of supramolecular cages and macrocycles for separation and drug delivery
- ❖ Inorganic and Organic Materials of Industrial, Medicinal and Environmental Relevance
- ❖ Computational Material Science for Energy and Catalytic Applications Research
- ❖ Extraction and isolation of High value phytochemicals from various medicinal plants
- ❖ Spectroscopic and thermodynamic investigation of proteins or drugs in aqueous medium
- ❖ Transition metal organometallics for sustainable catalytic processes
- ❖ Total synthesis of bioactive compounds.

### FACILITIES

The Department in the last two years has focused on the development of laboratories to provide hands on experience to the students so that they will find themselves suitable for both academia and industries. The Department has sophisticated classrooms with projector facilities installed. In terms of laboratories for undergraduate and postgraduate courses, the Department has three well equipped laboratories with sophisticated instruments like FTIR, HPLC, UV, Fluor spectrometer, Brookfield Viscometer, Centrifuge; Freeze dryer, Steam distillation units for essential oil extraction along with other instruments of routine use like pH-meters, Conductivity-meters, Potentiometers, Water analyzer. Recently, we have also developed two research laboratories: one in the field of soft materials and other in computational materials and catalysis. The soft materials lab is equipped with high end instruments such as Rheometer and Freeze dryer. The computational materials



and catalysis laboratory has six computer desktops, one HPC cluster with one master and three compute nodes, licensed quantum chemistry packages such as Gaussian16, VASP and Q-Chem.

### ACHIEVEMENTS / ACADEMIC HIGHLIGHTS

Department of Chemistry-IUST has produced three batches of master's students, many of whom are currently pursuing Ph.D. in different universities of the country. The Department has organized many workshops and conferences by inviting eminent speakers on topics of national and international importance. The department is also highly active in conducting community outreach programmes. In this short span, the Department has already published more than 70 papers in journals of international repute.

### DISTINCTIVE ACHIEVEMENTS

The Department of Chemistry has set up three quality research laboratories in a very short span of time. These include Computational Materials and Catalysis Laboratory, Soft Material Laboratory and Organic synthesis laboratory for the design of supramolecular cages and macrocycles. The department has the distinction of producing students with not only academic potential but also skill development potential. In November 2018, Department of Chemistry in collaboration with EDC launched the "SEHR" perfume which was an EDC sponsored Start-up project. The project was initiated towards entrepreneurship driven ecosystem and to change the mindset of people from being job seekers to being employers.

- ❖ Highly Qualified & Experienced Faculty with PhD And Postdoc From Reputed Institutions Like IISC, IIT, NCL, JMI And AMU
- ❖ High-end Facilities (FTIR, HPLC, LCMS, Fluorescence & UV-Vis Spectrophotometers, Rheometer, Lyophilizer, HPC Cluster)
- ❖ Extramural Research Projects Sponsored by DST-SERB, UGC, JKST, CIED, NMPB
- ❖ Placement and Progression to Higher Studies /Industry
- ❖ Entrepreneurship Development and Start-up Projects
- ❖ IT Enabled Classrooms
- ❖ Well Established Library Facilities
- ❖ More Than 100 Publications In Reputed International Journals In Last 3 Years

### ONGOING RESEARCH PROJECTS

Supramolecular Schiff-base Chiral Macro cycles with Amine, Hydroxyl, and thiol Functionalization for the Recognition of Chiral Biological Anions	SERB
Nanomaterial reinforce smart Trizole based hydrogels systems for removal of antibiotics, polyaromatic hydro carbons and toxic heavy metal ions	J&K STIC
Gastric-resistant Hydrogels based on modified natural polymers has potential drug delivery agents.	SERB
Establishment of germplasm of the high value medicinal and aromatic plants at IUST-Campus II	IUST
Fluorescence and Colorimetric Chemosensors for Environmental Mercury (Hg <sup>2+</sup> ) and Fluoride (F <sup>-</sup> ) detection.	DST

### FUTURE PLANS

The Department plans to start five-year undergraduate programme in chemistry in the near future. Keeping in view the growing competition, Department of Chemistry is also planning to initiate efforts towards making arrangement for NET/GATE coaching for the students. The Department also envisages to develop world class instrumentation facilities with state-of-the-art instrumentation and computational facilities. Further, the Department plans to start various skill development courses in tune with NEP-2020 to cater to the growing needs of the unemployed youth.



# DEPARTMENT OF MATHEMATICAL SCIENCES

## VISION

To foster a climate of scholarship and learning that allows each student to develop his or her ability to think clearly and independently, to provide them insights into and instill appreciation for the ideas and reasoning that characterize mathematical sciences and to prepare them to lead examined lives as responsible members of society.

## MISSION

To hone the quantitative skills of students, to equip them with mathematical tools necessary to facilitate the application of classroom knowledge in many fields and to use an interdisciplinary, student-centered approach to teaching and learning.

## INTRODUCTION

The Department of Mathematical Sciences is the first department in Jammu and Kashmir, and among a few in India, to offer a course in actuarial mathematics. The Department now offers a rigorous 4-year undergraduate programme with specialization in actuarial and financial mathematics as well as a PG program in actuarial statistics, in addition to Ph.D. in mathematics and statistics. The Departmental faculty members make every effort to nurture an environment that values academic excellence and a creative spirit among students.

**YEAR OF ESTABLISHMENT:** 2009

## ACADEMIC PROGRAMMES

- ❖ **B.Sc. Mathematical Sciences (Four Year Undergraduate Programme)**
- ❖ **M.Sc. Statistics**
- ❖ **Ph.D. Mathematics**
- ❖ **Ph.D. Statistics**

## ABOUT THE COURSE

### **B.Sc. Mathematical Sciences (Four Year Undergraduate Programme)**

In line with the New Education Policy (NEP) the Department is now offering a four-year undergraduate program that will prepare students for a career in mathematics with special emphasis on actuarial / financial mathematics as well as postgraduate work in mathematics, statistics or related field. In this program, students can major in mathematics with a minor in actuarial mathematics. In addition to a broad spectrum of mathematics courses, the curriculum for this course includes business and finance courses, and courses that hone IT and communication skills. The program also includes a research component in the fourth year. Students can earn a certificate, a diploma, a three-year degree or a four-year honors or research degree by utilizing the various exit options available as per NEP guidelines. This program



will also give our students the competitive edge in the financial industry that a traditional undergraduate program in mathematics would be unable to provide.

**DURATION:** 04 Years (08 Semesters)

#### **WHO CAN APPLY?**

Having passed 10+2 with a minimum of 45% marks from the J&K Board of School Education or from any other recognized board with Mathematics as compulsory subject.

#### **M.Sc. Statistics**

This program offers specialization in statistical sciences. This two-year degree offers advanced-level study in the theory, methodology and applications of Statistics combined with specific training in selected areas of Statistics and adjacent sciences. Depending on their selected area of specialization, students who successfully complete this curriculum will be capable of working as statisticians, actuarial analysts and experts in scientific labs, government offices, and research facilities.

**DURATION:** 02 Years (04 Semesters)

#### **WHO CAN APPLY?**

Bachelor's Degree with a minimum of 45% marks from a recognized University/ Institution with Mathematics/ Statistics/ Applied Mathematics as one of the core subjects in at least 04 semesters/ 02 Years at UG level **OR** B.Sc. Actuarial and Financial Mathematics.

#### **Ph.D. Programme**

The department is offering Ph.D. programmes in Mathematics / Statistics for details, refer to IUST PhD statutes. The eligibility, intake capacity, procedure for selection, etc. shall be notified separately.

#### **PROGRAMME EDUCATIONAL OBJECTIVES**

To provide our students the mathematical tools necessary to facilitate the application of classroom knowledge in the real world. By offering the relevant mix of mathematics and statistics courses, together with some finance, IT and communication courses they are equipped with the skills necessary for today's competitive job market.

#### **FACILITIES**

The Department has a well-equipped smart multi-media lab equipped with WiFi/LAN, overhead projector and an interactive screen as well as SPSS and R software which are used to complement our statistics courses and for analyzing statistical data. The lab is also used for conducting our Excel in Business classes as well as other classes using ICT tools. We also have a second ICT enabled classroom with a projector and motorized screen. There is also a small reading area with seating, book rack, white board and table that is as a focal point for student discussions, problem solving and student-teacher interactions outside of classroom.





## ACHIEVEMENTS / ACADEMIC HIGHLIGHTS

- ❖ The Department faculty have bagged a collaborative PURSE project of Rs. 10 crore and had also bagged four research projects worth Rs. 27.15 lakhs previous to that. In addition to these projects, two new projects has been sanctioned /approved to the Department by JKST&IC in December-2023.
- ❖ A two-day regional workshop on "Research and Opportunities" was organized in which eminent speakers from ISI Kolkata, Panjab University Chandigarh, Shiv Nadar University, University of Calcutta, IIT Kanpur, Harish-Chandra Research Institute and ISI Bangalore, gave talks on mathematics and statistics. The workshop was organized by Indian Women and Mathematics (IWM) in association with Department of Mathematical Sciences, IUST, funded by National Board of Higher Mathematics, India.
- ❖ The Department conducted a Math Festival at Larnoo Kokernag for school children in which close to 120 students from various schools participated. This is part of our math outreach program IMPACT
- ❖ The Department organized several special lectures on various topics including career opportunities in math, statistics and actuarial sciences. The speakers included Dr. Divya Sharma, UNESCO's Education Policy and Research Consultant., Prof. Jitendra Kumar, Central University of Rajasthan, Prof. Kanchan Jain, Panjab University Chandigarh, Prof. Shamik Gosh, Jadavpur University, Prof. Amitabh Tripathi, IIT Delhi, Mr. Tawfeek Ahmad Shah, Associate Project Lead at Escalent Noida.
- ❖ The Department celebrated International Women in Mathematics Day, National Statistics Day and National Mathematics Day with invited lectures, screening of documentaries etc
- ❖ The Department organized a student interaction session with Prof. Dinesh Singh (Hon'ble Chancellor K.R. Mangalam University, India).
- ❖ Orientation programs for new students were also conducted to appraise them about the University and Departmental facilities and rules, program requirements and career prospects of our courses.
- ❖ The Department also conducts a coaching program for Actuarial Common Entrance Test (ACET) for students. This is run by several faculty of the department as well as an actuarial analyst.
- ❖ Several of our students have found good jobs as actuarial or financial professionals after graduation. The employers include the Aon Hewitt, American International Group, Ernst & Young, Deloitte, RR Donnelley, Amazon, National Sample Survey Organization, Ministry of Drinking Water & Sanitation, J&K State Finance Department, Bayer, MetLife, State Bank of India and J&K Bank. Few others have gone on to teaching careers.
- ❖ Our faculty members are active in research and continue to publish in reputed journals. Last year our faculty published a total of 52 journal articles and 2 book chapters. They have also given many invited lectures at both international and national conferences and meetings. and also been resource persons for UGC sponsored workshops. Our faculty attended a total of 15 national or international workshops and conferences during the past year.

## DISTINCTIVE ACHIEVEMENTS

The Department started Mathematical and Actuarial Consultancy Services (MACS) in 2018. Through MACS we have provided actuarial consultancy to State Life Insurance and further work is going on. Some of our students have also been provided hands-on training at MACS to understand the practical aspects of actuarial work.

## FUTURE PLANS

The Department will offer short-term certificate courses in statistical techniques relevant to business and research. We are also considering offering Undergraduate and Postgraduate programs in Data Science.



# DEPARTMENT OF PHYSICS

## VISION

The Department of Physics envisions being a center of excellence in higher education and research through rigorous training in both experimental as well as theoretical physics. Through strong academics and creative research, we envisage to develop scholarship in students which will enlighten their minds. The enlightenment needed to take society to a higher plane of existence, where knowledge is the identity; respect for humanity and peaceful coexistence is the goal.

## MISSION

The way of imparting education will be such as to prepare the dynamic graduating students ready to compete and contribute in the today's ever-changing, technology driven world through their skills, both applied and theoretical. The curriculum is designed to provide the basic and in-depth knowledge of the subject relevant to current educational and research scenario along with the job market demands. The thrust will be upon the important role of physics in electronic industry, energy studies, nanotechnology, material science etc. At the same time equal emphasis will be laid on theoretical physics in order to polish and groom the intellect of students to dig deeper into the mysteries of nature that forms the cornerstone of civilizational development. In order to keep our curriculum challenging, vibrant and relevant, the participation of faculty and students in workshops, meetings and conferences is encouraged.

## INTRODUCTION

The department of physics was established in the year 2016 with a mandate to primarily impart post-graduation in physics. The department produced four batches so far. The students were highly satisfied with the quality of teaching, both theoretical as well as practical, as reflected in their feedback. Some of these students proceeded for higher education in national institutions. In 2019 the department has also started Ph. D programme. The Ph. D scholars are provided scholarship by the university if they do not get it from any other source.

The department will start the Four Year Undergraduate program from current academic session i.e 2024 in tune with the New Education Policy (NEP) and keeping in view the developments in science and technology the courses like Artificial Intelligence and machine learning have be included in the curriculum.

**YEAR OF ESTABLISHMENT:** 2016

## ACADEMIC PROGRAMMES

- ❖ **M.Sc. in Physics**
- ❖ **B. Sc. Physics (FYUGP)**
- ❖ **Ph.D. in Physics**

## ABOUT THE COURSE

### Master of Science (M. Sc.) in Physics

The M.Sc. Physics course content is designed in such a way that a student develops understanding of the subject as well as achieves the necessary theoretical and practical skills at basic and advanced level through core and specialized courses. More importantly, to instill the interdisciplinary spirit in students the open elective courses are offered. The course content is in tune with the syllabus of the different national and state level competitive exams. In the first two semesters, emphasis is laid on core and discipline centric courses. Specialization is offered in the third semester to learn the advanced physics.

In the fourth semester a core course on Nano-Technology is offered to inspire the students to pursue research in this promising field. In order to expose the students to the nitty-gritty of research, a major project is offered in the fourth semester. The students are encouraged to carry out the project work at different institutes and industries in the country in collaboration with the competent and experienced human resource available there. As a part of the curriculum promising students will be sent to attend the Summer/Winter schools at different institutes of the country to develop research acumen in them.

**DURATION:** 02 Years (04 Semesters)

### WHO CAN APPLY?

Bachelor's Degree in Science with a minimum of 45% marks from a recognized University/ Institution with Physics and Mathematics as core subjects in at least 04 semesters/ 02 Years at UG level **OR** B.E/B. Tech (with Physics and Mathematics as subjects for at least two semesters/ one year) **OR** B.Sc. Hons Physics.

### B. Sc. Physics (FYUGP)

As a beacon of academic excellence and a catalyst for the pursuit of knowledge, the Islamic University of Science and Technology, Awantipora, stands committed to broadening educational horizons and empowering the forthcoming generation of scholars. In line with this vision, the Department of Physics at the Islamic University of Science and Technology, Awantipora, Kashmir, is proud to introduce a Four-Year Undergraduate Program (FYUGP) in Physics starting from the academic year 2024, aligned with the principles of the New Education Policy 2020 (NEP 2020). Deliberately crafted, the program's curriculum is finely tuned to meet the evolving demands of the future job market and the latest advancements in science and technology. Its primary objective is to equip students for diverse and promising career pathways in scientific research, academia, industry, and beyond, while imparting a robust grounding in both theoretical and experimental physics. Embracing an interdisciplinary approach, the program fosters exploration of the interconnectedness between physics and other domains such as engineering, computer science, artificial intelligence, machine learning, quantum computation, quantum information, nano-technology, and beyond.

**DURATION:** 04 Years (08 Semesters)

### Exit Options

04 Years (08 Semesters) - B.Sc. (Hons/Research) Degree (Plus 01 Years Master subject to fulfillment of the eligibility)

03 Years (06 Semesters) - B.Sc. Degree





02 Years (04 Semesters) - Diploma

01 Year (02 Semesters) - Certificate Course

### WHO CAN APPLY?

Having passed 10+2 with a minimum of 55% marks with Physics and Mathematics as subjects from JKBOSE or any other recognized board

### Ph.D. Programme

The Department of Physics has started Ph. D program from 2019. The department aspires to develop quality research in the fundamental and applied areas of physics. The current focus of the department is to carry out research in the most challenging and interdisciplinary areas of physics in line with the demands of the 21st century. The research of the department currently is primarily focused in the following areas: Nuclear Physics/ Material Science/ Astrophysics/ Optics for details, refer to IUST PhD statutes. The eligibility, intake capacity, procedure for selection, etc. shall be notified separately.

### FACILITIES

- ❖ The department has growing research laboratory facility with state of art materials characterization instruments.
- ❖ The department has well-equipped general physics, electronics and optics laboratories for B.Tech. Engineering & M.Sc. Physics courses.
- ❖ The department also shares the university computation laboratory with other departments.
- ❖ The department has its own library facility with wide variety of books available on physics.

### CAREER PROSPECTS

M.Sc. Physics is embedded with courses which can fetch a student career in research, academics and even in industry. Along with core courses, both theoretical and practical, student in M.Sc. Physics learns courses like Radiation Physics, Computer Programming which can fetch him/her a good job in IT and medical sector as well. A student with Ph. D in physics can also have career in academic, research and industry.

### ACTIVITIES

- ❖ The department conducted an outreach program for B.Sc. students of Govt. Degree Colleges of Pulwama and Anantnag on 04-12-2023, to motivate them to take higher studies in Physics.
- ❖ The department organized a stage show in Physics" on 17-10-2023, wherein Prof. Bagwan Dattatreya Chahkrado, Prof.(retd.), demonstrated the joy of learning science through experiments, using his self designed equipments.
- ❖ The department organized a popular lecture "Shapes and Symmetries of Atomic Nucleus" by Prof. Sukalyan Chattopadhyaya, Professor, Saha Institute of Nuclear Physics Kolkata on 22-09-2023.
- ❖ The department organized a special lecture "Physics Empowering Medicine: Navigating Cancer Diagnosis and Radiation Safety" by Prof. Malik Mohibul Haq, Professor, Sher-i-Kashmir Institute of Medical Sciences (SKIMS), Soura, Srinagar on 05-09-2023.
- ❖ The department organized a lecture series on Atomic and Molecular Spectroscopy by Prof. Yashiro Auzma, Professor, Department of Materials and Life Sciences, Sophia University, Tokyo, Japan from 14-05-2023 to 24-05-2023.



- ❖ The department organized one day INSPIRE program for the students of secondary and higher secondary schools on 14-12-2022.
- ❖ The department organised special lectures and popular talks by Prof. V. Ravishankar, Prof. Yoshiro Azuma, Dr. Sultana Nuran Nahar and Prof. Saeed Ud Din on various topics during the year 2022.
- ❖ The department organized two day INSPIRE: Catch the Young programme for college and school students on 28th and 29th March 2022.
- ❖ The department organized online career counselling for students on 18th Feb. 2022, by Dr. Shah Tavseef Mairaj, Postdoctoral Scientist at Hamburg University of Technology, Germany.
- ❖ The department in collaboration with Department of Physics, University of Kashmir organized three-day international conference on "27th International Conference of International Academy of Physical Sciences on Frontiers in Physics from 26th to 28th October 2021.
- ❖ The department has also organized two special lectures on Many Faces of Entropy and Astronomy with Radio Waves by Prof. Rajaram Nityananda, former Centre Director of the National Centre for Radio Astrophysics of the Tata Institute of fundamental Research on 2nd and 3rd April, 2021.
- ❖ The department conducted one week summer school on "Quantum Mechanics" from 29th of July 2019 to 4th of August 2019.
- ❖ The department has organized one week Faculty Development Programme on "Emerging Trends in Physical Chemical and Mathematical Sciences" from 14-20 February 2019.
- ❖ The department has organized two-day workshop on "Nanoscience - Opportunities and Challenges" on 4th and 5th of September 2018.
- ❖ Lecture Series on Electrodynamics and Special Theory of Relativity delivered by Prof. V. K. Tripathi, Formerly Professor, Department of Physics, IIT Delhi.
- ❖ Lecture Series on Mathematical Methods in Physics delivered by Prof. Manzoor Ahmad Malik Professor, Department of Physics, University of Kashmir.
- ❖ The department has organized a popular talk on Black Holes by Dr. Mir Faizal, Adjunct Faculty, University of Waterloo, Canada.

## ACHIEVEMENTS

- ❖ In year 2022, two students qualified GATE 2022.
- ❖ The department has published 50 research papers in reputed international journals during the last five academic years.
- ❖ One of the faculty Mr. Farooq Hussain Bhat received the membership of American Physical Society (APS) in 2016.

## DISTINCTIVE ACHIEVEMENTS

- ❖ Our department has received research grants from various national funding agencies like DST, SERB, UGC, JK DST & IUST worth more than one crore.

## FUTURE PLANS

- ❖ Implementation of NEP-2020.
- ❖ Establishment of Environmental Isotope Lab in Collaboration with IIT Ropar.
- ❖ Signing more MoUs with other institutes.
- ❖ NET- JRF, GATE Coaching for passed out students.



# MANTAQI CENTRE FOR SCIENCE AND SOCIETY

Transforming Knowledge into Practice

## VISION

Mantaqi Centre for Science and Society aspires to combine research and education in natural sciences with the insights of social sciences and humanities in order to utilize fresh perspectives on major public issues involving science and technology.

## MISSION

The Centre will bring together natural scientists, social scientists and policy makers to engage in innovative and interdisciplinary research projects and make science relevant to our community and future generations. Through conferences, workshops and publications the Centre will disseminate outstanding work and encourage scientific enquiry skills critical to future innovation.

**YEAR OF ESTABLISHMENT:** 2010

## ACADEMIC ACTIVITIES

The Mantaqi Centre for Science & Society offers Open Elective courses keeping in view the NEP-2020 objectives.

Courses being offered from autumn session, 2022:

- ❖ Climate Change Biology (2 credits)
- ❖ Basics of Skill Development (2 credits)
- ❖ Disaster Management (2 credits)
- ❖ Substance abuse and mitigation (3 credits)
- ❖ Environmental Geology (2 credits)
- ❖ Sustainable development investment planning in South Asia (3 credits)
- ❖ Global History of Science (2 credits)

## RESEARCH ACTIVITIES

An array of research activities supported by national and international funding agencies is undertaken at the Centre. Following is the list of on-going and completed research projects:

- ❖ Multi-Proxy Study to Reconstruct the Late Pleistocene Palaeoclimate Anomaly using Loess Palaeosol Archives from the Kashmir Valley funded by University Grants Commission – New Delhi (Ongoing)
- ❖ Reassessment of World Swallowtail Butterflies funded by International Union for Conservation of Nature (IUCN), Switzerland (Ongoing)





- ❖ Understanding the biodiversity of Odonata (Class Insecta) of Kashmir Himalayan Region with reference to Climate Change funded by Department of Science & Technology (DST) Government of India (Completed)
- ❖ To investigate the mechanistic basis of anomalous Polycomb inhibition in Prostate Cancers funded by Indian Council Medical Research (ICMR), New Delhi (Completed)
- ❖ Strategy & Action Plan for Strengthening the Ecological Integrity of the Dal Lake funded by UNDP-ATREE, Bangalore (Completed)

## EXTENSION ACTIVITIES

- ❖ The Centre organized an Awareness and Sensitization programme against Drug Abuse in community 31/03/2023 as part of its community engagement.
- ❖ Nukkad Natak against Drug Abuse was organized by the Centre on 23/03/2023 on the University campus.
- ❖ Painting and Slogan writing activity followed by group discussions was organized on 16/03/2023.
- ❖ One-day Workshop on Fundamentals of University Outreach was organized on 15/12/2022.
- ❖ Cleanliness Drive along Jhelum banks in collaboration with Dean Students office and Municipal Committee, Awantipora.
- ❖ Trekking to Wastoorvan with local youth for environmental awareness organized on 8/12/2022 in collaboration with Department of Physical Education.
- ❖ Commemorated World AIDS Day in collaboration with Mantaqui Nursing College.
- ❖ One-day Seminar on institution of 'Zakat and Fasts: Socio Religious and Scientific Perspective'.
- ❖ Organized One-day programme on Earth-Day 2022 on 22nd April, 2022. The event was organized in collaboration with the office of the Dean of Students.
- ❖ Organized special talk on Astronomy: An interesting Science under Science & Society Lecture Series on 11 January 202, delivered by Prof. Naseer Iqbal, Professor of Physics & Registrar, IUST, Awantipora.
- ❖ Organized Biodiversity Month-2020 in IUST, Awantipora in December 2020.
- ❖ Organized a special talk on Biodiversity of Odonata (class Insecta) of the Himalayas under Nature Lecture Series delivered by Dr. K. A. Subramanian, Scientist-E & Officer-in-Charge, Southern Regional Centre, Chennai, Zoological Survey of India, Ministry of Environment, Forests and Climate Change, Government of India on 21 December, 2020
- ❖ Organized a special talk on "Biogeography of the Himalayas" under Nature Lecture Series delivered by Dr. G. Ravikanth, Senior Fellow (Associate Professor), Ashoka Trust for Research in Ecology and the Environment (ATREE), Bengaluru, India, on 16 December 2020.
- ❖ Prepared the first Environmental/Green Audit Report (2021-22) of the Islamic University of Science & Technology (IUST) Awantipora, Kashmir.
- ❖ The Centre is part of the reports on "The Global Taxonomy Initiative in Support of the Post-2020 Global Biodiversity Framework, CBD Technical Series No. 96", Secretariat of Convention on Biological Diversity (CBD), Montreal, Canada. 2021, and City Biodiversity Index- Srinagar & Jammu cities, prepared by the J&K Biodiversity Council.



# SCHOOL OF ENGINEERING & TECHNOLOGY

The School of Engineering and Technology (SoE&T) at the Islamic University of Science & Technology is the largest school within the university and is renowned for its distinguished reputation. The school has approximately 120 highly competent and experienced faculty members who attend over 2000 students across Seven Departments, one Polytechnic College, and Four Centres.

Notably, SoE&T has achieved recognition as one of the country's top-performing Engineering and Technology Schools, implementing the "Technical Education Quality Improvement Programme" (TEQIP-III) funded by the World Bank through the Ministry of Education, Government of India.

The School of Engineering and Technology boasts successful alumni, who have received appreciation at various national and international organizations, both in employment as well as in research. The school comprises of the following:

## DEPARTMENTS

- ❖ Department of Civil Engineering
- ❖ Department of Computer Science & Engineering
- ❖ Department of Computer Science
- ❖ Department of Electrical Engineering
- ❖ Department of Electronics Communication & Engineering
- ❖ Department of Food Technology
- ❖ Department of Mechanical Engineering

## COLLEGES

- ❖ Polytechnic College



## CENTRES

- ❖ Design Innovation Centre
- ❖ Kalam Academy of Skill Development and Training
- ❖ Centre for Renewable Energy and Sustainable Technologies
- ❖ Centre for Artificial Intelligence

Teaching and learning methodologies within the School continually evolve, ensuring students acquire the latest technological skills for global employment. The curriculum emphasizes a multitude of holistic approaches, including problem-solving, project-based learning, experiential learning, and exposure to innovation & entrepreneurship, shaping students into well-rounded professionals with high moral values. Further, emphasis is also given to interdisciplinary/multidisciplinary modes of education, especially through skilling courses, generic electives and open electives. The curriculum is regularly updated, keeping in view the latest industry trends.

Research activities have been flourishing over the past few years, with the school seeing significant growth and contributions in various areas, including research projects, publications, collaborations, patents, and research scholars, with an increase in the thrust areas. IUST also serves as a consulting organization to the Government of Jammu & Kashmir and other organizations, providing consultancy services in Engineering & Technology and other social sectors. The SoET has witnessed the establishment of highly relevant research centres in fields of Artificial Intelligence, Renewable Energy, Sustainable Technologies and Skilling.

The programs of study, including B-Tech ECE, EE, CSE, CE, FT and MCA, are AICTE-approved, and the future vision includes obtaining NBA accreditation for all programs and achieving high NIRF rankings and NAAC grading. The introduction of new programmes like M. Tech in AI are proposed for the year 2024.

## ACADEMIC HIGHLIGHTS

- ❖ Adoption of Revised AICTE Model Curriculum 2023 for B. Tech programmes through the BoS of respective departments.
- ❖ Minor degree/Specialization Honours (Batch-2023-onwards) as per AICTE in the following areas like:





- Electric Vehicle Technology
  - Energy System Engineering
  - Food Quality and Safety.
  - Robotics and Automation
  - Computational Mechanics.
  - Sustainable Infrastructure.
  - Artificial Intelligence
- ❖ *Internship of students in some of the leading institutions/training organizations like IIT Kanpur, IIT Delhi, IIT Kharagpur, IIT Ropar, IIT Bombay, IIT Mandi, ALTTC Gaziabad, C-DAC, NIELIT, DUCAT, PepsiCo, Nestle India, Danone Nutritcia, BONN Industry, Haldirams, PGCIL, NHPC.*
  - ❖ *Students obtaining international internships in renowned institutions located countries like Poland.*
  - ❖ *Facilitating students through counselling & mentoring to qualify for the GATE Examination and seek admission in premier institutes like IIT/IISc in M-Tech and integrated Ph.D. programmes.*
  - ❖ *Activation of NPTEL Chapter under SWAYAM Initiative.*
  - ❖ *Roll out of NPTEL Courseware over Institute's intranet.*

## SKILL HIGHLIGHTS

- ❖ *Establishment of Kalam Academy of Skill Development and Training*
- ❖ *Establishment of the latest skilling labs in all engineering disciplines with an emphasis on generating skilled youth. These labs have been established in areas like Multimedia & Design, HVAC, Solar, CADD, VLSI, Vegetable & Fruits, Bakery.*
- ❖ *Offering Skill courses under Pradhan Mantri Kaushal Vikas Yojana (PMKVY 4.0).*
- ❖ *Offering Soft Skill Courses.*

## RESEARCH HIGHLIGHTS

- ❖ *A sizeable number of scholars registered in Ph.D. Programmes in all the 7 departments comprising SoE&T*
- ❖ *Cutting Edge Technologies under Industry 4.0*
- ❖ *Granted Funding support to the extent of Rs 26.0 crores by the Higher Education Deptt, UT of J&K, for implementing 02 projects; IUST High-performance Computational facility over Cloud (IUST-Cloud) and Establishment of Centre of Excellence to promote innovation, incubation and start-ups.*



- ❖ SoE&T has successfully implemented around 40 R&D Projects funded under Collaborative Research Scheme (CRS) of TEQIP-MHRD, Seed Capital Grant Scheme of MHRD and University's own funding scheme.
- ❖ Successful Completion of 15 R&D Projects Under Collaborative Research Scheme (CRS) worth Rs 2.0 Cr(approx.), by collaborating with IIT's/NIT's and other premier technical institutes.
- ❖ Sanction of approximately 28 research projects by JK STIC in 2024.
- ❖ Increase in number of Research Scholars to 90.
- ❖ IUST Research Fellowships also provided.
- ❖ Filing of more than 27 patents under Design Innovation Centre.
- ❖ Quality Control Lab by Ministry Food Processing and Industry, Govt. of India with project outlay of 3.50 Crores in the Department of Food Technology. The laboratory has received accreditation from the National Accreditation Board for Testing and Calibration Laboratories (NABL).
- ❖ High-Performance Computing Lab, e-Yantra Embedded Systems & Robotics Lab, AICTE Idea Lab by the Department of Computer Science & Engineering.

## ADDITIONAL HIGHLIGHTS

- ❖ The Institution Innovation Council (IIC) of the Ministry of Education has awarded IUST a prestigious 4-star ranking, acknowledging its commendable efforts in nurturing innovation, fostering an entrepreneurial ecosystem, and capacity building. The School's pivotal role in securing this award is evident, reflected in its diverse departments: Civil Engineering, Computer Science & Engineering, Computer Science, Electrical Engineering, Electronics Communication & Engineering, Food Technology, and Mechanical Engineering. Additionally, the Polytechnic College and Centers for Innovation & Entrepreneurship Development, Design Innovation, Kalam Academy of Skill Development and Training, Renewable Energy and Sustainable Technologies, and Artificial Intelligence contribute to the comprehensive educational environment.
- ❖ SoET Technical Exhibition to showcase the innovative projects developed by students on Foundation Day 2023.
- ❖ ATAL AICTE sponsored FDP 2023 by the Department of Electrical Engineering
- ❖ Departmental level Workshops and Seminars are conducted in 2023.
- ❖ Departmental level outreach activities, including alumni meet, outreach programmes, industrial visits, etc conducted in 2023.

In conclusion, the School of Engineering & Technology at IUST stands as a beacon of academic excellence, innovation, and research, contributing significantly to the field of Engineering and Technology in the country.



# DEPARTMENT OF CIVIL ENGINEERING

## VISION

The Department has a vision to attain the excellence in education potential. Further, it has a vision to create a sustainable and equitable society through core and innovative research and through outreach programmes.

## MISSION

The Mission of the Department is to:

- ❖ Create a sustainable environment for Civil Engineering professionals.
- ❖ Foster collaborative research.
- ❖ Focus research on technical perspectives of environmental and social issues.
- ❖ Enhance the industrial consultancy domain.
- ❖ Improve the quality of technical education by incorporating advanced skills and expanding the coverage of Civil Engineering fields.

## INTRODUCTION

Established in the Academic Year 2009, the Department of Civil Engineering at IUST Kashmir stands as a pillar of academic excellence and innovation. Our department offers undergraduate instruction leading to a four-year B.Tech. Degree in Civil Engineering, along with Ph.D. research courses since 2019. Our commitment extends beyond traditional academics to foster a holistic learning environment that prepares students to excel in the dynamic field of Civil Engineering. We take pride in our strong alumni network, comprising graduates who have made significant contributions to the industry, academia, and society. Many of our alumni hold key positions in government sectors, private companies, and research organizations. Their success stories inspire and guide our current students, reinforcing the value of a degree from our department.

At the heart of our department's ethos is a robust industry and community connect. Through partnerships with leading industry players and collaborations with local communities, we offer students opportunities for real-world engagement and experiential learning. Field visits, internships, and collaborative projects provide students with invaluable insights and practical skills, ensuring they are well-equipped to tackle real-world challenges upon graduation.

Our commitment to fostering industry-relevant skills extends to placement opportunities for our students. The department boasts a strong track record of placements, with students securing positions in esteemed organizations across the globe. Our industry ties and alumni network play a crucial role in facilitating these placement opportunities, ensuring our graduates are well-positioned for success in their careers.

**YEAR OF ESTABLISHMENT:** 2009



**ACADEMIC PROGRAMMES:**

- ❖ **B.Tech. Civil Engineering.**
- ❖ **B.Tech. Civil Engineering (Lateral Entry) for Working Professionals.**
- ❖ **Ph.D. Civil Engineering.**

**ABOUT THE COURSE****B.Tech. in Civil Engineering**

The focus of the Programme is on skill-based courses tailored to industry demands and societal needs. These courses cover streams such as Structural Engineering, Environmental Engineering, Transportation Engineering, Geotechnical and Geo-Environmental Engineering, Water Resources Engineering, Construction Planning and Management and more. In addition to core subjects, students have the opportunity to specialize in areas like earthquake-resistant designs, tunnelling technology, and transportation planning. The practicality and aligning with use of software technologies is important aspect in the course contents. The curriculum is designed to align with AICTE guidelines and incorporates the Choice Based Credit System (CBCS) to provide students with specialized knowledge and skills.

**DURATION:** 4 Years (8 Semesters)

**WHO CAN APPLY?**

Candidates having passed 10+2 from the J&K Board of School Education or from any other recognized board with Physics, Chemistry & Mathematics as compulsory subjects **AND** Having appeared in JEE Main (Paper-I) 2024.

**B.Tech. in Civil Engineering (Lateral Entry) for Working Professionals**

AICTE's introduction of B.Tech. programs for working professionals marks a significant stride in higher education accessibility and relevance. Tailored to accommodate the demanding schedules of working individuals, these programs offer flexibility without compromising academic rigor. By bridging the gap between theoretical knowledge and practical application, AICTE empowers professionals to enhance their skill sets, advance their careers, and contribute more effectively to their respective industries. This initiative not only promotes lifelong learning but also strengthens the workforce by producing well-rounded, industry-ready professionals capable of driving innovation and economic growth.

**DURATION:** 3 Years (6 Semesters)

**WHO CAN APPLY?**

Passed Minimum 3 years / 2 years (Lateral Entry) Diploma examination with at least 45% marks (40% marks in case of candidates belonging to reserved category SC/ST) in **ANY BRANCH** of Engineering and Technology **OR** Passed B.Sc. Degree from a recognized University as defined by UGC, with at least 45% marks (40% marks in case of candidates belonging to reserved category (SC/ST) and passed 10+2 examination with Mathematics as a subject **AND** Be a Professional working in Registered Industry/ Organization (Central/State)/ Private/ Public Limited Company/ MSMEs with a Minimum of 01-year full time/ Regular Working Experience.



### Ph.D. Programme

At present, the department offers Ph.D. research opportunities focusing on cutting-edge areas within Civil Engineering. Our research areas include but are not limited to:

- ❖ Fire Resistance: Investigating innovative approaches to enhance the fire resistance of structures, including advanced materials and construction techniques.
- ❖ Durability Studies on Concrete: Exploring the long-term performance and durability of concrete structures, with a focus on improving sustainability and resilience.
- ❖ Thermal Behaviour of Structures and Cold Weather Constructions: Studying the thermal response of structures under varying environmental conditions, including cold weather considerations for construction practices.
- ❖ Use of Artificial Intelligence in Structural Design: Leveraging artificial intelligence and machine learning algorithms to optimize the design and performance of civil engineering structures.
- ❖ Characterization of Concrete: Advancing techniques for the characterization and testing of concrete materials, with a focus on understanding and enhancing properties such as strength, durability, and sustainability.
- ❖ Use of Waste and recycled materials in Optimized Behaviour of Structures: Exploring innovative ways to incorporate waste materials into structural design and construction processes to improve efficiency and sustainability.

Our Ph.D. program provides a platform for aspiring researchers to delve into these critical areas, contributing to advancements in knowledge and practice within the field of Civil Engineering. The eligibility criteria, intake capacity, and selection procedure are detailed in the IUST Ph.D. statutes and PhD Policy/Ordinance.

### PROGRAM EDUCATIONAL OBJECTIVES

- ❖ Critical Thinking and problem solving based on fundamental knowledge of humanities, social science. Mathematics, science, engineering science and broad range of civil engineering technical areas.
- ❖ Consideration of global and societal concerns, ethics and sustainability when making engineering decisions.
- ❖ Leadership and effective communication.
- ❖ Civil engagement and contributions to society.
- ❖ Pursuit of lifelong learning and professional development.
- ❖ Graduates will have the necessary qualifications for employment in civil engineering and related professions, for entry into advanced studies and for assuming eventual leadership roles in their profession.

### FACILITIES

The department boasts a highly qualified faculty with expertise in various fields of Civil Engineering. Our facilities include a Skill Laboratory for CAD and a Design Lab equipped with the latest software for modelling and simulation. Additionally, we have well-equipped laboratories for Structural Engineering, Concrete Technology, Geotechnical Engineering, Highway Engineering, Surveying, Fluid Mechanics, and Environmental Engineering. We continually upgrade our facilities to keep pace with technological advancements.



## CAREER PROSPECTS

Civil engineering graduates from our department find employment opportunities in government sectors, private companies, and research organizations. Many pursue higher studies in prestigious institutions both nationally and internationally.

## ACHIEVEMENTS / ACADEMIC HIGHLIGHTS

Our Department of Civil Engineering takes pride in the numerous achievements and academic highlights of our students and faculty:

- ❖ **GATE Exam Success:** Many of our students qualify for prestigious exams like GATE (Graduate Aptitude Test in Engineering), securing admissions to esteemed institutions and opening doors to exciting career opportunities. In the calendar years gone by, numerous students from our department qualified for the GATE exam.
- ❖ **Higher Education Pursuits:** Several of our alumni have pursued higher education opportunities both nationally and internationally. Many students from the previous batch gained admission for degrees in foreign universities, while many others secured admissions for Masters and doctorates in leading NITs (National Institutes of Technology) and IITs (Indian Institutes of Technology).
- ❖ **State Sector Placements:** Approximately 200 alumni from our department have recently earned positions as Junior Engineers in the state sector. This achievement underscores the calibre and readiness of our graduates to contribute effectively to government organizations and public service initiatives. Many of our graduates have earned place in civil services and other competitive examinations.
- ❖ **Individual Entrepreneurship and company placements:** A good number of our students are working as freelancers, have done wonders in entrepreneurships, design, testing and consultancies and many are working in leading multi-national companies.

These achievements reflect the dedication and excellence exhibited by our students and faculty, reinforcing our department's commitment to academic rigor and professional development.

## DISTINCTIVE ACHIEVEMENTS

The Department of Civil Engineering at IUST Kashmir has garnered several distinctive achievements, showcasing our commitment to excellence in research, innovation, and academic pursuits.

Our department has secured significant research grants from esteemed organizations, including two grants from the Science and Engineering Research Board (SERB). These grants fund pioneering research projects that address critical challenges in Civil Engineering, contributing to advancements in the field. Additionally, we have received grants from the Jammu & Kashmir Science Technology and Innovation Council (J&KST&IC), further enhancing our department's reputation as a hub for impactful research.

Faculty members and students have been awarded prestigious International Travel Fellowships, enabling them to collaborate with leading researchers and institutions worldwide. These fellowships facilitate knowledge exchange and promote global perspectives in Civil Engineering research.





These distinctive achievements underscore our department's standing as a centre of excellence, where cutting-edge research meets real-world applications. We remain committed to pushing the boundaries of knowledge and fostering a culture of innovation to address the complex challenges facing the field of Civil Engineering.

## **FUTURE PLANS**

The department is dedicated to enhancing our infrastructure and laboratory facilities to provide students with a cutting-edge learning environment. In line with our commitment to academic excellence and meeting the evolving needs of society, we are excited to announce the introduction of M.Tech. Programs and skill-based courses. These initiatives are designed to equip our students with the knowledge, skills, and practical experience necessary to thrive in today's dynamic world.

Our M.Tech. Programs will offer advanced coursework and research opportunities, allowing students to delve deeper into specialized areas of study and contribute to groundbreaking research in their respective fields. Additionally, our skill-based courses will focus on practical, hands-on learning experiences that align with industry demands, ensuring that our graduates are not only academically proficient but also well-prepared to tackle real-world challenges.

By integrating these new offerings into our curriculum, we aim to foster a culture of innovation and entrepreneurship among our students, empowering them to make meaningful contributions to society. We are committed to continuously refining and updating our academic programs to stay at the forefront of education and address the evolving needs of our students and the broader community.



# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## VISION

To produce globally competent professionals by imparting quality education with focus on cutting-edge technology and inter-disciplinary research of high distinction, both of value and relevance to the society we serve.

## MISSION

- ❖ To provide excellent engineering education in a state-of-the-art environment.
- ❖ To prepare students to become computer professionals not only for industry but government and academia as well.
- ❖ To provide an environment in which students are given the essential resources to address, research and solve real-world problems, participating in interdisciplinary and multidisciplinary research and its applications.
- ❖ To attain self-sustainability and overall development through research, consultancy and development activities.
- ❖ To encourage students to become self-motivated, problem solving individuals who can find and understand the knowledge needed to be successful in the profession.
- ❖ To provide intellectual inputs to state and national industries in the form of qualified and trained manpower.

## INTRODUCTION

The Department of Computer Science and Engineering was established in the year 2007 to provide technical skills and expertise in the fast growing field of computer engineering. The department is in a period of exciting growth. It got started offering an intake capacity of 45 students and comprised of single classroom, single faculty room and three shared labs. In short time span, the infrastructure of the department has developed tremendously. The department currently has a magnificent building of its own to house all its requirements in terms of state-of-the-art labs, lecture halls and staff rooms. The department has highly qualified staff with 12 faculty members (with Ph.D. from IITs, NITs and top universities of the Country) and 10 technical and non-teaching staff members. The department currently offers a doctorate programme, Ph.D in Computer Science and Engineering and an undergraduate programme B.Tech in Computer Science and Engineering with a provision to earn Honor's. The academic excellence of the department is reflected by the fact that significant number of students have been placed in multinational companies and also quite a good number of students have gained admission for higher studies in prestigious institutions of national and international repute.

**YEAR OF ESTABLISHMENT:** 2007

## ACADEMIC PROGRAMMES

- ❖ **B.Tech. in Computer Science and Engineering**
- ❖ **Ph.D. in Computer Science and Engineering**



## ABOUT THE COURSE

### **B.Tech. in Computer Science and Engineering**

Computer Science permeates all modern endeavors in academia, government and industry, and is one of the most in-demand areas of engineering where most of the students are vying for. The technically specialized professionals in Computer Science and Engineering are always in high demand in IT industry.

Our curriculum is designed with considerable flexibility due to the numerous Computer Science and Engineering jobs that exist. The bachelor's degree provides every student with a strong fundamental understanding of the field. Students may then opt from exciting electives such as Artificial Intelligence, Big Data Analytics, Internet of Things, Embedded Systems, Block Chain, etc. Students who complete the bachelor's degree will find themselves both highly marketable and well prepared for higher schools of learning.

The department also offers B.Tech. Honors Degree where the student is required to earn additional 20 credits through MOOCs.

**DURATION:** 4 Years (8 Semesters)

### **WHO CAN APPLY?**

Candidates having passed 10+2 from the J&K Board of School Education or from any other recognized board with Physics, Chemistry & Mathematics as compulsory subjects **AND** Having appeared in JEE Main (Paper-I) 2024.

### **Ph.D. in Computer Science and Engineering**

Computer Science is an ever-changing field. Every few months, researchers come up with new efficient algorithms and better technologies. This makes research in a university as important as any other educational activity.

Our Ph.D. programme targets to better the University profile and in parallel serve the society by indulging into extensive research and through publishing research papers in high impact factor SCI, SCIE and SCOPUS indexed Journals.

The specializations for research offered by the department of Computer Science and Engineering include Data Science, Data Analytics, Big Data Mining, Machine Learning, Internet of Things, Machine Learning Ethics, Artificial Intelligence, Graph Analysis/Mining, Scalable Systems. The Ph.D. programme starts with Course Work essentially to prepare the research scholar to carry out research and to develop deeper understanding of the subject area in him/her. The programme's main emphasis is on the Research Work leading to Thesis. This involves delving in depth into a research topic and includes grasping, evaluating & refining ideas, mathematical rigor, problem formulation, problem solving, implementation, performance evaluation and publishing, for details, refer to IUST PhD statutes. The eligibility, intake capacity, procedure for selection, etc. shall be notified separately.

### **PROGRAM EDUCATIONAL OBJECTIVES**

- ❖ To produce globally competent engineers with innovative and problem solving skills for addressing emerging technological challenges
- ❖ To produce competent workforce for industry & research involving innovation, engineering and entrepreneurship
- ❖ To inculcate ethical values among students for overall development of society



## FACILITIES

The Computer Science and Engineering department is having state-of-the-art infrastructure, well maintained and professionally managed. Massive investments have been made in creating hardware and software facilities to provide best-in-class infrastructure and easy access to all students, for grooming them for industry readiness and top placements. The department has established Industry Academic Collaboration labs with organizations like INTEL and e-Yantra IIT Bombay.

The department has five labs – High Performance Programming lab, Computational Lab, Hardware & Networking lab, Project lab, Robotics, Embedded Systems & IoT lab. The labs are equipped with high-end servers, work stations and PCs with latest relevant software installed. The department is also in the process of setting up AICTE- IDEA Lab and an Animation & Graphics Design Lab.

## CAREER PROSPECTS

There is no doubt that Computer Science and Engineering (CSE) is usually the most preferred course. Since everything nowadays is getting digitized and is up on the web, the requirement for a computer scientist will now mellow down sooner or later.

Scores of students of the department after graduating have been able to make their way into companies of repute like IBM, TCS, BYJU's, Accenture, Syntel etc. Students who were aspiring for higher learning have also made to post graduate and doctoral programmes in top institutions.

## ACHIEVEMENTS

- ❖ Students of the department have qualified various national and state level competitive exams like GATE, KAS, MAT, NET, SET etc.
- ❖ Some of the students in the pre-final year only have been offered position in MNCs with salary of 2 Lacs/Month.
- ❖ Scores of graduated students have been able to make their way into various NITs, IITs and other universities of international significance for pursuing higher education.
- ❖ Some students during their undergraduate degree have been able to publish their project work in reputed journals.

## DISTINCTIVE ACHIEVEMENTS

- ❖ A centralized High Performance Computing Lab (HPC Lab) has been established at Department of Computer Science and Engineering, at an expenditure of Rs. 3.5 Crore. The facility is equipped with computing and networking infrastructure to enable HEI's to access the facility seamlessly with high degree of reliability and availability in a secure manner.
- ❖ The department of Computer Science and Engineering has been nominated as a nodal centre for e-Yantra project of department of CSE, IIT Bombay. e-Yantra is MHRD funded project under national mission on Education through ICT to spread embedded systems and robotics education in colleges and Universities across India.
- ❖ The department has signed MOU with Intel under Intel College Excellence Program. Under this program, Intel established Intel Intelligent Systems lab and provided training to the faculty and students on technologies like Internet of Things, Artificial Intelligence and Data Analytics. As part of MOU, the department has started certification programme on Embedded Systems and IoT.
- ❖ 30 students from the department of CSE qualified GATE 2019 out of which two students namely Amir Yaseen and Wahid Gulzar obtained All India Rank of 126 and 152 respectively.

- ❖ Department conducted successfully winter internships for collages of Kashmir region in the domains of Machine Learning, Embedded Systems and IOT and Full Stack Web Development.
- ❖ Department conducted three months training program for unemployed youth of Pulwama in Full Stack Web Development in collaboration IUST KAST and Employment Exchange Pulwama.
- ❖ District Employment and Counselling Centre, Pulwama.

## **FUTURE PLANS**

- ❖ To introduce postgraduate programme M. Tech in Computer Science and Engineering with specialization in AI, Cyber Security and IOT in the department.
- ❖ To establish Cyber Security and Cyber Forensics Lab in the department.
- ❖ To Setup CISCO Network Academy under Kalam Academy of Skill and Training.





# DEPARTMENT OF COMPUTER SCIENCE

## VISION

A total quality learning centered environment of excellence, innovation, leadership and dynamism which builds upon its tradition of providing higher education opportunities, dedicated services and enriching experiences to meet the demands of rapidly changing global economy in a caring, challenging, engaging and enjoyable community atmosphere to ensure the prosperity of mankind at large.

## MISSION

The Department of Computer Science strives for the excellence in creating, applying and imparting the knowledge of computer science through comprehensive educational and research programs to meet the demands of our diverse community. The Department ensures the graduating students to be the leaders in their professional society & higher education and more importantly assets for the community at large by providing them strong foundation in the discipline equipped with the problem solving and decision making skill set. The department provides for and encourages collegial, intellectual and academic growth for both student and teachers.

## INTRODUCTION

The Department of Computer Science was established in year 2006 with the objective of imparting quality technical education in the field of Computer Science. It is one of the pioneering departments of Islamic University of Science and Technology, Kashmir (J&K). The department is designed to accommodate students with different goals and to prepare them for variety of positions in industry, business and the public sector. The department enables the students to enhance their professional skills so that they can contribute to the community. The department encourages critical thinking and quantitative reasoning; it treats Computer Science as a scientific enterprise. The aim of the department is to provide high quality education in the field of Computer Science, thereby developing a new & smart generation of computer professionals with proper transformation of leadership, commitment and moral values.

**YEAR OF ESTABLISHMENT:** 2006

## ACADEMIC PROGRAMMES

- ❖ **Master of Computer Applications (MCA)**
- ❖ **M.Sc. in Information Technology (M.Sc. IT)**
- ❖ **Ph.D. in Computer Science**

## ABOUT THE COURSE

### **Master of Computer Applications (MCA)**

The department started Master of Computer Applications (MCA) programme in the year 2006. This programme is certified by All India Council for Technical Education (AICTE) and has been designed with a semester approach in mind.

**DURATION:** 2 Years (4 Semesters)

**WHO CAN APPLY?**





Having passed BCA **OR** Bachelor's Degree in Computer Science & Engineering **OR** B.Sc./ B.Com./ B.A. with Mathematics as compulsory subject at 10+2 Level/ at Graduation Level with a minimum of 50% marks from a recognized University/ Institution.

### **M.Sc. in Information Technology**

The Department introduced M.Sc. Information Technology (IT) course in the academic year 2012 with the aim to develop core competence in Information Technology and prepare the students to carry out the work of software development and challenges in research. The Master of Science in Information Technology program also provides a broad technical understanding of current and evolving technologies in the IT field with an emphasis on moving technology from the laboratory to the realm of business development through its program core courses.

**DURATION:** 2 Years (4 Semesters)

### **WHO CAN APPLY?**

Degree with a minimum of 45% marks from a recognized University/ Institution in any of the following:

- ❖ Bachelor's Degree in Relevant subject.
- ❖ B.Sc. having Mathematics as one of the subjects at 10+2 level.
- ❖ B.Sc. having Mathematics/ Physics/ Computer Science/ I.T. / or any relevant Computer related recognized subject as one of the subjects in at least 04 semesters/ 02 Years at UG level.
- ❖ B. Tech./BE.

### **Ph.D. Programme**

The department of Computer Science started its Ph.D. programme in the year 2019 and offers Ph.D. Computer Science in the following key research areas:

Artificial Intelligence/ Machine Learning/ Deep Learning/ Big Data Analytics/ Computer Vision/ Multimedia Information Processing/ Pattern Recognition/ Natural Language Processing/ Information Security/ Social Network Analysis

At present, Twenty-one (21) research students are enrolled under four (04) eligible supervisors in their Ph.D. programme in the department. For details, refer to IUST PhD statutes. The eligibility, intake capacity, procedure for selection, etc. shall be notified separately.

### **PROGRAM EDUCATIONAL OBJECTIVES**

- ❖ To impart sound knowledge of the latest technologies used in Science, Technology and Management related to Information Systems and their applications in relevant fields.
- ❖ To cater the needs of industry and scientific organizations in global era in IT and its aligned areas.
- ❖ To develop professionals and leaders of high caliber imbued with values of entrepreneurship, ethics and social responsibility.

### **FACILITIES**

- ❖ The department owns four (04) number of laboratories equipped with latest technology computers/workstations and other tools including projectors, interactive panels, digital smart boards etc.
- ❖ 24 X 7 high speed internet support for students and research scholars.
- ❖ The department is also having rich collection of books available within in the departmental Library.
- ❖ The department possesses reasonable collection of licensed as well as open source software for programming, simulation and research activities.



## CAREER PROSPECTS

After the successful completion of MCA/ M.Sc. IT degree, one can enter any of the following roles:

- ❖ **Software Developer/Programmer/Engineer:** Software Developers are responsible for designing, installing, testing and maintaining the software systems. They provide IT services by analyzing the client needs and designing the system to meet those requirements. It is a very creative field that goes beyond the usual job of coding.
- ❖ **Technical Writer:** Technical writing is a good blend of technology and your creative writing skills. If you have a passion for latest technologies, gadgets and at the same time you love writing, then technical writing is a great career option for you.
- ❖ **Software Consultant:** Consultancy is a very popular career option today. A software consultant is responsible for evaluating a business, its processes and provides software solutions and other feedback to drive the business efficiency.
- ❖ **Software Application Architect:** If you are good at visualization and imaginative skills, the role of Software Architect will be an ideal fit for you. Software Architects are involved in the process of making high-level decisions in design and architecture of IT products and services. The key responsibility area of work of a software application architect is to develop technical manuals and protocols such as tools, platforms and software coding standards.
- ❖ **Web Designer and Developer:** A Web Designer/Developer is responsible for designing and developing websites. He/she should have a very creative blend of mind, color sense, and font style. They should also be well-versed in software to develop and maintain website such as HTML, Dreamweaver, CSS, Photoshop, Illustrator, Flash and so on.
- ❖ **IT Support Services:** Trouble-shooters are the lifeline of any organization. They make sure that the technology (hardware and software) is easily accessible to all those who require them. If any issue comes up, trouble shooters take the charge of resolving it so that the projects are delivered on time. They also have the job of maintaining the resources required by software developers and others.
- ❖ **System Analyst:** The job of a System Analyst is to ideate and design innovative IT Solution modules to drive the respective business and increase efficiency. The system analyst has to extensively study the current business, business processes and models in order to design better IT solution system in terms of software development for clients. They act as a key person between the clients and software developers.

## ACHIEVEMENTS

### Trainings

The Department has an Industrial training and Internship programme for its students to provide them an opportunity to learn about the industry, to establish important contacts and most important to seed the beginnings for a career in their chosen profession. The department has successfully conducted the following trainings in the recent past:

- ❖ Two months industrial training on advanced technologies at KarRox Technologies Ltd., Delhi in 2012.
- ❖ Three months in-house industrial training on advanced technologies in 2013.
- ❖ Six week Industrial Training at HCL CDC South Extension, New Delhi in 2015.
- ❖ Two months industrial Training at Rooman Technologies, Bangalore in 2016.
- ❖ Three months industrial Training at Rooman Technologies, Bangalore in 2017.
- ❖ Six week industrial Training at CDAC-Mohali, Punjab, in 2018.
- ❖ Six week industrial Training at CDAC-Mohali, Punjab, in 2019.



- ❖ Six week industrial Training at CDAC-Mohali, Punjab, in 2020.

### DISTINCTIVE ACHIEVEMENTS

- ❖ The Department of Computer Science organizes number of seminars every year on cutting edge technologies in computer science and disruptive technologies including Machine Learning, Deep Learning, Data Science, Data Analytics and many alike.
- ❖ The Department of Computer Science has established Computer Club in 2018 to conduct weekly awareness programs to update students with recent advancement and developments in Computer Science, Information Technology and other thrust areas. Computer Club facilitates students with an opportunity to grow their soft skills, presentation skills and other technical cum competitive skills.
- ❖ The Department continuously invites professors of international repute from various institutes of excellence across the globe to deliver their talks in the Department. Professor Mehul S Raval, Associate Dean - Experiential Learning and Professor of Ahmedabad University, Prof. Gurpreet Singh Lehal Director, Research Centre for Punjabi Language, Literature & Culture Punjabi University, Patiala and Dr. Mohammad Javed of Indian Institute of Information Technology - Allahabad delivered their talks in the months of Feb and March, 2023.
- ❖ The department continues its culture of outreach activities including community outreach, alumni, industrial visits etc. and in the year 2023. Both national / international alumni participated in the alumni meetings. Relevant Local Industrial Visits have been organized in the year 2023. A number of outreach events were organized for different colleges and schools in the year 2023. The alumni of the department are working overseas in countries like USA, Germany, Ireland, KSA, Singapore, Korea etc. with reputed IT companies. Many other alumni of the department are working with academic and research institutions having national and international recognition within and outside the country.

### FUTURE PLANS

**Academic:** In the coming session, the department envisions to offer Four Year Undergraduate Programme (FYUGP) in Computer Science and Masters programme in Disruptive Technologies under NEP 2020.

**Collaboration:** The department also strives to achieve academic and research collaborations with other institutions of repute in the related fields.





# DEPARTMENT OF ELECTRICAL ENGINEERING

## VISION

The Department of Electrical Engineering, Islamic University of Science and Technology aspires to be a destination for high quality scientific and technological education in electrical sciences and technology, a research and innovation hub with special emphasis on sustainable development in the service of humanity, and a centre where education and research are in full compliance with international standards of quality assurance.

## MISSION

- ❖ **M1: Quality education and research:** Engage in high quality education and research with an eye on international standards.
- ❖ **M2: Skills and competence for serving industrial needs:** Produce skilled and competent manpower trained in electrical engineering and technology for current and emerging needs of the industry.
- ❖ **M3: Holistic development:** Provide an interdisciplinary learning environment that is student-centric, value-based and promotes holistic student development.
- ❖ **M4: Societal relevance and sustainable development:** Drive research and innovation in electrical sciences and technology to serve societal needs and with emphasis on sustainable development.

## INTRODUCTION

### Establishment and current offerings:

- ❖ Established in 2012.
- ❖ Currently offering one undergraduate program (B. Tech) degree in electrical engineering.
- ❖ Ph.D. program started in 2018.
- ❖ Minor Specialization/Honors in Energy Systems Engineering and Electric Vehicle Technology starting in 2024.
- ❖ M.Tech 1 Year/ 2 Year in Energy Systems Engineering and Electric Vehicle Technology starting in 2024.

### Facilities and faculty:

- ❖ State-of-the-art infrastructural facilities are in place for students' education and training.
- ❖ Well-equipped departmental library.
- ❖ Well qualified and dedicated faculty trained at reputed institutions.
- ❖ Faculty Strength = 11.

### Curriculum highlights:

- ❖ Students are provided hands-on training and exposure in all fundamental electrical technologies.
- ❖ To incorporate the new trends in the technology and industry, the department is starting new programs in electric vehicles and energy systems.



- ❖ These technologies are a part of a standard graduate level electrical engineering course, like electromechanical energy conversion, power systems, control systems, computation and simulation, etc.
- ❖ It is also ensured that students gain sufficient general knowledge in related disciplines of electrical and computer sciences.

**Thrust research areas:**

- ❖ Electric Vehicle Technology.
- ❖ Renewable Energy Systems.
- ❖ Power system operation and control.
- ❖ Computational methods in Systems and Control.
- ❖ Control and Switching of Power Electronic Converters.

**YEAR OF ESTABLISHMENT:** 2012

**ACADEMIC PROGRAMMES**

- ❖ **B.Tech. in Electrical Engineering**
- ❖ **Minor Specialization/Honors in Energy Systems Engineering and Electric Vehicle Technology**
- ❖ **M.Tech 1 Year/ 2 Year in Energy Systems Engineering and Electric Vehicle Technology.**
- ❖ **Ph.D. in Electrical Engineering**

**ABOUT THE COURSE****B.Tech. in Electrical Engineering**

The curriculum of the B.Tech. (Electrical Engineering) program aims at imparting knowledge and creating skills required for the successful career in the field of electrical engineering and technology. It is designed to be at par with the curriculum at reputed institutes at the national level and complies with directives related to AICTE model curriculum & UGC choice-based credit system (CBCS). The course structure for this program is divided into 8 (eight) semesters with five to six theory courses and 3 to 4 practical courses. The courses primarily aim to provide basic training in analysis and design of electrical energy systems, including, broadly, systems employed for generation, transmission, control, and conversion of electrical energy.

The criteria that Minor Degree or Honors will cumulatively require additional 18 to 20 credits in the specified area in addition to the credits essential for obtaining the undergraduate degree in major discipline (i.e. 160 credits) must be satisfied.

The Department of Electrical Engineering proposes to give two Minor Specializations/Honors degrees in the B.Tech. (Electrical Engineering) Program in the following areas:

- ❖ Energy Systems Engineering (ESE).
- ❖ Electric Vehicle Technology (EVT).

Both programs have been designed for 18 credits, including both core and elective courses.

Two new M. Tech. Programs of two years duration are proposed in Energy Systems Engineering (ESE) and Electric Vehicle Technology (EVT). It is proposed that in line with NEP-2020 recommendations and Guidelines for multiple entry and multiple exit circulated by UGC in July 2021, students who have earned an Honors/Minor Specialisation in the same or relevant areas during their B.Tech. program can earn the same degrees in one year.

**DURATION:** 4 years (8 Semesters).

### WHO CAN APPLY?

Candidates having passed 10+2 from the J&K Board of School Education or from any other recognized board with Physics, Chemistry & Mathematics as compulsory subjects **AND** Having appeared in JEE Main (Paper-I) 2024.

### Ph.D. Programme

The Department offers Ph.D. program for eligible students in various thrust areas of Electrical Engineering which include: Control and Automation, Power and Energy systems, Power System Stability and Control, Power Electronics, Electrical Drives, Renewable Energy and Computational Electromagnetics, for details, refer to IUST PhD statutes. The eligibility, intake capacity, procedure for selection, etc. shall be notified separately.

### PROGRAMME EDUCATIONAL OBJECTIVES

The Department of Electrical Engineering intends to produce graduates who:

- ❖ Comprehend well the underlying principles behind modern electrical, electronic and computational technology.
- ❖ Have the ability to pursue a diverse range of careers as engineers, consultants, scientists, academicians and entrepreneurs.
- ❖ Creatively apply their understanding of scientific principles to the solution of problems within their work.
- ❖ Practice and inspire high ethical and technical standards.
- ❖ Are sensitive to the environmental, socio-cultural and economic context in which they work.
- ❖ Are able to communicate their ideas and positions clearly and concisely and are ready to engage in lifelong learning.

### FACILITIES

The Department has well equipped facilities for giving students hands-on training and exposure in all fundamental technologies that are a part of a standard graduate level Electrical Engineering course, like Electromechanical energy conversion, Power systems, Control Systems, Computation and Simulation etc. All labs are Wi-Fi enabled and have a 24x7 Uninterrupted Power Supply. The department also has a well-equipped departmental library with a good collection of basic and advanced books in Electrical Engineering and allied subjects.

In the last few years, considerable augmentation of laboratory equipment and software was done under the Technical Education Quality Improvement Program Phase three (TEQIP-III). This includes among other things, a state-of-the-art dissectible machine system manufactured by LD DIDACTIC GmbH, Germany, Solar Photovoltaic training and research system manufactured by Ecosense Sustainable





Solutions Pvt. Ltd. and Power System Computer Aided Design (PSCAD) software which is the industry standard for power system electromagnetic transient simulations.

Recently, the department has upgraded its computational facilities by adding 17 workstations with state-of-the-art configuration. Further, two proprietary software's, ANSYS and HOMER, which are immensely popular simulation tools for computational electromagnetics and renewable energy respectively have been procured for the labs.

### **CAREER PROSPECTS**

After completion of degree, the students are eligible for applying to various positions for Electrical engineers in the state government, in Public Sector Organizations like BHEL, NTPC, NHPC etc., or in the private sector. Students are also encouraged to seek admission in postgraduate courses in reputed institutes/universities by appearing in various competitive exams like GATE, GRE etc.

### **ACHIEVEMENTS**

Workshops organised by the department:

- ❖ Six-days workshop on "FDP on Grid Decarbonization and Distributed Energy Resources to Mitigate Climate Change" from 18-23, December, 2023 sponsored by AICTE.
- ❖ One-day workshop on "Awareness Generation Programme on Solar Energy Intervention for Sustainable Lifestyle" in collaboration with TERI on 28 December, 2023.
- ❖ One-day workshop on "Energy Conservation & Renewable Energy" was organised on 20th February 2023 in coordination with the office of the Dean of Students.
- ❖ Invited lecture on "Smart Metering Implementation in J&K" held on 21st November 2022.
- ❖ Workshop in collaboration with 3CP (Centre for Career Counselling & Placements) on "How to Build Your Professional Profile" organised on 16th November 2022.
- ❖ One day webinar on "Power Electronics Applications in Electric Vehicles" organised by Dr. Arghya Chakravarty & Mr. Javeed Bashir on November 26, 2021.
- ❖ One day webinar on "Final Year Students Design Projects: Choices and Implementation" organised by Dr. Arghya Chakravarty and Mr. Javeed Bashir on November 11, 2021.
- ❖ One day webinar on "Air Traffic Management over Indian Airspace" organised by Dr. Arghya Chakravarty & Mr. Javeed Bashir on October 30, 2021.
- ❖ A two-day workshop was organised by Dr. Mubashar Yaqoob Zargar and Dr. Hadhiq Khan on "Computational Methods in electrical Engineering" from 31 March 2021- 1st April 2021.

## DISTINCTIVE ACHIEVEMENTS

- ❖ The Department is now around 11 years old and till date seven batches of electrical engineering graduates have passed out. Many students have qualified state/national/international level examinations (GATE/GMAT/ CAT/GRE/TOEFL/State government examinations). Many are pursuing M.Tech/M.S/Ph.D in reputed institutes within and outside India. A number of students have been successfully placed in various national and multinational companies.
- ❖ The faculty members have a strong research profile. The Department has a total number of 122 publications in Journals and Conferences. In the past few years, many papers were published by faculty members in reputed SCI indexed journals published by IEEE, Elsevier, IET, Wiley and Springer.
- ❖ Faculty members have also contributed towards book chapters in books published by renowned publishers.

## FUTURE PLANS

- ❖ Starting Masters Programme in emerging technologies within the domain of electrical sciences and engineering.
- ❖ Offering minor specializations & Honours degree to B.Tech. students in emerging technologies in the near future.
- ❖ NBA Accreditation for B-Tech Program.
- ❖ Consultancy Services in Electrical Engineering.

# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

## VISION

Strive to be recognized as a Center of Excellence, in the field of Electronics and Communication Engineering, by producing top-of-the-line graduates and researchers, with high ethical values, to circumvent professional and societal challenges.

## MISSION

- ❖ M1. To impart quality education and training by adopting demand driven and industry relevant curriculum in line with statutory and regulatory bodies.
- ❖ M2. To generate new knowledge in cutting edge research areas by providing state-of-the-art facilities.
- ❖ M3. To work out and implement equity action plan for the betterment of academically weak and under privileged students.
- ❖ M4. To have a sustained interaction with the alumni, students, parents, faculty, industry and other stake holders to stay in tune with market demands.

## PROGRAM EDUCATIONAL OBJECTIVES

- ❖ PEO1. Examine, analyze, plan and apply the acquired knowledge in basic science and mathematical sciences in solving Electronics and Communication Engineering problems with technical economic, environmental and social contexts.
- ❖ PEO2. Design, fabricate and test analog and digital electronic systems for given specifications.
- ❖ PEO3. To develop a strong foundation for comprehending the facets of cutting-edge technologies, tools and materials in the field of Electronics and Communication Engineering.
- ❖ PEO4. Work in a team to inculcate a culture of leadership, managerial and entrepreneurial skills.

## INTRODUCTION

The Department of Electronics and Communication Engineering is one of the major departments of IUST since its inception in 2007. In course of time, the Department has made remarkable progress in terms of state-of-the-art infrastructure, teaching-learning process and has attracted multiple sponsored R&D projects. The curriculum of B.Tech (ECE) program is built on strong theoretical and practical problem-solving fundamentals. It aims at imparting knowledge and creating skills required for a successful career. With the 17th batch of students admitted to B.Tech (ECE) in 2023, today we are better positioned to address the challenges of an evolving technology landscape in a transformative way.

**YEAR OF ESTABLISHMENT:** 2007

## ACADEMIC PROGRAMMES

- ❖ **B. Tech. in Electronics and Communication Engineering**
- ❖ **Ph.D. in Electronics and Communication Engineering**





## ABOUT THE COURSE

### B. Tech. in Electronics and Communication Engineering

The courses provided by the department are tailored to the needs of technical manpower in the IECT sector covering especially Communications, Embedded systems, VLSI, Power Electronics, Instrumentation & Control etc.

The focus of the program is on Electronics, Communication Engineering, Digital Communication (Data Communication), Digital Electronics, Wireless Communication, Microwave Communication, Photovoltaic System Design, Embedded systems, Microprocessors, VLSI design etc.

To achieve our objectives, the curriculum gives adequate emphasis on subjects like Analog Communication, Digital Signal Processing, Optical Fiber Communication, Antenna and Wave propagation, Power Machines, Basic Electronics, Basic Electrical Engineering, Power Electronics, Random Processes and Noise, Control Engineering etc.

Besides, there are certain elective courses which students choose as per their choice under Choice Based Credit System (CBCS), enabling them to keep up-to-date with industry requirement and work in cutting edge technology, within and outside the country. Some of these courses include Image Processing, Radar Engineering, Television and Video Engineering, Medical Electronics, Consumer Electronics, System Design etc.

**DURATION:** 4 years (8 Semesters).

### WHO CAN APPLY?

Candidates having passed 10+2 from the J&K Board of School Education or from any other recognized board with Physics, Chemistry & Mathematics as compulsory subjects **AND** Having appeared in JEE Main (Paper-I) 2024.

### Ph.D. Programme

The Department offers Ph.D program for eligible and motivated students in various thrust areas of E&C Engineering which include (but not limited to): Network Security, Artificial Intelligence, Digital Image Processing, Machine Learning, Smart Antenna Design, Communications, Power Electronics, Signal Processing, Spiking Neural Networks, VLSI Technology, Computer Vision, Analog Circuit Design. for details, refer to IUST PhD statutes. The eligibility, intake capacity, procedure for selection, etc. shall be notified separately.

### WHO CAN APPLY?

1. Master's degree in the concerned/allied subject from any recognized university with at least 55% marks in aggregate or its equivalent grade "B" in the UGC 7- point scale (or an equivalent grade in a point scale wherever grading system is followed). **[OR]**
2. An equivalent degree from a foreign educational institute accredited by an assessment and accreditation agency which is approved, recognized or authorized by an authority, established or incorporated under a law in its home country or any other statutory authority in that country for the purpose of assessing, accrediting or assuring quality and standards of educational institutions.

**DURATION:** 3 Years and maximum 6 years.



## FACILITIES

Analog Electronics Lab/ Digital Electronics Lab/ Microprocessor/Microcontroller Lab/ Microwave Lab/ Communication Lab/ Data Communication Lab/Photovoltaic System Design Lab/VLSI Lab/ Computation/ Simulation Lab.

## CAREER PROSPECTS

Electronics and Communication Engineering (ECE) has been recognized as one of the most popular engineering branches. With the likely emergence of India as the hub in the area of Electronic System Design and Manufacturing (ESDM) as manifested in the announcement of New Policy on Electronics (NPE-2019), the employability and career opportunities for an Electronics and Communication Engineer would show a multifold increase. The opportunities shall be offered in various home grown sectors related directly or indirectly to the IECT. The target envisaged under NPE-2019 is to generate a turnover of 400 billion dollars and provide employment for 10 million trained people. Evidently, students pursuing Electronics and Communication Engineering have a lot of scope in start-ups and established industries. Graduates in Electronics Engineering also have lots of opportunities in Government and private companies in the areas of design, manufacture, instrumentation and control, installation, operation, and maintenance of electronics and control equipment.

## ACTIVITIES

- ❖ To prepare the Department for NBA accreditation of B-Tech Program and reaccreditation by the NAAC as per revised framework;
- ❖ Identification of appropriate research problems in the areas of Artificial Intelligence, Internet of things, Information and Network Security, Photovoltaic System Design, Antenna & Microwave systems, VLSI systems, Signal Processing, Analog Circuit Design, Spiking Neural Networks, Computer Vision and Embedded systems for assigning it to the research scholars.
- ❖ To obtain the student feedback online in a more transparent and convincing way.

## ACHIEVEMENTS

- ❖ Some of the faculties of the Department are serving as resource persons and advisors at state and central level.
- ❖ Research activities have been given an impetus by the Department over the last few years.
- ❖ Successful implementation of project TEQIP-III.
- ❖ Strong linkages have been built with organizations like CDAC, NITTTR, ALTTC, and NIELIT for implementing internship programs and practical trainings.

## DISTINCTIVE ACHIEVEMENTS

### Ph. D Program

Research scholars are admitted since 2018 to work in the areas of Artificial Intelligence, Information Security, Solar Photovoltaics, Internet of Things, Antenna and Microwave Communication and Optical Fiber Communications, Signal Processing, Spiking Neural Networks, VLSI Technology, Computer Vision, Analog Circuit Design.

### Faculty Contributions (2018-23)

Research Projects:

Completed: **08**, Ongoing: **06**, Submitted for approval: **23**



Publications in National/ International journals: **76**

Conference Papers: **52**

Patents Granted: **01**

No. of scholars awarded Ph.D: **06**

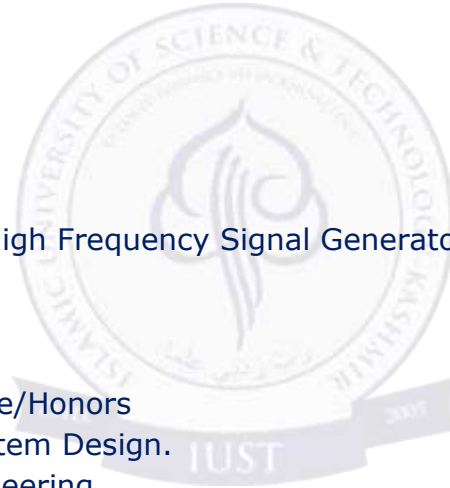
No. of scholars pursuing Ph.D: **12**

## **Infrastructure Development**

High end equipment like PCB Prototype Machine, High Frequency Signal Generator, Softwares like SystemVue Simulation, Optisystem, CST etc.

## **FUTURE PLANS**

- ❖ NBA accreditation for B-Tech program.
- ❖ Launch of B.Tech program with Minor Degree/Honors
- ❖ Launch of M-Tech program in Electronic System Design.
- ❖ Launch of BVOC courses in Electronics Engineering.
- ❖ Consultancy services in IECT sectors.
- ❖ Establishment of high end computing and testing laboratories.
- ❖ To initiate on-campus placements for outgoing students.







# DEPARTMENT OF FOOD TECHNOLOGY

## VISION

To serve as a center providing quality education and mentoring for individuals looking forth to build careers in food technology.

## MISSION

- ❖ To impart complete education employing advanced technology and infrastructure so as to shape the students into qualified professionals.
- ❖ To develop the personality of students, instilling in them a sense of belonging and responsibility towards society.
- ❖ To work for the production of trained manpower well equipped to serve both the food industry and society as a whole.
- ❖ To establish integration with industry and address issues of practical importance.
- ❖ To cater to the emerging needs and concerns of consumers, by providing thrust in the areas of food engineering, technology and research innovations with continuous upgradation.

## INTRODUCTION

The area of Food Science and Technology assumes priority in view of its role in the Socio-economic development of many countries of the world. Being one of the components in food chain, it plays a crucial role in providing population with high quality nourishment with least possible cost.

In Food Technology emphasis is laid down on R&D activities in post-harvest loss reduction; improvement in food quality, safety and nutrition; diversification of raw materials for processing; improved packaging materials; application of food microwave for processing; biotechnological processing; food irradiation; improvements in food evaluation techniques and development of variety of fabricated foods with built in convenience. With an ever-expanding global population and their emerging needs and concerns, food technology professionals are challenged with developing innovative food applications, and the understanding of the interdependence among nutrition, food, and health. Consequently, an increasing demand for food technologists is felt in various food industries/ establishments.

The Department of Food Technology was established in the year 2006 and is equipped with modern infrastructure, state of art laboratories, and well qualified faculty members. The Department of Food Technology aims to provide students with basic and advanced knowledge of food technology to acquaint them with the practical applications of the subject.

Faculty of the Department is involved in high quality research and publications in reputed journals. Many projects have been initiated and carried out in the department, which are funded by Central government agencies like DBT, UGC, MOFPI and DST. As part of imparting practical knowledge to the students, industry visits that form a curricular component, are organized that widen their horizon of thinking and upgrade their skills. The Department not only strives for academic excellence, but has also developed a strong liaison with the premier



institutions like Punjab Agricultural University, Ludhiana, SLIET Longowal, NDRI Karnal, and ICT Mumbai to share research experiences and facilities to aid in developing trained human resource for industries.

The Department of Food Technology has a well-established NABL accredited Food Quality Control laboratory par excellence, instrumental in carrying out quality analysis of various food products.

**YEAR OF ESTABLISHMENT:** 2006

#### **ACADEMIC PROGRAMMES**

- ❖ **B. Tech in Food Technology**
- ❖ **M. Tech Food Technology**
- ❖ **Ph.D. in Food Technology**

#### **ABOUT THE COURSE**

##### **B. Tech in Food Technology**

The undergraduate programme is spread over four years comprised of eight semesters. The course is designed to impart discipline specific knowledge through a well-designed curriculum. During the first two years, thrust is laid on the areas of food processing, food microbiology, food preservation, food chemistry and nutrition. This provides the basic understanding of the subject. In the latter stage, emphasis is laid on the technologies involved in food industries like dairy, meat, fruit, and bakery. The last semester is dedicated exclusively to industrial training for three months for practical exposure of students in multinational food industries in and outside the UT.

**DURATION:** 04 years (8 semesters)

#### **WHO CAN APPLY?**

Candidates seeking admission for this programme should have passed higher secondary Part-II (10+2) from any institute recognized by Jammu and Kashmir Board of School Education or equivalent with Physics, Chemistry and Biology / Mathematics as the subjects at 10+2 level.

##### **M.Tech in Food Technology**

The program consists of four semesters with last semester entirely dedicated for research. The course curriculum focuses on advanced food engineering, food processing, nutraceuticals and health foods and simulation of different food processing operations. Additionally, product design and development, food supply chain management, project planning and management shall also be focused upon to acquaint with the managerial aspects of industrial functioning. The students admitted in this course are prepared eventually for Doctoral programmes.

**DURATION:** 02 years (4 semesters)

#### **WHO CAN APPLY?**



B. Tech. Food Technology with a minimum of 55% marks from a recognized University/ Institution.

### **Ph.D. Programme**

The Department offers Ph.D. programmes in Food Technology, for details, refer to IUST PhD statutes. The eligibility, intake capacity, procedure for selection, etc. shall be notified separately.

### **PROGRAMME EDUCATIONAL OBJECTIVES**

- ❖ To train professionals imbibing both theoretical and practical know how of food processing and related areas to serve academia, industry as well as the society.
- ❖ To disseminate the knowledge of current issues socially and globally, and enable the students to address them employing latest techniques in food processing.
- ❖ To provide learning opportunities in multidisciplinary fields involving chemistry, biochemistry, engineering, microbiology, biochemical and other aspects of food along with its preservation, processing, quality and packaging.
- ❖ To provide a thorough industrial exposure to students so as to enable them to be capable enough to serve in national and multinational organizations.

### **FACILITIES**

The Department houses well established laboratories such as that of Quality Control Lab, Food Microbiology Lab, Analytical Lab, Food Engineering Lab, and mini processing units of bakery, fruit and vegetable funded by DST and MOFPI. Department possesses highly sophisticated equipments including Rheometer, Texture Analyzer, UV-Spectrophotometer, moisture analyzer, Hunter color lab, HPLC, GC, Two Stage Evaporator, Filter Press, Plate Type Heat Exchanger, Working model of refrigerator, steam distillation equipment, Fluidized bed drier, Hydraulic bench, Ball mill, screw conveyor, Ribbon mixer, Rotap sieve shaker, Reynolds apparatus, Flow meter apparatus having rotameter, veturimeter, and orifice meter, centrifugal test –rig, Multiple Effect of Evaporator are operational for students practical work.

A multiline food processing plant comprising of facilities for fruits and vegetable processing, baking is available for students training to prepare various food products.

### **CAREER PROSPECTS**

Food industry, one of the growing industries in the world, presents a continuous demand of quality products for ever-discerning quality conscious consumers, and hence requires skilled personnel to meet such needs. Modern food production involves the application of emerging technologies and the execution of a multi-disciplinary approach. Food Technology is an amalgam of Science and Technology incorporating aspects of food safety, biotechnology, microbiology, functional foods, production Technology and management into traditional food production. Together with this and the complexity involved in the production of food products, the need for qualified Technocrats in Food technology arises.





The students on the completion of this programme are able to combine traditional as well as new technologies to meet highest standards of food production and food safety. Moreover, being well equipped with subject knowledge, the professionals can serve as better resource personnel in the global context as well.

### **ACHIEVEMENTS**

The Department has got infrastructural facilities from MOFPI, DBT, and UGC, as well as National Horticulture Mission on the subject of women empowerment through imparting training in food processing. The Faculty of the Department has participated in many National and International Conferences at leading institutions of the country. The Faculty members of the Department hold distinguished features from being listed as visiting scientists at foreign institutions to being recipients of research grants from UGC, and CV Raman fellowship for Pursuing advanced research at United States of America. Moreover, one of the faculty members has recently been listed on the expert panel of WHO/FAO for microbiological risk assessment.

The Department has a fully-functional training and placement cell having established strong liaison with the premiere Industries and organizations in Food Processing Sector such as Danone Food and Beverages, Schreiber Dynamix Dairies Pvt. Ltd., Mother Dairy, Kraft Foods, and Nestle India pvt. Ltd, Mrs. Bector (Cremica Foods, Ludhiana), Punjab milk Federation (Verka Punjab), and Danone Nutricia. Internship programmes for B.Tech students are carried in these multinational companies regularly for 8th semester students.

The pass out students brought laurels to the department in that they have associated with big players in the International as well as National market. Some of which include, Almarai Integrated Dairy pvt. Ltd, Riyadh, Dhofar Beverages and Food Stuff Oman, IFFCO Dubai, Food Quality Assurance Department, Dubai, United Food Company, Riyadh, Ajwa Edible Oil Company, Damam, Nestle India Pvt. Ltd, Coca- Cola India, organic India Bonn Food, and Pepsico India.

### **DISTINCTIVE ACHIEVEMENTS**

The Department is first to start M.Tech Food Technology Course in the Union Territory of Jammu and Kashmir. Majority of the candidates selected as Food safety officers in 2017 are the alumni of the Department.

The department has bagged five MHRD funded projects in 2019, worth 67 lakhs under TEQIP-III sponsored scheme of Collaborative Research with various NITs and IITs of the country. Moreover, the department also bagged one seed project grant under TEQIP-III.

The Department holds the distinction of having established a state-of-art NABL accredited Food Testing Lab that is one of its kind in the Union Territory and is instrumental for carrying out quality and safety testing of food products of the valley.

### **FUTURE PLANS**

The department is committed to carry high end research work related to food technology. Formulation of novel functional food products would be developed, and their pilot plant scale production and marketing would be carried out. Skill development courses/ trainings will be carried out to promote entrepreneurship among un-employed youth.



# DEPARTMENT OF MECHANICAL ENGINEERING

## VISION

To become an internationally recognized center of excellence in academics, research, and innovation in Mechanical Engineering and to produce quality human resource who can contribute to the technological and socioeconomic development of the nation

## MISSION

- ❖ To impart quality education to students which can be a transformative experience for their thought process.
- ❖ To build an attitude of problem identification and solving among the students leading to an innovative mind set.
- ❖ To undertake quality research leading to knowledge generation and asset building for the institution and society.
- ❖ To provide technological services to industry for the benefit of society.

## INTRODUCTION

Mechanical engineering plays a crucial role in shaping the world we live in today. From the everyday items we use to the complex machinery that drives industries, mechanical engineering is at the heart of modern civilization. It encompasses various fields such as mechanical engineering design, thermal engineering, manufacturing sciences, material sciences, industrial engineering, mechatronics, robotics, automation, and control engineering. It is also involved in solving energy-related issues, such as energy storage and utilization.

The Department of Mechanical Engineering at the Islamic University of Science and Technology (IUST) is a premier engineering department established in 2016, located in Kashmir, India. The department is known for its commitment to excellence in education and research in the field of mechanical engineering. It offers both a four-year Bachelor of Technology (B.Tech) program and a PhD program, providing a comprehensive and holistic approach to mechanical engineering education.

The B.Tech program in Mechanical Engineering at IUST is designed to provide students with a strong foundation in mechanical engineering principles, practical skills, and specialization options. The curriculum covers core subjects, offers hands-on learning opportunities, and focuses on industry-oriented projects, internships, and research, preparing students for a successful career in various areas of mechanical engineering.

Starting from the academic year 2023, the Department of Mechanical Engineering has introduced a specialized Minor/Honors Degree Program, allowing students to delve deeper into specific areas of interest. This program is crafted to enhance the academic experience, providing students with the opportunity to earn a minor/honors degree alongside their primary Bachelor of Technology (B.Tech) degree. Under this innovative initiative, students can opt for specializations in two dynamic fields: a) Robotics and Automation, and b) Computational Mechanics. The program encourages interdisciplinary learning, aligning with the department's vision of producing well-rounded and industry-ready graduates.



The PhD program at IUST aims to foster research excellence in mechanical engineering. It offers opportunities for interdisciplinary research, specialized training, and research funding, enabling students to conduct cutting-edge research under the guidance of experienced faculty members. The program emphasizes publication and dissemination of research findings, and prepares graduates for leadership roles in academia, research, and industry.

With a team of highly qualified faculty members, state-of-the-art laboratories, and modern infrastructure, the Department of Mechanical Engineering at IUST provides a conducive learning environment for students to excel in mechanical engineering education and research. It aims to nurture the next generation of mechanical engineers who are capable of contributing to the advancement of society through their technical expertise, innovation, and research capabilities.

**YEAR OF ESTABLISHMENT:** 2016

## ACADEMIC PROGRAMMES

- ❖ **B. Tech. in Mechanical Engineering**
- ❖ **Minors/Honors Degree in Robotics and Automation, and Computational Mechanics**
- ❖ **Ph.D. in Mechanical Engineering**

## ABOUT THE COURSE

### **B. Tech. in Mechanical Engineering**

The Bachelor of Technology (B.Tech) program in Mechanical Engineering at the Islamic University of Science and Technology (IUST) is a comprehensive four-year undergraduate program that aims to equip students with a strong foundation in mechanical engineering principles and practical skills. Here are some key points about the B.Tech in Mechanical Engineering program:

- **Hands-on Learning:** The program emphasizes hands-on learning through laboratory work, workshops, and practical sessions. Students get ample opportunities to work with modern engineering tools and equipment, and gain practical skills in areas such as computer-aided design (CAD), computer-aided manufacturing (CAM), and simulations.
- **Industry-Oriented Approach:** The program focuses on bridging the gap between academia and industry by incorporating industry-oriented projects, internships, and guest lectures by industry experts. Students gain exposure to real-world engineering challenges and develop problem-solving skills that are relevant to the industry.
- **Professional Development:** The program offers opportunities for professional development through seminars, workshops, and technical events. Students can enhance their communication skills, leadership abilities, and teamwork skills, which are essential for a successful career in mechanical engineering.





- **Career Prospects:** Graduates of the B.Tech program in Mechanical Engineering from IUST are well-prepared to pursue careers in various industries, including automotive, aerospace, energy, manufacturing, and consulting. They can work as mechanical engineers, design engineers, manufacturing engineers, project managers, and research associates, among other roles.

**DURATION:** 4 years (8 Semesters)

### WHO CAN APPLY?

Candidates having passed 10+2 from the J&K Board of School Education or from any other recognized board with Physics, Chemistry & Mathematics as compulsory subjects **AND** Having appeared in JEE Main (Paper-I) 2024.

### Minor/ Honors Degree

The Department of Mechanical Engineering at the Islamic University of Science and Technology takes pride in introducing a novel dimension to its academic offerings. Our progressive Minor/Honors Degree Program offers students the opportunity to expand their academic horizons with additional specialization options.

Open to B. Tech. students, this program enriches the standard curriculum by necessitating an extra 18 credits. The department presents the Minor/Honors Degree Program in two distinctive specializations:

#### a. Robotics and Automation:

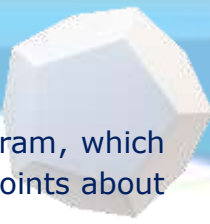
Delving into the interdisciplinary study of robot design, construction, and operation, this specialization cultivates skills in automation, control systems, and artificial intelligence. Students gain a comprehensive understanding of cutting-edge technologies driving advancements in robotics.

#### b. Computational Mechanics:

Focused on advanced simulations, numerical methods, and modeling techniques, this specialization equips students with the capability to analyze intricate mechanical systems using robust computational tools. It provides a profound insight into emerging technologies in Computational Mechanics.

These specializations provide a profound understanding of emerging technologies, preparing students for impactful contributions in the rapidly evolving fields of robotics and computational mechanics.

### Ph.D. Programme



The Department of Mechanical Engineering at the Islamic University of Science and Technology (IUST) also offers a PhD program, which provides an advanced level of education and research opportunities in the field of mechanical engineering. Here are a few key points about the PhD program:

- **Research Excellence:** The PhD program at IUST focuses on fostering research excellence in mechanical engineering. Students are encouraged to pursue independent research projects under the guidance of experienced faculty members, enabling them to contribute to the advancement of knowledge in the field.
- **Interdisciplinary Research:** The PhD program encourages interdisciplinary research, allowing students to collaborate with faculty members from other engineering disciplines and fields of science. This promotes cross-disciplinary innovation and expands the scope of research opportunities for students.
- **Specialization Options:** The PhD program offers various specialization options within the field of mechanical engineering, such as thermal engineering, materials science and engineering, robotics and automation, and design and manufacturing. Students can choose a research area that aligns with their interests and career goals.
- **Publication and Dissemination:** PhD students are encouraged to publish their research findings in reputable journals and present their work at national and international conferences. This helps in disseminating research findings and building a strong research profile.
- **Career Opportunities:** Graduates of the PhD program from IUST are well-equipped to pursue careers in academia, research and development, engineering consulting, and other industries. The program prepares students for leadership roles in academia, industry, and research organizations.

## PROGRAMME EDUCATIONAL OBJECTIVES

- ❖ To produce graduates with a strong background in basic mechanical engineering and to develop mathematical and analytical skills required by a mechanical engineer.
- ❖ To produce graduates who have the ability to demonstrate technical and professional competence in mechanical engineering and develop solutions to the problems faced by society.
- ❖ To train students in designing various mechanical engineering systems, considering their functionality, aesthetics, safety, cost effectiveness, reliability and sustainability.
- ❖ To ensure that the students develop strong work ethics, organizational skills, team work and exhibit good competence in their work culture.



## FACILITIES

The Department of Mechanical Engineering at the Islamic University of Science and Technology offers state-of-the-art facilities to enhance the learning experience for our students. Our well-equipped laboratories include:

- **Mechanics of Solids Lab:** Explore the fundamental principles governing solid mechanics in a hands-on environment.
- **Manufacturing Processes Lab:** Gain practical insights into various manufacturing techniques and processes.
- **Mechanisms and Vibrations Lab:** Delve into the study of mechanical systems, mechanisms, and vibrations through experimental setups.
- **Fluid Mechanics and Machines Lab:** Experience fluid dynamics phenomena and study the performance of various machines.
- **Energy Systems Lab:** Explore and analyze energy-related systems, contributing to a comprehensive understanding of energy dynamics.
- **Heat and Mass Transfer Lab:** Investigate the principles and applications of heat and mass transfer through practical experiments.
- **Computational Lab:** Utilize modern computational tools and software to solve engineering problems and simulate real-world scenarios.
- **Robotics and Intelligent Machines Lab:** Engage in hands-on activities to understand the principles of robotics and intelligent machines.
- **HVAC Lab:** Explore heating, ventilation, and air conditioning systems, gaining practical insights into this critical field.
- **Industrial Engineering Lab:** Learn and apply industrial engineering principles to optimize processes and enhance efficiency.

Our commitment to providing a conducive learning environment is reflected in these well-equipped facilities, allowing students to bridge theoretical knowledge with practical applications. These laboratories play a pivotal role in nurturing a hands-on approach to learning, preparing students for challenges in the field of mechanical engineering.

## CAREER PROSPECTS

After completing a B.Tech in Mechanical Engineering, students have a wide range of career options to choose from. They can opt for higher studies by pursuing M.Tech programs in various areas of Mechanical Engineering after passing the GATE (Graduate Aptitude Test in Engineering) examinations conducted at the national level. Many public sector organizations such as NTPC, NHPC, GAIL, etc. also consider GATE scores for recruitment, opening up further opportunities for higher studies and career advancement.

In addition to pursuing higher studies, graduates from the B.Tech program in Mechanical Engineering can also explore career opportunities in various industries. There are numerous core mechanical engineering companies where graduates can start their careers, including NTPC, NHPC, Ford Group, Mahindra & Mahindra, Tata Motors, Bosch LTD, Caterpillar, HPCL, Hyundai, Larsen and Toubro, Coal India, Power Grid, ONGC, among others. These companies offer a wide range of roles such as mechanical engineers, design engineers, manufacturing engineers, project managers, and research associates, providing ample opportunities for professional growth.

Apart from the industrial sector, graduates can also pursue careers in research organizations such as BAARC (Bhabha Atomic Research Centre), HAL (Hindustan Aeronautics Limited), IGCAR (Indira Gandhi Centre for Atomic Research), DRDO (Defence Research and





Development Organisation), and many more. These organizations offer exciting opportunities for research and innovation, enabling graduates to contribute to cutting-edge projects and advancements in the field of mechanical engineering.

## ACADEMIC HIGHLIGHTS

The Department of Mechanical Engineering at the Islamic University of Science and Technology stands out for its exceptional academic offerings and initiatives.

- The department not only provides a robust curriculum but also introduces cutting-edge opportunities through elective courses. These courses cover contemporary technologies in energy, robotics, and computational mechanics, including instruction in robotics, Finite Element Analysis, and Non-Conventional Sources of Energy.
- In addition to academic rigor, our students receive valuable support in preparing for competitive exams such as GATE, CAT, and others. The department's commitment to nurturing well-rounded professionals is evident in the successful qualification of our students in these challenging examinations.
- Facilitating hands-on learning experiences, the department ensures academic progress by arranging internships at renowned institutions across the country. Students have had the privilege of internships at esteemed institutes like IIT Bombay, IIT Kanpur, IIT Madras, IIT Jammu, IIT Ropar, Rail Coach Factory, Indian Railways, NHPC, HPCL, IVRCL, among others.
- Notably, the department has further elevated its academic offerings by introducing a pioneering Minor/Honors Degree Program. Commencing from the batch of 2023 onwards, this program allows students to specialize in cutting-edge areas like Robotics and Automation or Computational Mechanics, reinforcing our commitment to providing a comprehensive, industry-relevant curriculum.

These academic initiatives, combined with competitive exam preparation assistance and internship opportunities, contribute significantly to the overall academic excellence and career readiness of our students. The Department of Mechanical Engineering at IUST remains dedicated to shaping well-equipped and forward-thinking engineers for the challenges of the future.

# POLYTECHNIC COLLEGE

## VISION

- ❖ To produce technically trained knowledgeable human resource with moral and ethical standards to the relevant to the user organizations and society at large.
- ❖ To strengthen industry institute and community interaction to contribute in the industrial and community development.
- ❖ To nurture the culture of innovation, Quality leadership and entrepreneur skills among students.

## MISSION

- ❖ Offer mentor based quality education to the students
- ❖ Enhance the quality of faculty members through faculty development programmes.
- ❖ Ensure adequate exposure to students to the actual world of work by conducting industrial visits and trainings.
- ❖ Enhance the interaction with industry and community of mutual benefits.
- ❖ Expose students to the latest technologies and trends in technical education.

**YEAR OF ESTABLISHMENT:** 2012

## ACADEMIC PROGRAMMES

- ❖ **Diploma in Civil Engineering**
- ❖ **Diploma in Electrical Engineering**
- ❖ **Diploma in Mechanical Engineering**

**DURATION:** 03 years (06 Semesters)

## WHO CAN APPLY?

Having passed 10<sup>th</sup> class or equivalent examination with a minimum of 35% marks with Science and Mathematics as compulsory subjects.

## PROGRAMME EDUCATIONAL OBJECTIVES

The Institution offers three-year diploma programmes in Civil/Electrical and Mechanical Engineering with the objective of providing trained Human resource to the industry/user organizations besides inculcating entrepreneur skills among the students.

## FACILITIES

The polytechnic college has been shifted to new campus near national highway Jk bank Awantipora & has state of art building. Besides the college is using all the infrastructure / recourses of the university as & when required.

## CAREER PROSPECTS



- ❖ Students after completing diploma courses can go for junior level Posts in Govt. Or private sector.
- ❖ They can apply for posts like J.E, Demonstrator, W/I, Technician Supervisor.
- ❖ The best job option for the students after Polytechnic is to start their own company and become self-employed.

## ACHIEVEMENTS/ ACADEMIC HIGHLIGHTS

PMSSS toppers from this Institute for the year 2019-20, 2020-21 and 21-22

## FUTURE PLANS

- ❖ Three-year Diploma in MLT
- ❖ Three-year Diploma in Computer Science





# CENTRE FOR INNOVATION & ENTREPRENEURSHIP DEVELOPMENT

## VISION

"To nurture innovation and entrepreneurial culture amongst the youth and thereby, enable them to serve as instruments for enriching the society as a whole".

## MISSION

"To act as a catalyst in promoting a culture of entrepreneurship through education, training, research and institution building which, in turn, will help achieve inclusive and sustainable growth of J&K".

## CORE VALUES

The values of CIED lie in 'DISHI' means path with peace, but also representing Diversity, Integrity, Sustainability, Humanity, and Inclusion as the fundamental core principles of CIED to develop this Institution of eminence. The CIED has seven verticals that will help the students from the ideation stage to the final commercialization stage of the product/service line in the market as successful start-ups. This will inculcate in them the thrill and skill of becoming 'job providers' rather than remain as 'job seekers' in the market. In addition, we will strive to instil the seeds of a holistic mindset of sustainable and socially inclusive growth among the students so that they become real human beings.

## OBJECTIVES OF THE CENTRE

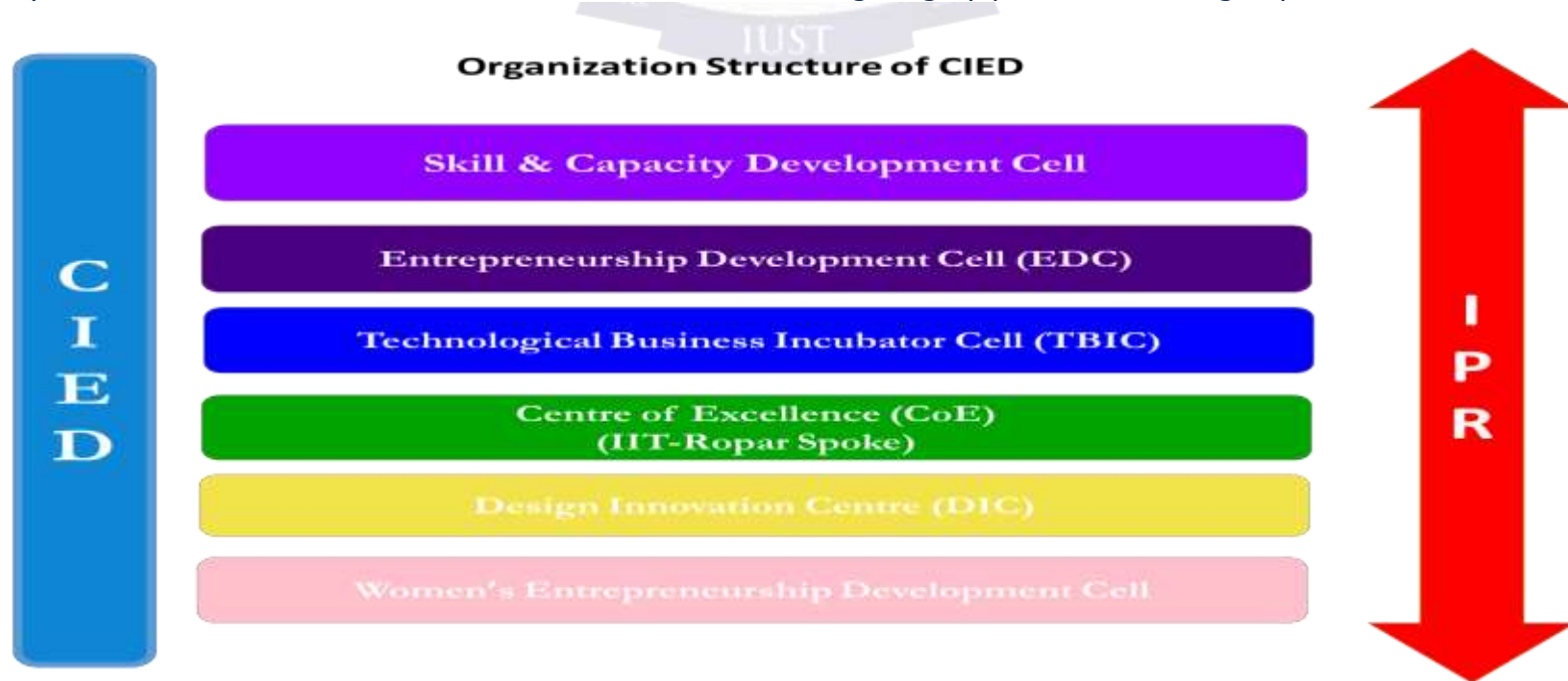
- ❖ To create awareness and provide entrepreneurship education to the potential entrepreneurs.
- ❖ To design and conduct capacity building and training programs to promote and develop entrepreneurship among various stakeholders' groups.
- ❖ To train, mentor and handhold existing and potential entrepreneurs and IUST students, to establish new businesses.
- ❖ To maintain, operate and share infrastructure that would provide technical training through incubation labs to potential and existing entrepreneurs.
- ❖ To establish and maintain a resource Centre to enable knowledge creation and sharing in the area of management, science, engineering and technology.
- ❖ To integrate entrepreneurship in the academic programs of IUST and, promote entrepreneurship among students of IUST.
- ❖ To collaborate with various funding agencies trade and commerce bodies, industry and training Centre's for entrepreneurship development.
- ❖ To provide training and development sessions to rural community (including schools, colleges, and villages) as part of Corporate Social Responsibility (CSR)
- ❖ To collaborate with various institutions and experts for helping and guiding the entrepreneurship development activities



## INTRODUCTION

Innovation and entrepreneurship is imperative for development and improving the economy of the country. The successful entrepreneurship development leads to business development, social change, and community development. The whole purpose of entrepreneurship development is to increase the number of start-ups and thereby making country export oriented. Entrepreneurship is always supported by innovations which nurtures novel ideas and transforms them into products, processes and services for the commercial exploitation and thereby making society self-reliant. The core philosophy of Centre is to change the mindset of youth towards innovation and entrepreneurship, as this region is facing huge challenge of unemployment scenario.

Thus, establishing a Centre for Innovation and Entrepreneurship Development (CIED), specifically in the rural area is of eminence importance for bringing the grass root change in the society. The Centre has developed an enabling ecosystem for innovation and entrepreneurship by encompassing many units of the university. The Centre specifically encourage budding entrepreneurs by infusing critical, lateral and design thinking, thereby nurtures their ambitions and enable new ventures through highly practical learning experience.



**YEAR OF INTRODUCTION & ESTABLISHMENT:** 2021

## THRUST AREAS OF THE CENTRE:

Food technology/ Agri-Business (Saffron, Paddy, Apple, dry fruits etc.)/ IOT-Machine Learning- AI- Cloud technologies/ Medicinal plants/ Manufacturing/ Services sector/ Handicrafts



## ACHIEVEMENTS

- ❖ ARIIA 8th Rank under Band Performer category at National Level
- ❖ IUST Entrepreneurs Alumni Association
- ❖ JK Bats
- ❖ Sehar perfume Success story
- ❖ Sunshine Washing Centre for Girls Hostel
- ❖ Alps Savy -Adventure Tourism Startup
- ❖ Discovery International Tour and Travels
- ❖ Highest Number of Entrepreneurship Camps organised by CIED (32 No.)

## ASSOCIATION

- ❖ IIT Ropar SPOKE centre
- ❖ IIT Ropar MOU AWaD Project
- ❖ MOU GIAN India
- ❖ MOU Industrial Association Lassipora, representing 500 industrial Units of Industrial estate, Lassipora
- ❖ MOU with GDC Women, Pulwama
- ❖ MoU with Govt Degree College Anantnag

## FUTURE PROGRAMMES OF THE CENTRE:

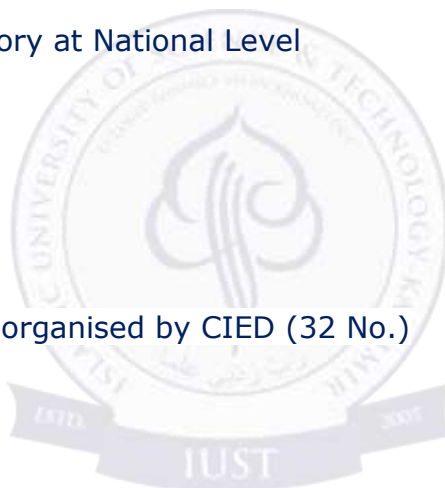
- ❖ Establishing Software Technological Park of India (STPI) at IUST
- ❖ Introducing Open Elective Courses on Ecological entrepreneurship
- ❖ Open elective industry specific courses in collaboration with industries like industry association Lassipora
- ❖ Training and development programs on innovation, entrepreneurship, technological development for local industries
- ❖ Open elective course on digital/ social media marketing.

## ACADEMIC PROGRAMMES

Training and Development Programmes for students, MSME, new entrepreneurs etc.

## TEAMS/COMMITTEES:

- ❖ Team for Skill and Capacity Development Committee
- ❖ Team for IPR/Registration Committee
- ❖ Team for EDC:
- ❖ Team for Technological Business Incubator (TBIC)-1 Committee
- ❖ Team for Centre for Excellence (CoE) & IIT-Ropar Spoke
- ❖ Team for Design Innovation Centre (DIC)
- ❖ Women Entrepreneurship Development Cell (WEDC)







## **FACILITIES:**

- ❖ Training and Development Lab
- ❖ Technological Business Incubator Centre (TBIC)-1

## **PROGRAMMES OFFERED:**

Plans to offer open elective subject in different streams of engineering and entrepreneurship which would be taught by people from the industry. Moreover, two open elective courses will be introduced shortly.

## **ASPIRATION OF THE CENTRE**

Centre for Innovation and Entrepreneurship Development (CIED), aspires to be premiere innovation and incubation centre at national level.

## **FUTURE THRUST AREAS**

Food technology/ Agri-Business (Saffron, Paddy, Apple, dry fruits etc.)/ IOT-Machine Learning- AI- Cloud technologies/ Medicinal plants/ Manufacturing/ Services sector/ Handicrafts

## **RECENT ACTIVITIES**

- ❖ One day National Workshop on “Fundamentals of Patenting for Entrepreneurs” organized IPR Cell of CIED.
- ❖ Academia-Industry Conclave



# DESIGN INNOVATION CENTRE

## MISSION

- ❖ Promote a culture of innovation and creative problem solving with a focus on student driven innovation applied to address local problems.
- ❖ Serve as a place that imparts design-based education and encourages interdisciplinary design-focused innovation.
- ❖ Promote experiential learning through hands-on projects.
- ❖ Promote knowledge sharing and collaboration amongst industry, academia, Government Institutions and research laboratories.

## VISION

Design Innovation Centre, Islamic University of Science and Technology aspires to nurture a culture of creativity and innovation amongst the youth so that they become harbingers of positive change and serve as instruments that enrich the society.

## OBJECTIVES

The major objectives of DIC@IUST include:

- ❖ Establish facilities for innovative product design
- ❖ Teach elective courses on product design and development
- ❖ Promote a culture of innovation and creative problem solving
- ❖ Conduct workshops and training themed on design and innovation.
- ❖ Promote student driven innovation especially to solve local problems.
- ❖ Promote knowledge sharing and collaboration with industry.

## INTRODUCTION

Design Innovation Centre at IUST, (DIC@IUST) was established in 2015 under the MHRD scheme of National Initiative for Design Innovation (NIDI), as a spoke of DU under the Hub-spoke model. In 2018, DIC@IUST became a permanent centre of the university.

The major objectives of DIC@IUST include establishing facilities for product design, teaching elective courses on design and innovation, workshops and training on design and innovation. A state-of-the-art innovation lab at DIC@IUST was established having facilities for computer aided design, 3D printing and scanning, electronic design and verification, Laser cutting etc.

DIC@IUST has been consistently conducting and offering elective courses, certificate courses, short term training programs, workshops, internships, fellowships and school outreach programs in design thinking, innovation, and new technologies like 3D printing to students across educational domains and institutions. Hundreds of students have been directly benefited by these activities. We have also encouraged and funded student driven design innovation products and processes in Mechatronics, Embedded systems, Social Intervention and Education.



Since our inception we have focused on student driven innovation especially to solve local problems, and we have received tremendous response from the student community at IUST. Students at IUST have played an instrumental role in the growth and evolution of DIC. They have been working on their own creative ideas, scouring for local problems to solve, organizing workshops and conducting outreach programs amongst school children.

Our special focus on addressing local problems through innovative technological interventions has yielded many products including: wearable wrist band with vibro-tactile feedback for visually impaired, an assistive Haptic device for refinement of motor skills in children with learning disabilities, Low-cost energy saving Kashmiri hypocaust (underfloor heating system), Automatic book page flipper for neck-down disabled, Negative Pressure Chamber System, Frugal Ventilators, Knee Exoskeleton For Assistive Walking, System for automation and protection of Hybrid Orchards, etc

## PROGRAMMES

From this year onwards, DIC would be the coordinating department for a new B.S. programme launched in an innovative mode called Design Your Own Degree (DYOD). Students admitted in this program will have an option to major in any one of the disciplines (Artificial Intelligence/ Mathematical Sciences/ English/ Data Sciences/ Media Studies/ Islamic Studies/Economics) for the Academic Session 2023.

## ELIGIBILITY

Having passed 10+2 with a minimum of 50% marks (with a relaxation of 5% in case of reserved categories) from the J&K Board of School Education or from any other recognized board.

## INTAKE CAPACITY: 30

**DURATION:** 4 Years (8 Semesters)

## FACILITIES

- ❖ State-of-art facilities such as 3D printing, high end workstations, state-of-the-art software for Computer aided design, modeling and simulation.
- ❖ Basic facilities towards robotic and embedded system design which include FPGA kits, electronic measurement devices, microcontroller kits, robotic arm, bots and other power tools.
- ❖ Faculty mentors.
- ❖ Hassle free access to students and faculty for working on project ideas.

## CAREER PROSPECTS

Students who work at DIC learn a lot about hands on technologies and get to know about real world problems. They innovate products and technologies which they can later on convert into a full-fledged start-up and thus can commercialize their innovations.





## ACTIVITIES

- ❖ Design and Innovation Workshops: To provide a platform for both students and faculty for applying design thinking to everyday challenges, DIC conducts Design and Innovation Workshops every year. Till date, DIC has conducted five such Design and Innovation workshops at its premises.
- ❖ Winter Innovation Award: DIC conducts Winter Innovation Award (WIN) for students to work on their innovative ideas during winter vacations, hence, encouraging them to go beyond the traditional academic experience. Nine ideas have received the award and have been successfully completed.
- ❖ School Outreach Programs: DIC has a mandate of taking design thinking to schools through School Outreach Programs. The program focuses on channeling the creative energies of school kids towards innovation and inculcating in them a spirit of problem identification and solution development. One such outreach program 'Science for Entertainment' was conducted in September 2018 with students from Lyceum International School, Pulwama. A second outreach program "Innovation with Kids" was conducted in June 2022 with students from Solace International High School, Pulwama.
- ❖ Summer Internship Program: To bridge the gap between a successful proof - of - concept Prototype to a market ready product, DIC offers summer internships of 2 – 3 month duration to recent graduates. Twenty-one internships have been offered so far.
- ❖ Training Programs: DIC@IUST has conducted two-month long training programs on 'Embedded Systems and Robotics' and 'Embedded Systems for Mechatronic Design' in which Students of IUST and other universities of the state were given a state-of-art exposure to embedded system design, robotics and mechatronics.
- ❖ IPR related work in relevant projects.
- ❖ Consultancy services to local industries.

## ACHIEVEMENT

- ❖ Since 2015, DIC has established a state-of-the-art innovation lab at IUST having Computer aided design, 3D printing and scanning, electronic design and verification, Laser cutting facilities etc. We have been conducting and offering elective courses, certificate courses, short term training programs, workshops, internships, fellowships and school outreach programs in design thinking, innovation, and new technologies like 3D printing to students across educational domains and institutions. Hundreds of students have been directly benefited by these activities. DIC has encouraged and funded student driven design innovation products and processes in Mechatronics, Embedded systems, Social Intervention and Education. We have focused on solving local problems through innovative technological interventions, examples of such products include: wearable wrist band with vibro-tactile feedback for visually impaired, an assistive Haptic device for refinement of motor skills in children with learning disabilities, Low-cost energy saving Kashmiri hypocaust (underfloor heating system), automatic book page flipper for neck down disabled, negative pressure chamber system, etc.
- ❖ DIC has filed 10 technical patent applications and 17 design patent applications till date out of which 9 technical patent applications have been published and 13 design patents have been granted.

## FUTURE PLANS



- ❖ DIC@IUST aspires to play a pivotal role in leading IUST to create a visible impact in the area of Design and Innovation.
- ❖ It aspires to serve as a fountain-head for promoting rich interdisciplinary interaction that aims to solve local problems and obtain technological breakthroughs - positively impacting human life.
- ❖ It aspires to create an environment that encourages exploration and experimentation and also nurture an ecosystem for start-up development.
- ❖ DIC would continue to serve as a place that imparts design-based education and encourages interdisciplinary design-focused innovation, promoting experiential learning through hands-on projects.
- ❖ It aspires to provide the right platform and ecosystem for knowledge sharing and collaboration amongst industry and academia.
- ❖ In the near future, DIC@IUST is planning to offer a Minor Specialization in Design Innovation to B.Tech students of IUST. This would be followed by offering a full-fledged degree program in Design Innovation.





# Centre for Artificial Intelligence

## VISION

To achieve excellence in quality education and research through utilization of cutting-edge tools, fostering a collaborative culture, and promoting innovations in the field of AI.

## MISSION

- ❖ Develop state-of-the-art infrastructure, empowering students and researchers with cutting-edge AI tools.
- ❖ Fostering excellence in quality education while continuously striving to provide students with the latest industry skills and technologies.
- ❖ Promote a culture of innovation and collaboration in AI, dedicated to achieving excellence in cutting-edge interdisciplinary initiatives that address societal challenges.

## INTRODUCTION

In ushering a new era of educational excellence, we proudly introduce the M. Tech program in Artificial Intelligence at our esteemed university. This program is crafted to align with the principles of the New Education Policy (NEP) 2020, placing a significant emphasis on nurturing the creative potential of students. Simultaneously, it emphasizes to meet the evolving needs of dynamically changing data driven world, leveraging cutting-edge tools and fostering a collaborative culture in line with our overarching vision and mission in the field of artificial intelligence. This M. Tech program stands as a response to the industry's demand for skilled Artificial Intelligence (AI) and Machine Learning (ML) professionals, making a significant impact on the local and global workforce. Our initiative not only addresses the immediate needs of industry but also emphasizes the pivotal role of research excellence in the AI and ML domains. The program while laying emphasis on the principles of NEP 2020 to accord highest emphasis on the foundational aspects with a multidisciplinary and holistic approach. The program aims to create an education center for AI, fostering an environment conducive to cutting-edge research that facilitates breakthroughs and advancements.

By imparting knowledge in cutting-edge technologies such as deep learning, natural language processing, computer vision, and reinforcement learning, the program empowers students to develop innovative solutions and contribute to advancements in various domains. This forward-thinking approach aligns with the transformative power of AI and ML, which goes beyond mere automation to address complex societal challenges. Our program prepares students with technical skills and the ability to steer data-driven decision-making. Mastering these techniques has become essential for extracting valuable insights from vast datasets, enabling informed decision-making and providing a competitive edge. We envision our M. Tech graduates as not only industry-ready professionals but also as pioneers capable of addressing business and societal challenges through their expertise and research.

**YEAR OF ESTABLISHMENT:** 2024



**ACADEMIC PROGRAMMES:****❖ M. Tech. in Artificial Intelligence (AI)**

The M. Tech program spans two years. The course curriculum has been developed in accordance with the AICTE Model Curriculum and in consultation with industry experts to align with the latest advancements and industry requirements, consisting of core concepts, practical skills, and hands-on experience is a balanced blend of theoretical coursework, laboratory exercises, and industry-oriented projects. The program will culminate in the fourth semester where the students will demonstrate understanding of vital principles learned across semesters by successfully applying the knowledge gained during the programme to real-world complex problems. Students will also have the opportunity to participate in internships and industry collaborations to gain real-world experience.

**ABOUT THE COURSE****M. Tech. in Artificial Intelligence (AI)**

The M.Tech. in Artificial Intelligence program is designed to equip students with advanced knowledge and practical skills in Artificial Intelligence and its applications. The curriculum covers a wide range of topics, including machine learning, neural networks, deep learning, natural language processing, and robotics. Students will gain hands-on experience through lab sessions, projects, and industry collaboration. This program aims to foster innovative thinking to prepare graduates for leadership roles in AI research, development, and implementation across various sectors.

**DURATION:** 02 Years (04 Semesters)

**WHO CAN APPLY?** B. Tech / BE in any branch of Engineering **OR** MCA/ M.Sc. Information Technology/ M Sc. Electronics with a minimum of 60% marks.

**PROGRAM EDUCATIONAL OBJECTIVES (PEOS)**

- ❖ Build a strong foundational capacity in the core areas of mathematics, statistics and programming languages.
- ❖ Acquire deep understanding, expertise and hands-on implementation skills in the fundamentals of Data Science, Machine Learning, Computer Vision and Natural Language Processing.
- ❖ Implement state-of-the-art tools, techniques and platforms across various fields of AI and gain proficiency in utilizing High-Performance Computing platforms for problem solving in AI
- ❖ Empower students to approach challenges in AI with a rigorous and analytical mindset, fostering the spirit of creativity, critical thinking and problem-solving encouraging collaboration across disciplines in line with NEP's emphasis on conceptual understanding and creativity.
- ❖ Inculcate students with professionalism and a strong ethical foundation to contribute responsibly in addressing societal challenges through AI as emphasized in NEP 2020.
- ❖ Equip students with industry-relevant skills and expertise, ensuring they are well-prepared to meet the ever-evolving professional demands of the industry.



## FACILITIES

### High Performance Computing (HPC) Lab:

Established in 2020 at the Islamic University of Science and Technology, Kashmir with an investment of approximately 5 crore rupees, the High-Performance Computing (HPC) Lab stands as a beacon of cutting-edge technology. Outfitted with state-of-the-art equipment, it boasts two Precision AC Smart Racks, comprising one Head Node, seven Compute Nodes, two Storage Nodes, and a Mellanox Switch with a blazing 100Gb/s speed. Additionally, it features a 24-port Ethernet switch with 1 Gb/s and a 48-port Ethernet Switch with 1 Gb/s dedicated for Management purposes.

The Head Node, the heart of the system, houses dual Intel(R) Xeon(R) Gold 6242R CPUs clocked at 3.10GHz, each flaunting 20 cores/40 threads. With a colossal 1 TB of RAM and storage comprising 960 GB SSD SATA and 24 TB@7.2K NLSAS, it stands as a powerhouse of computational prowess.

Compute Nodes, the workhorses of the lab, include three GPU Nodes and three CPU Nodes, all equipped with dual Intel(R) Xeon(R) Gold 6242R CPUs, matching the processing might of the Head Node. Boasting 512 GB of RAM and storage featuring 2\*960 GB SSD SATA, these nodes ensure seamless parallel computing tasks. Moreover, the GPU Nodes are fortified with Nvidia Tesla V100 32 GB Graphics Cards, elevating the lab's capabilities in machine learning and scientific simulations.

Recently, the lab underwent a significant upgrade with the addition of a new node featuring Intel(R) Xeon(R) Gold 6338 CPUs, each armed with 32 cores/64 threads with a staggering 1 TB RAM configuration and storage comprising 960 GB SSD. This node amplifies the lab's computational potential. Furthermore, it integrates four NVIDIA A100 80GB PCIe Graphics Cards, enhancing its prowess in advanced computational tasks.

The combined might of this cluster manifests in a staggering performance of approximately 10 TFLOPS, supported by a vast 160 TB available storage, harnessing the collective power of 304 Compute Cores and 43,008 CUDA Cores. Undoubtedly, the HPC Lab stands at the forefront of computational research and innovation, poised to tackle the most demanding scientific challenges of the modern era.

In addition to the HPC lab, students will have access to the Embedded Systems Lab, Robotics Lab and IoT Lab housed in the Department of Computer Science and Engineering.

## CAREER PROSPECTS

This program offers a pathway to dynamic career opportunities in one of the fastest-growing fields globally. Students can embark on exciting roles such as Machine Learning Engineers, Data Scientists, AI Product Managers and Robotics Engineers.



### **R&D PROJECT ACTIVITIES**

The faculty members of the Centre are actively engaged in research projects funded by various agencies such as DST, ICMR, and DBT. Noteworthy among these projects is our endeavour to detect metastasis and identify deregulated oncogenic signalling pathways by leveraging H&E images. Moreover, we employ AI techniques to forecast therapy responses in patients with ovarian and gastric cancers. Our research scope also encompasses protein-protein interaction analysis, drug discovery, bioinformatics, and Alzheimer's disease. We adopt an innovative approach, including the use of Deep Reinforcement Learning, to tackle challenges posed by small and imbalanced datasets. Additionally, we focus on addressing gene mutation issues to unravel disease mechanisms and identify potential therapeutic targets through AI methodologies.

### **DISTINCTIVE ACHIEVEMENTS**

Our accomplishments stand out prominently by our procurement of prestigious projects such as the Establishment of an Interdisciplinary Science and Technology Research Program for Chronic Diseases (DST PURSE Scheme, 2023), the Study of Magnetic Properties of Perovskites using Artificial Intelligence (SERB, 2023), and the development of an Artificial Intelligence-based Deep Learning Model to Predict Gastric Cancer Tumor Heterogeneity and Therapeutic Response Using Histopathology Images (ICMR, 2022).

### **FUTURE PLANS**

Our future plans include the introduction of PhD program in Artificial Intelligence besides offering majors in the domain of Artificial Intelligence and Machine Learning for DYOD students.





# SCHOOL OF ARCHITECTURE AND PLANNING

School of Architecture and Planning has been conceived to achieve the highest standards in Architectural Education, in order to enhance, consolidate & revitalize the process of architectural design, thus evolving a strong base that is progressive, dynamic and more relevant to the evolving socioeconomic and geographical context. The School of Architecture strives to use design thinking and creative problem solving to address the issues faced by contemporary society. The School envisions to foster creative spirit in our students to evolve as innovative citizens through dedication to responsibility, innovation in training, continuous improvement and conviction in human values.

The school currently comprises of one department as under:

❖ **Department of Architecture**



# DEPARTMENT OF ARCHITECTURE

## MISSION

The Department of Architecture is focused to produce thorough professionals ready to face inter-generational design challenges in the field of Architecture and Urbanism; who can practise the values related to the paradigm of sustainable development and have a pluralistic understanding of broad arrays of design as a discipline.

## VISION

Architecture as a discipline is both critical as well as analytical; and is therefore vital to the global paradigms of sustainability. The Department of Architecture, with a keen understanding of challenges faced by the modern society in terms of societal, environmental, and developmental needs, envisions its place in catering to the society at highest standards.

## INTRODUCTION

Department of Architecture was established in the year 2020 under the School of Architecture and Planning at Islamic University of Science and Technology, Awantipora. The Department currently offers Bachelor's Degree program in Architecture. Bachelor of Architecture (B. Arch) focuses on the subjects from the fields of art, design, technology, social sciences and the professional practice of architecture.

**YEAR OF ESTABLISHMENT:** 2020

## ACADEMIC PROGRAMMES

❖ **Bachelor of Architecture (B. Arch)**

### ABOUT THE COURSE

#### **Bachelor of Architecture (B. Arch)**

B. Arch. programme recognized by the Council of Architecture, New Delhi, is a generous mix of both theory and studio exercises as well as practical sessions. As per the Council of Architecture (New Delhi), the course is now divided into two distinct stages: a Basic Stage and an Advanced Stage.

The Basic stage or Stage 1 comprises of Semester 1 to Semester 6 and the Advanced Stage or Stage 2 comprises of Semester 7 to Semester 10.

In Semester 8, students go on a 100-day Professional training to a Registered Architectural Firm. In Semester 9 and 10, students deal with more complex and advanced architectural projects and complete the Design Dissertation through Semester 9 and 10 before they complete the B. Arch Course.

**DURATION:** 5 years (10 Semesters)



### WHO CAN APPLY?

Having passed 10+2 from the J&K Board of School Education or from any other recognized board with Physics, Chemistry & Mathematics as compulsory subjects **OR** Having passed 10+3 Diploma Examination with Mathematics as compulsory subject

### AND

In addition to above, the candidates need to have qualified National Aptitude Test in Architecture (NATA)-2024 conducted by Council of Architecture OR Having appeared in JEE (Paper-2A) 2024.

### PROGRAMME EDUCATIONAL OBJECTIVES

The Department of Architecture, established in the year 2020, is a new department at the University. It has already been at the forefront of establishing and promoting values of creativity, design, and ethos of architecture in the society. Our brilliant and capable faculty who are trained in various specialized disciplines of Architecture and Design create a conducive and inclusive learning environment in the studios and on site.

At the Department of Architecture, we believe in imparting a holistic training in architecture and design, inculcating in our student's-skill, knowledge, capacity, and confidence to shape and transform our built environment and simultaneously address the challenges of climate change, sustainability and equitable development.

### CAREER PROSPECTS

The career opportunities for architects are very diverse in both Governmental as well as private sector because of the boom in construction and an increased demand for aesthetically designed, functional spaces that improve the quality of life of its users. Architects can also work in the sectors of construction, urban planning, urban development corporations, public works departments, interior designing, etc. Government Organizations offering jobs to the B.Arch Candidates are: Archaeological Department, National Building Organization, Ministry of Defence, Departments of Railways, Housing and Urban Development Corpora - tion, Public Works Department, etc. Some other organizations that also hire architects are: Builders, State Departments, Consultants, Local Bodies for construction works, Architecture Firms, etc. Candidates trained as architects have a strong potential to explore various entrepreneurial and innovation based start-up options.

The immediate and long-term goal of the Department is to broaden its domain from architecture to the larger urban realm and venture into the domain of planning. The department is dedicated to setting up the base for research and development as well as in house consultancy services. Students being a valuable resource will also assist in various documentation exercises and contribute to original research work that can provide innovative solutions to the challenges our city and the world at large faces today.





# STUDENT SUPPORT

## DEAN OF STUDENTS

### ABOUT

The Office of Dean of Students functions for the overall benefit and welfare of the student community of the University. The Office of the DOS fully addresses the academic and social concerns of students via interaction in different forms. It also deals with all queries and complaints from students regarding education. The office works closely with an organized body of students, the Student Council, which has representatives (1 male and 1 female) from each semester of university.

Dean of Students supervises the management of the hostels, cafeteria, mess facilities, medical, health services, transport facilities, and exercise general control & supervision of the students, extra-curricular activities such as sports, cultural and recreational activities, prepare calendar of student welfare activities of the university every year in consultation with Heads of the Departments and Deans, plan and direct program of student Advertisement and counseling and to enlist the co-operation of prospective employees. The office promotes discipline amongst the students of the university and deal with cases of indiscipline in the University campus, promote social and moral values of students and inculcating in them the qualities including devotion of duty, pursuits of truth, social values and patriotism, recommend on the students for educational tours / tournaments, debates and for travel to home vacations.

### VISION

The Dean of Students office strives to establish and deliver highest standards of excellence in student service and foster an inclusive safe and conducive environment within the campus.

### MISSION

The Dean of Students office aims to support the holistic development of students through experiences and services that contribute to their overall personality development in and out of the classroom, enhance the students experience at the campus and prepare students for life after graduation. In doing so it will collaborate with all stakeholders for developing an effective and coherent system.

### CORE VALUES

Integrity/ Respect/ Inclusiveness/ Civility/ Lifelong learning/ Embracing Diversity/ Responsibility



# FACILITIES

## ONLINE GRIEVANCE REDRESSAL CELL

With the aim of addressing the different issues faced by the students, the Office of the Dean of Students has established a Student Grievance Redressal Committee (SGRC) wherein all aggrieved students are required to approach the committee for redressal of their grievances. Students / employees / others can convey their grievances to the Office of the Dean of Students through their student/ employee login. The acknowledgement is sent through login portals or email Id's of students and they can check the status of their grievances and status of action taken on their complaint through the login portal.

Students then certify whether the corrective action taken on their grievance satisfies them or is not substantial enough. The complaint may be marked as pending again or be forwarded to a more senior official for further necessary action, if the feedback from the student/ other is not substantial enough.

## HEALTH CENTRE

The IUST Health Centre provides the basic necessary facilities to the students in health services, which is being operating by 24× 7 with ambulance facility having all basic aids available in the van. Under the ambit of Dean of Students, Health Centre organizes various events like blood donation camps, awareness about mental health issues etc within the Campus of IUST and at community level.

## HOSTELS

There are six (06) Hostels operating in IUST viz,

- ❖ *Jhelum Girls Hostel*
- ❖ *Indus Girls Hostel*
- ❖ *Chenab Boys Hostel*
- ❖ *Verinag Boys Hostel*
- ❖ *Sadr-e-Mouj Hostel*

In these Hostels two (02) are at Alamdar Memorial College of Nursing & Medical Technology Chair -e -Shareef, Budgam with boarding capacity almost eleven hundred in all hostels.

## TRANSPORT

The University has a big fleet of 45 buses that ply across major geographical routes like Shopian, Srinagar, Pulwama, Anantnag, Kulgam, Qazigund, Tral also covering their adjoining areas. The buses on these routes ferry students and staff to and fro on a daily basis. The transport facility provided by the University for its students and staff is very cost-effective and also enables them to a safe and hassle free pick and drop facility. Due to the limited number of vacancies, the allotment is made as per the receipt of online applications notified during



the month of February for Spring Session (Feb-July) and August for Autumn Session (Aug- Jan), however the first preference is given to physically disabled and girl students and then other applicants. The students can also opt for route change or cancellation post transport allotment from their respective login ID's created at the time of applying for the first time.

The University being situated adjoining National Highway, the students can also avail the private and government transport facility which plies frequently between different districts to IUST Campus at Awantipora.

## CANTEENS

There are three (03) Canteens operating within IUST Campus, supervised by Dean of Students for providing good quality of food to the students.

- ❖ *Wasturvan Canteen*
- ❖ *Nunkun Canteen, and*
- ❖ *Pir Panjal Coffee House*

Further, a new large canteen building is ready and will be functional very soon which will augment the current facilities.

## DAY CARE CENTRE

The Day Care Centre is one of the important responsibilities that Islamic University of Science and Technology is shouldering for the benefit of female employees of the university. This center has been established within the campus in February 2022 and since then many of the female employees are using the service for their kids.

## COMMON ROOMS

There are eight common rooms in the IUST Campus under the ambit of Dean of Students for both boys and girls in different buildings, where the students of different departments are spending their free time for accompanying their extra assignments.

## STATIONERY SHOP AND PROVISIONAL STORE

The university has provisional store cum stationery shop where the students / staff can get photocopy, spiral binding, lamination etc. The facility is run by a handicapped person and generates employment for him alongwith two other staff members. The Dean of Students keeping on checking of the facility for the students at minimal rates.

## ACTIVITIES

The Office of Dean of Students organizes various programs sponsored by the Government of India and by the Finance Section of IUST. The events include:

*Seminars/ Workshops/ Conferences/ Webinars/ Cultural Events/ Sports Activities/ Health Programmes*





## **BANKING FACILITIES**

The J & K Bank has opened its full-fledged branch with ATM facility in the University campus for the benefit of students and staff. The branch was inaugurated on 9<sup>th</sup> of November 2012.

## **RADIO STUDIO**

The University has established a fully equipped radio studio with support from Panos South-Asia. The studio has facilities for audio recording and editing, as well as video recording and editing. A community radio programme 'Peshkadam' is produced in the studio by a group comprising of students and people from community.

The members are actively involved in the radio programming, right from concept development to anchoring. 385 episodes of 'Peshkadam' have been broadcasted till March 2019. Programs produced on campus are broadcasted fortnightly on each alternate Sunday from Commercial Broadcasting Service, Srinagar.





# SCHOLARSHIPS

The Office of the Scholarship administers, inter alia, merit-based scholarships. In order to overcome financial obstacles encountered by the students in pursuing their studies, Islamic University of Science and Technology (IUST), substantially, endeavors to facilitate various opportunities of scholarships which are offered/awarded by various departments/agencies.

IUST has been playing a pioneering and proactive role amongst all the educational institutions of the UT of J&K in administering the system developed by the Central and UT Governments in such a way that has led the University to gain significant number of scholarships. There are number of schemes introduced by various departments of Central and UT Government as per the details listed below:

## Central Schemes

- ✚ *Post Matric scholarship scheme for Minorities*
- ✚ *Merit Cum Means Scholarship for Professional and Technical Courses CS*
- ✚ *Post-Matric Scholarships for students with Disabilities*
- ✚ *Centrally Sponsored Scheme of Post Matric Scholarship for ST students of Ladakh*

## UT Schemes

- ✚ *Post Matric Scholarship to ST Students -Jammu And Kashmir*
- ✚ *Labour And Employment Scheme for students whose parent is registered with J&K Building and Other Construction Workers Welfare Board*

## UGC Schemes

- ✚ *PG Indira Gandhi Scholarship for Single Girl child*
- ✚ *National Scholarship for Post Graduate Studies*

## AICTE Schemes

- ✚ *Pragati Scholarship Scheme for Girl Students (Technical Degree/ Diploma)*
- ✚ *Saksham Scholarship Scheme for Especially Abled Students (Technical Degree/ Diploma)*
- ✚ *Swanath Scholarship Scheme (Technical Degree/ Diploma)*

The detailed eligibility criteria and guidelines of the aforesaid schemes are available on the IUST website.

IUST is in constant touch with various Government Departments such as Ministry of HRD GoI, Department of Social Welfare, Directorate of Tribal Affairs and All India Council for Technical Education (AICTE) in an endeavour to explore further possibilities for the IUST students to grab more and more scholarships to support their studies.

The procedure is meticulously being followed by notifying the students in due course about any such opportunity and accordingly they are being briefed about the formalities to be fulfilled as required. Further, the application forms are properly scrutinized and in case of any discrepancies in the application form, the students are again informed to clear the lacunae and thereafter the online application forms complete in all respects are forwarded to the concerned UT nodal agency for further proceedings.

The number of scholarships sanctioned to the IUST students has increased tremendously which have benefitted 1921 meritorious and financially backward students till 2014, and from the year 2015 onwards 2719 students have been benefited with the scholarship amount which is being credited into the accounts of the students through different nodal agencies. In the year 2021-22 the Scholarship cases of 744 students have been processed for release of scholarship. Out of these 744 candidates, 418 students received the scholarship amount. The detailed data of these scholarships are as under: -

## SCHOLARSHIP REPORT FOR THE YEAR 2022-2023

Scholarship Recipients for the YEAR 2022-23				
S. No.	SCHOLARSHIP TYPE	No. of Students	Amount per Applicant	Total Amount
1	MERIT-CUM-MEANS SCHOLARSHIP FOR PROFESSIONAL AND TECHNICAL COURSES CS	52	Rs 25,000.00	Rs 13,00,000.00
2	POST MATRIC SCHOLARSHIP SCHEMES MINORITIES CS	4	Rs 6,000.00	Rs 24,000.00
3	POST MATRIC SCHOLARSHIP TO ST STUDENTS JAMMU AND KASHMIR	01	Rs 30,000.00	Rs 30,000.00
4	CENTRALLY SPONSORED SCHEME OF POST MATRIC SCHOLARSHIP FOR ST STUDENTS-LADAKH	10	Rs 65, 000.00	Rs 6,50,000.00
5	AICTE – PRAGATI SCHOLARSHIP SCHEME FOR GIRL STUDENTS (TECHNICAL DEGREE)	104	Rs 50,000.00	Rs 52,00,000.00
6	AICTE – SWANATH SCHOLARSHIP SCHEME (TECHNICAL DEGREE)	01	Rs 50,000.00	Rs 50,000.00
7	SIEMENS SCHOLARSHIP SCHEME	02	Rs 62,000.00	Rs 1,24,000.00
8	LABOUR & EMPLOYMENT SCHOLARSHIP	05		Rs 1, 40,000.00
<b>TOTAL</b>		<b>179</b>		<b>Rs 75,18,000.00</b>
<b>RS. SEVENTY FIVE LACS AND EIGHTEEN THOUSAND ONLY</b>				





Further, the scholarship of Fresh applicants verified under the scheme MERIT-CUM-MEANS SCHOLARSHIP FOR PROFESSIONAL AND TECHNICAL COURSES CS and POST MATRIC SCHOLARSHIP SCHEMES MINORITIES CS the year 2023-24 are under process at the Ministry Level.

**FOR THE YEAR 2023-2024, this office is in process of verifying Fresh/ renewal applications for following scholarship schemes:**

<b>Scholarship Type</b>	
<i>MERIT-CUM-MEANS SCHOLARSHIP FOR PROFESSIONAL AND TECHNICAL COURSES CS</i>	<i>AICTE – PRAGATI SCHOLARSHIP SCHEME FOR GIRL STUDENTS (TECHNICAL DEGREE)</i>
<i>POST MATRIC SCHOLARSHIP SCHEMES MINORITIES CS</i>	<i>AICTE – SWANATH SCHOLARSHIP SCHEME (TECHNICAL DEGREE)</i>
<i>POST MATRIC SCHOLARSHIP TO ST STUDENTS JAMMU AND KASHMIR</i>	<i>SIEMENS SCHOLARSHIP SCHEME</i>
<i>POST-MATRIC SCHOLARSHIP FOR STUDENTS WITH DISABILITIES</i>	<i>LABOUR &amp; EMPLOYMENT SCHOLARSHIP</i>
<i>CENTRALLY SPONSORED SCHEME OF POST MATRIC SCHOLARSHIP FOR ST STUDENTS-LADAKH</i>	<i>NATIONAL SCHOLARSHIP FOR POST GRADUATE STUDIES</i>

It is worth to mention that the two nursing colleges namely Syed Mantaqi Memorial College of Nursing & Medical Technology, Awantipora and Alamdar Memorial college of Nursing and Medical Technology, Charar-e-sharief besides, Govt., Polytechnic College, IUST, Pulwama have also been incorporated on the web portal of the Ministry of Minority Affairs which has benefitted the students belonging to the meritorious and financially weaker sections of the aforesaid colleges.



## RUMI LIBRARY

University library of the Islamic University of Science and Technology (IUST) inceptioned its operations in 2005 at the Academic Block of the university with the procurement of classical titles like "Black's law dictionary" and "The constitution of J&K". However, it was shifted to the Skill and Enhancement Training (SET) building in 2010 to cater to the growing information needs of the ever-expanding user base. The Executive Council of the university in its 10th meeting held on June 2020 named the library as "RUMI Library". The library in its efforts to quench the intellectual thirst of the diverse groups of learners has procured a total of 48668 volumes of books including 2059 books received as gratis. The Library has subscription to 469 e-books with perpetual access. The Rumi library has subscription to 75 Print journals/magazines and provides access to 13288 journals through various consortiums for knowledge updation and research trend identification across the globe.

The membership is growing each year and at present it has 3200 members which includes student, research scholar, teaching faculty and other staff. The library usage statistics shows promising upward trend and to promote services and resources, user awareness programs are being continuously organized.

The library in its effort to keep pace with the digital technology is marching on the digital path by embracing barcode technology, using SOUL 2.0 for library operations and making Online Public Access Catalogue available on Web (Web-OPAC). Being the member of the INFLIBNET, DELNET and other consortiums, a vast number of online resources are made available 24X7 at the fingertips of the users via. "Remote Access" facility. The facility covers online journals, online books and academic databases from reputed publishers like Taylor and Francis, Springer, Sage, Wiley, McGraw Hill etc.

In order to support needy and meritorious students as a part of social responsibility, the library introduced "Book Bank" facility in the year 2017 which has a separate collection of 763 titles. Furthermore, to assist job seekers desperately seeking the resources for the preparation of various competitive examinations and brush up their skills, the library maintains "Career Corner" with 638 books. In addition, Rumi Library subscribes to 14 nationals as well as local newspapers to keep the users abreast of nascent affairs around the globe.

To overcome the space constraints and further expand the knowledge footprints, the library has shifted to the newly constructed state-of-the-art library building from the SET building. Besides housing the different library sections, the library building would be fully automated fitted with Radio Frequency Identification (RFID) technology providing self-check in/out, book drop, antitheft detection system etc.

We have started a much needed Institutional Repository (IR) service namely "GASH" for the students, scholars and faculty members of the University. The institutional repository shall contain the works for which the copyright is owned by author(s) or Institute. However, various publications of the University, rare books and manuscripts available in the Rumi Library shall also form an indispensable part of the IR.

We are highly committed to march ahead on the road map envisioned by the Hon'ble Vice-chancellor, Deans and officers of the University and other members of the library committee. With the active support and futuristic vision of the Hon'ble Vice-chancellor, we are highly optimistic that the library shall emerge as a model intellectual creative space abound with resources and ideas to satisfy the information needs of users.



## INFORMATION RESOURCES

### Print resources

S. No.	Collection Type	Quantity
1.	Books	47000+
2.	CD's DVD's	500+
3.	Journals	75
4.	Back file	750
5.	Magazines	20

### Online resources

#### List of E- Resources Assemble through eShodh Sindhu (ESS) Consortium

The library offers online access to more than 13288 journals from reputed publishers like American Chemical Society, Springer and Taylor and Francis through eShodh Sindhu (ESS) Consortium

Resources
American Chemical Society
Economic & Political Weekly
Institute for Studies in Industrial Development (ISID) Database
JGate Plus (JCCC)
JSTOR
Springer Link 1700 Collection and Nature
Taylor and Francis

### List of E- Books

Sage -evidya (200 eBooks)
Cambridge Core (14 eBooks)
Bentham Science Publishers (22 eBooks)
McGraw Hill Education India (85 eBooks)
Taylor & Francis (71 eBooks)
Edward Elgar Online (72 eBooks)





*New Age International Publisher (30 eBooks)*

## SERVICES

### Membership

It is mandatory for every student of the university to be member of the library. They can apply for the membership by downloading the library membership form from student login tab, available at university website by depositing the minimal charge of Rs. 50/- at any branch of J&K Bank. Whereas, teaching faculty (contractual) can avail membership by depositing an amount of Rs. 1000/- (refundable). The external members can avail the membership by filling a form, duly endorsed by a gazetted officer and after deposit of Rs.2000/= as refundable security deposit.

### Book loan service

The library offers book loan service to students, research scholars, faculty members and administrative staff of the University.

Category	No. of Books	Period
<i>Officers of the University</i>	<i>03</i>	<i>15 days</i>
<i>Teaching faculty</i>	<i>04</i>	<i>30 days</i>
<i>Research scholars</i>	<i>04</i>	<i>20 days</i>
<i>Students</i>	<i>03</i>	<i>15 days</i>
<i>Polytechnic students</i>	<i>06</i>	<i>06 months</i>
<i>Non-teaching Staff</i>	<i>02</i>	<i>15 days</i>
<i>External member</i>	<i>03</i>	<i>15 days</i>

### Interlibrary loan service

Despite the richness of the collection of any library, users still need information resources that remain unavailable in their parent institutions. To overcome such limitation, libraries tend to be collaborative and share their resources and expertise. IUST library is also a part of such initiatives. IUST has institutional membership of Developing Library Network (DELNET) for book-related demands, and for research articles it relies on the facilities of JCCC@eShodh Sindhu.

### Internet browsing service.

The Library has established two browsing centres for the faculty/scholars and students with 30 and 50 computer terminals having high-speed broadband internet connectivity and wi-fi internet facility. It is open to all the registered users of the library during library hours.

### Learning resource Centre

The library has learning resource Centre dedicated for partially and fully blind persons with all state of art equipments.

### Build your career.



The Career Corner in the reference area offers a vibrant collection of materials for competitive examinations. The Corner is rich in collection covering almost all the subjects to help students appearing in Indian Administrative Service (IAS), Kashmir Administrative Service (KAS), National Eligibility Test (NET), General Aptitude Test (GAT), Management Aptitude Test (MAT), AIEEE, etc.

### **WebOPAC**

Users can access the library catalogue from anywhere and at any-time provided they have access to internet. In addition to search for resources available in the library, registered library users can access their library account to know about loaned resources, their respective due date, access entitlements, and location of a particular book in the library, etc.

### **Reprographic, Print and Scanning (RPS) Service**

The library offers Reprographic, Print and Scanning (RPS) facilities of its resources to its clientele on nominal charges within the Intellectual Property Right (IPR) provisions.

### **Ask a Librarian service**

This service encompasses a broad spectrum of information needs, such as finding quick answers to questions, assistance in the use of WebOpac and availability of online information resources and locating materials and information on specialized topics available within and outside the library. The main library's Information Desk serves as a central information and reference point for the library system to facilitate, promote and ensure maximum use of library resources.

### **Connecting with patrons**

To foster effective communication between the staff and patrons, the library offers myriad opportunities to foster better understanding of user related operations and services by organizing instructional lectures, power point presentations and guided tours to the library. Its mission is to help patrons know the library and educate them in digital and online resources and services. At the beginning of each academic session, the library offers induction/orientation program to the new users in order to familiarize them about various sections and services offered by the library.

### **Off campus access facility to electronic resources (<http://iustlibrary.remotexs.in>)**

In order to provide better services to its users, library has started providing off-campus access facility to the huge electronic resources. Registered users can access electronic resources subscribed to by the University from anywhere and at any time (24\*7) via RemoteXs.

### **Book Bank**

Book Bank facility hosts textbook collection pertaining to the courses offered by the University. The facility is available to students from financially weak background, meritorious students, specially abled students, and others. At present, the library holds more than seven hundred books in the Book Bank section.

### **Barcode enabled circulation Service.**

For hassle free and speedy issue and return of documents, the library uses barcode technology. This facility saves lot of time of library users in borrowing the books from the library.

### **Current Literature Bulletin (CLB).**

Current Literature Bulletin (CLB) service is a current awareness service (CAS) provided by the university library. It is an information service which aims at keeping teachers, scholars and students up-to-date with the latest published literature and sources like news, articles, journals, books and websites, and other developments in their respective fields. CAS ameliorates the progress of researchers by making nascent information available to them at the right time in an appropriate form. It prevents the users from scanning the literature individually on their own, and thus avoids the replication of efforts. It is one of the effective approaches that highlight the information resources of the library by getting these resources into the user's notice. The library provides following services under CAS programme.

**Table of Contents (ToCs) alert:** It is an alerting service that aims at notifying the academics regarding new issues of physical journals subscribed by the library on a periodic basis.

**New library book alert:** It alerts users of the library regarding new books procured by the library to keep them aware about the latest additions. Further, information about new editions of books are furnished to the bonafide users of the library from time to time.

**Clippings service:** Clippings of newspapers, magazines and pamphlets are displayed on display boards in the library.

### INSTITUTIONAL MEMBERSHIP OF LEARNED BODIES

The library has the institutional membership with different national-level organizations to offer effective services to its users.

#### a) eShodh Sindhu Consortium (ESS)

It is a consortium of higher education institutions affiliated with the University Grants Commission and is funded by the MHRD which on behalf of member institutions subscribe to full-text and bibliographic scholarly databases. It also offers journal-article level document delivery service called JCCC@eShodhSindhu.

#### b) DELNET, New Delhi.

Established in 1988, Developing Library Network (DELNET) promotes the sharing of resources amongst the member libraries and also facilitates the delivery of documents manually and mechanically. If any member library is in need of a book that is available in the collection of other member libraries within & outside the country, the DELNET facilitates interlibrary document loan services.

#### c) ShodhGanga

ShodhGanga - National level initiative of Information Library Network (INFLIBNET), Ahmedabad offers centralized online theses hosting facility to higher education institutions of India, to which IUST library is a part.

#### d) Current Science

IUST is permanent member of Current Science Association which was started in 1932 by the then stalwarts of Indian science such as CV Raman, Birbal Sahni, MeghnadSaha, Martin Foster and S.S. Bhatnagar. The association publishes every fortnightly Current Science an interdisciplinary science journal in collaboration with the Indian Academy of Sciences, which is freely available to the library.

### MOU

Rumi Library has signed the MOU with Allama Iqbal Library, University of Kashmir, Srinagar. Under this MOU, our members can access the collection of Allama Iqbal Library, which has richest collection of books in Jammu and Kashmir.





## LIBRARY TIMING

<b>Working Days</b>	<b>09:15 am – 5:00 pm</b>
<b>Saturday/Sunday</b>	<b>11:00 am – 3:00 pm</b>

## PROJECTS IN PIPELINE

- ❖ *RFID system enabled Library Services*
- ❖ *CCTV Library Surveillance*
- ❖ *Installation of Elevators*
- ❖ *Mobile Based Library Services*
- ❖ *Automated Library Sorters*
- ❖ *24x7 library open*
- ❖ *Creation of special corners for manuscripts/ rare books*

## LIBRARY RULES

- ❖ The Library being a place for individual study and research, members are requested to maintain an atmosphere of dignity, peace, and silence within the Library premises.
- ❖ Members are requested to handle the Library reading materials with utmost care. Mutilation, writing, scribbling, marking, cutting pages will be severely dealt with.
- ❖ Use of personal stereos, music sets and mobile phones in the library is not permitted.
- ❖ The audible use of mobile phones is not permitted in the library premises.
- ❖ Smoking, food, and drinks are not allowed in the library.
- ❖ Users are requested to bring their ID card issued by the Institute while coming to the Library. The ID card is a must for borrowing Library materials and is not transferable.
- ❖ Entry to the Library is restricted to the Bonafide members only.
- ❖ All members are requested to keep their personal belongings at the Property counter at their own risks. Library is not responsible for loss or damage.
- ❖ The borrowers are requested to check the books & other reading materials thoroughly for missing pages, chapters, any damages, markings etc. before borrowing.
- ❖ No books in damaged conditions will be accepted from the borrowers. Mutilated or spoiled books may have to be replaced by the borrower.
- ❖ The borrowing facility can be restricted or suspended in case of misbehavior or misuse of the library facilities/materials.
- ❖ Members are held responsible for all items issued on their name, until they are returned by the respective members to the Library.
- ❖ Faculty and staff going on long leave, with or without salary, deputation, study leave, or extraordinary leave will have to return all the borrowed materials before leaving the institute.
- ❖ No material from the library should be taken out without proper issuing/ recording. Any type of violation may lead to a disciplinary action.

## VIII. Students' participation

- We always look forward to students' suggestions. We believe their engagement and input is critical to the achievement of our mission. We entertain requests from students and research scholars for acquisition of materials and improvement of services.





# DIRECTORATE OF PHYSICAL EDUCATION & SPORTS

## MISSION

To develop a quality Physical Education Programme that emphasizes enjoyable participation in Physical Activities; to help students to develop the knowledge, attitude, motor skills, social skills and confidence needed to begin and maintain a healthy physically active lifestyle for the rest of the life.

## VISION

The Directorate of Physical Education & Sports will provide a comprehensive physical education programme that is dedicated to creating an environment that allows students to understand and to display cooperative social skills, teamwork, peer interaction, leadership, sportsmanship, positive attitude, self-esteem, and enjoyment. The curriculum will create an environment that focuses on current information, technology, and equipment to meet the needs of individual students.

## INTRODUCTION

The Directorate of Physical Education & Sports is established in 2009 with an avowed objective of promoting sports culture among the youth for all-round development of the personality. The sports events being organized under the auspices of Directorate at a State and National level will go a long way in promoting cultural integration amongst the people belonging to different geographical settings and socio-economic background besides helping Sports Tourism in Kashmir. Blessed with temperate and salubrious climate, lush green forests, plenty of water bodies, snow-clawed terraces underneath of Mountains of Wastoorwan etc., will always prove conducive for the promotion of sports activities in the valley and indeed help youth to grow physically and mentally.

The Directorate has participated in scores of Inter-University Tournaments in various sports at Zonal and National Level. The Directorate is regularly conducting various inter-departmental tournaments. Besides regular sports, the Directorate has setup an adventure Sports-unit which undertakes sports like Snow Skiing, Mountaineering, white Water Sports, and trekking etc. Coaching and Training Camps are conducted regularly for the students pursuing different academics courses at College and University level.

The University has International standard Athletic Track situated in the bottom of Wastoorwan Mountains the University has number of Cricket, Hockey, Football, Volleyball, Handball, Baseball, and Basketball courts/fields within the main campus. The Health Club/Gym has been set up with latest and sophisticated machinery pertaining to Cardio and weight-training to the students and employees of the University.

## FACILITIES

Synthetic Athletic Track/ Gym (Health Club)/ TT Hall (Boys & Girls)/ Basketball Court/ Football Ground/ Badminton Court/ Volleyball Court/ Yoga Centre

## ACTIVITIES



Snow Skiing Course/ Trekking and Camping/ Inter-University Tournaments/ Inter-State Tournaments/ Inter-departmental Tournaments (Boys/Girls)

### ACHIEVEMENTS

S. No.	Sports	Level	Position
1.	National Thang ta Martial Art Championship held at Jammu	National	Won 2 gold medals
2.	Pencak Silat (Men) Indoor Tournament held at GNDU Amritsar, Punjab from 19-03-2019 to 22-03-2019	National	Secured Third Position (Bronze)
3.	Senior Rugby National Championship held at Bhubaneshwar	National	Participation
4.	B-Division League football Tournament organized by J&K football Association DFA Srinagar	Inter-District Club Level	Winner
5.	1st Syed Mantqui Basketball tournament	University level tournament	Winner

### ALPINE CLUB

The University has established Alpine Club for promoting mountain recreation, adventure sports, trekking and environments consciousness among the students, faculty/staff. The Club intends to organise various activities in and outside the University involving members of the club.





# DISCIPLINE

## MISSION OF PROCTOR OFFICE

The mission of the proctor office is to provide a comprehensive academic atmosphere in the University campus and hostels and the security of university establishments. The objective of the proctor office is to enforce discipline and controlling the student activity. Every student enrolled in the university should maintain strict discipline and decorum governed by the university by giving due regards to the rights of other students. Any student may be subject to disciplinary actions if his/her action on campus or hostels are disruptive or are in violation of university rules and regulations.

## ACHIEVEMENTS

- ❖ The whole campus and hostels have been brought under CCTV surveillance to monitor all the activities to prevent any untoward incident.
- ❖ Induction programmes were conducted by the proctor office to sensitize the students about discipline, gender equality, communal harmony etc.
- ❖ An Anti-Ragging Squad has been constituted by the Chief Proctor of which the Proctor Office is actively involved by always being proactive to reach out to fresher's and makes them completely feel safe in the university campus, hostels and cafeterias.
- ❖ The senior students are educated and cautioned by the Anti-Ragging Squad not to indulge in any sort of ragging as per the UGC guidelines.
- ❖ Anti-Ragging sign boards have been installed by the proctor office at prominent places in the University campus and hostels along with contact numbers of the concerned people.
- ❖ Student Proctorial team has also been framed to strengthen the office for addressing the complaints well in time. They report to the Proctor Office in case of any incident of unlawful activity or menace of drugs in the campus and hostels.
- ❖ In order to strengthen the Proctorial Office four more proctors have been incorporated who will take care of the indiscipline cases pertaining to the Hostels, buses, canteens etc. A female proctor has been specifically included in the team of proctors to address the problems of female students. In case of any indiscipline activity a due course of action shall be followed vis-a-viz cases of indiscipline following proper guidelines and rules.
- ❖ Further, a Proctorial team has been constituted who will make a regular inspections and visits around the University campus daily basis for which a comprehensive roaster prepared by the Proctor Office.
- ❖ There has been no case of ragging reported so far in the University.
- ❖ 47 cases of grievances were reported to the Proctorial office from 2015 to 2021 which were addressed, and action was taken as per University rules.
- ❖ Five (05) grievances of sexual harassment were reported to the proctor office from 2015 to 2021 and were addressed as per university rules.



## **CONDUCT ON CAMPUS**

Students are expected to maintain discipline and conduct themselves in a respectable manner within and outside the University. Students are expected to treat their classmates and other members of the University with respect. Students are expected to take care of university property and not damage it in any way. Any act that disturbs the atmosphere on campus in any manner will be taken as an act of misconduct / misbehavior and dealt with seriously. Besides having a Proctorial wing, the University has constituted a Central Disciplinary Committee to ensure discipline in the Campus. Every student is required to carry with him / her Identity card issued by the University while attending the Campus. In case of loss of Identity card, the student should immediately report to the Dean of Students and apply for the duplicate Identity card by submitting the required documents.

## **NO RAGGING ON CAMPUS AND HOSTELS**

Ragging or any such activity is strictly prohibited inside and outside the University. Any student involved in the act shall be immediately suspended and an FIR lodged against him/her. Such students will also be expelled from the University in a way that he/she shall not be able to get admission in any other educational institution within the country. The University has anti-ragging squads to ensure a ragging free campus.



# EXAMINATIONS

The Islamic University of Science and Technology in pursuance to the UGC initiatives on reforms in academics has adopted Semester based Choice Based Credit System. It is a cafeteria type approach in which students can take courses of their choice, learn at their own pace, undergo additional courses and adopt an interdisciplinary approach to learning. The CGPA system relies on continuous assessment of students rather than to study at examination time only. The main objective is to expose the students to continuous evaluation throughout the semester which include assignments, presentations, quizzes etc and one midterm test rather than to evaluate the students on the basis of term-end examinations. This system aims at inculcating a habit in the students to study continuously instead undergoing a heavy work load at end of the semester. The system involves rigorous and continuous learning instead in a sporadic manner.

The semester end-examinations are conducted twice every year i.e Autumn Semester in the month of December and Spring Semester in the month of July. In all semester examinations, 50% marks are reserved for internal assessments. The internal assessment involves one midterm test along with assignments, projects, presentations, quizzes and surprise tests etc. or any other similar activity for which a comprehensive written record is maintained by the teachers, endorsed/ attested by the Head of the Department concerned. Those students who fail in the internal assessment (all components taken together) shall not be eligible to appear in the semester end examination.

## ATTENDANCE REQUIREMENT

All students shall normally attend every lecture / Practical class but in no case less than 75% of total classes. However, on account of late joining / sickness or such other exigencies, the shortage in attendance may be condoned upto a maximum of 10% under University rules. Students who fail to achieve the mandatory 75% attendance in any course/s shall have to re-register the course/s afresh with new batch as per rules.

## ADVISORY SYSTEM

The advisory system is an essential feature of Academics at IUST. The process involves a close relationship between the teacher, designated as Advisor by way of his/her experience & expertise and a student. The advisor has not only to guide the student about his/her academic performance and facilitate his / her smooth onward movement but also to keep a record wherein besides the progress report of the student all the details related to academic and personal life of the student should be recorded. The Advisor also has to be in touch with the guardians of the student if warranted so.





# IMPORTANT CONTACT DETAILS

Offices/ Departments/ Centres/ Colleges	Phone / Extension	Email ID
Reception	01933-247954 / 247955/ 247247	<a href="mailto:info@islamicuniversity.edu.in">info@islamicuniversity.edu.in</a>
Vice Chancellor	01933-247265 / 247248, Fax: 01933-247248 Ext. 2019, 2021	<a href="mailto:vc@islamicuniversity.edu.in">vc@islamicuniversity.edu.in</a>
Registrar	01933-247249 / Fax: 01933-247316 Ext. 2020, 2031	<a href="mailto:registrar@islamicuniversity.edu.in">registrar@islamicuniversity.edu.in</a>
Finance Officer	01933-247250 Ext. No. 2016, 2075	<a href="mailto:sameer.wazir@islamicuniversity.edu.in">sameer.wazir@islamicuniversity.edu.in</a>
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Dean Research	Ext. No. ....2059	<a href="mailto:research@iust.ac.in">research@iust.ac.in</a>
Dean School of Business Studies	Ext. No.	<a href="mailto:Asif.fazili@islamicuniversity.edu.in">Asif.fazili@islamicuniversity.edu.in</a>
Dean School of Humanities & Social Sciences	Ext. No. ....	<a href="mailto:munejahk@gmail.com">munejahk@gmail.com</a> <a href="mailto:munejah.k@islamicuniversity.edu.in">munejah.k@islamicuniversity.edu.in</a>
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Transport	Ext. No. ....2025	
J&K BANK	Ext. No. ....2076	
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