

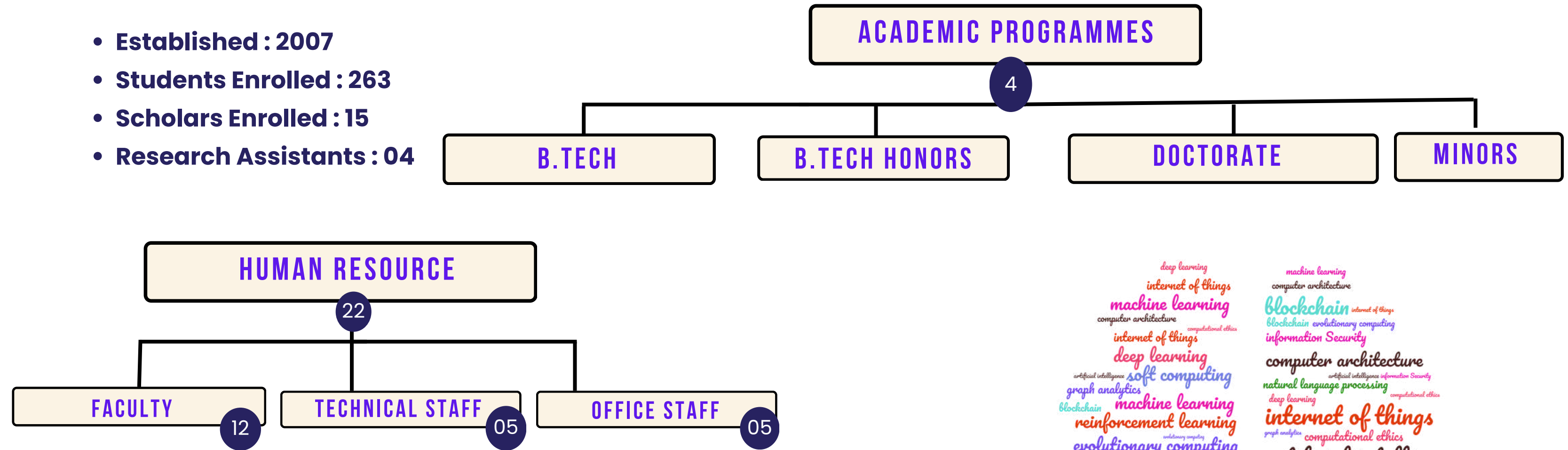


DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ISLAMIC UNIVERSITY OF SCIENCE AND TECHNOLOGY, KASHMIR



DEPARTMENT

- Established : 2007
- Students Enrolled : 263
- Scholars Enrolled : 15
- Research Assistants : 04



THRUST AREAS



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

- 1 To provide excellent engineering education in a state-of-the-art environment
- 2 To prepare students to become computer professionals not only for the industry, but government and academia as well
- 3 To attain self-sustainability and overall development through research, consultancy and development activities
- 4 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
- 5 To encourage students to become self-motivated, problem-solving individuals who can find and understand the knowledge needed to be successful in the profession.
- 6 To provide intellectual inputs to state and national industries in the form of qualified and trained manpower.



STRENGTHS

Faculty with diversified areas of specialization

State-of -the-art High Performance Computing Facilities

Adequate Library & e-resources

Robust in-house ERP

Timely Grievance Redressal Mechanism



FACULTY



Dr. Assif Assad
Ph.D (IIT Roorkee)
Machine Learning, Deep Learning



Dr. Sajaad Ahmed Lone (HEAD)
Ph.D (NIT Srinagar)
N/W Security, Image Processing



Dr. Asif Ali Banka
Ph.D (NIT Srinagar)
Graph Analytics, Info. Diffusion



Mr. Syed Mujtiba Hussain
Ph.D Pursuing (NIT Srinagar)
Internet of Things



Dr. Syed Zubair Ahmad Shah
Ph.D (Jamia Millia Islamia)
Data Mining, Data Analytics



Dr. Adil Bashir
Ph.D (NIT Srinagar)
Internet of Things, Cyber Security



Dr. Sahil Sholla
Ph.D (NIT Srinagar)
Computational Ethics, IoT



Dr. Ahsan Hussain
Ph.D (NIT Goa)
Data Science, Soft Computing



Dr. Riaz Ahmed Khan
Ph.D (NIT Srinagar)
Computer N/Ws, Info. Security



Dr. Ab Rouf Khan
Ph.D (NIT Srinagar)
Fog Computing, IoT



Dr. Hushmat Amin Kar
Ph.D (NIT Srinagar)
Internet of Things



Dr. Syed Abdul Basit Andrabi
Ph.D (MANUU, Hyderabad)
Data Science

CURRICULAR ASPECTS



PROGRAM OBJECTIVES

1

To produce globally competent engineers with innovative and problem solving skills for addressing emerging technological challenges

2

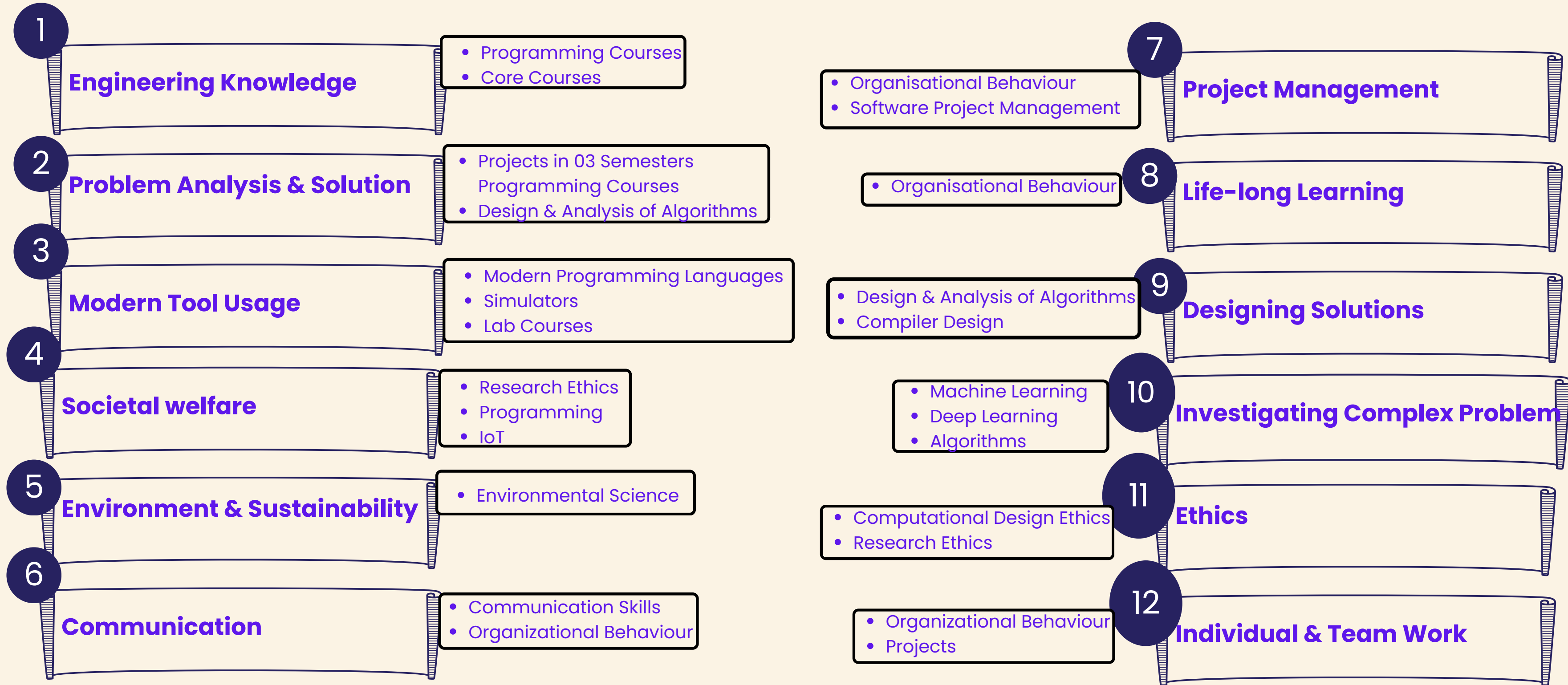
To produce competent workforce for industry & research involving innovation, engineering and entrepreneurship

3

To inculcate ethical values among students for overall development of society



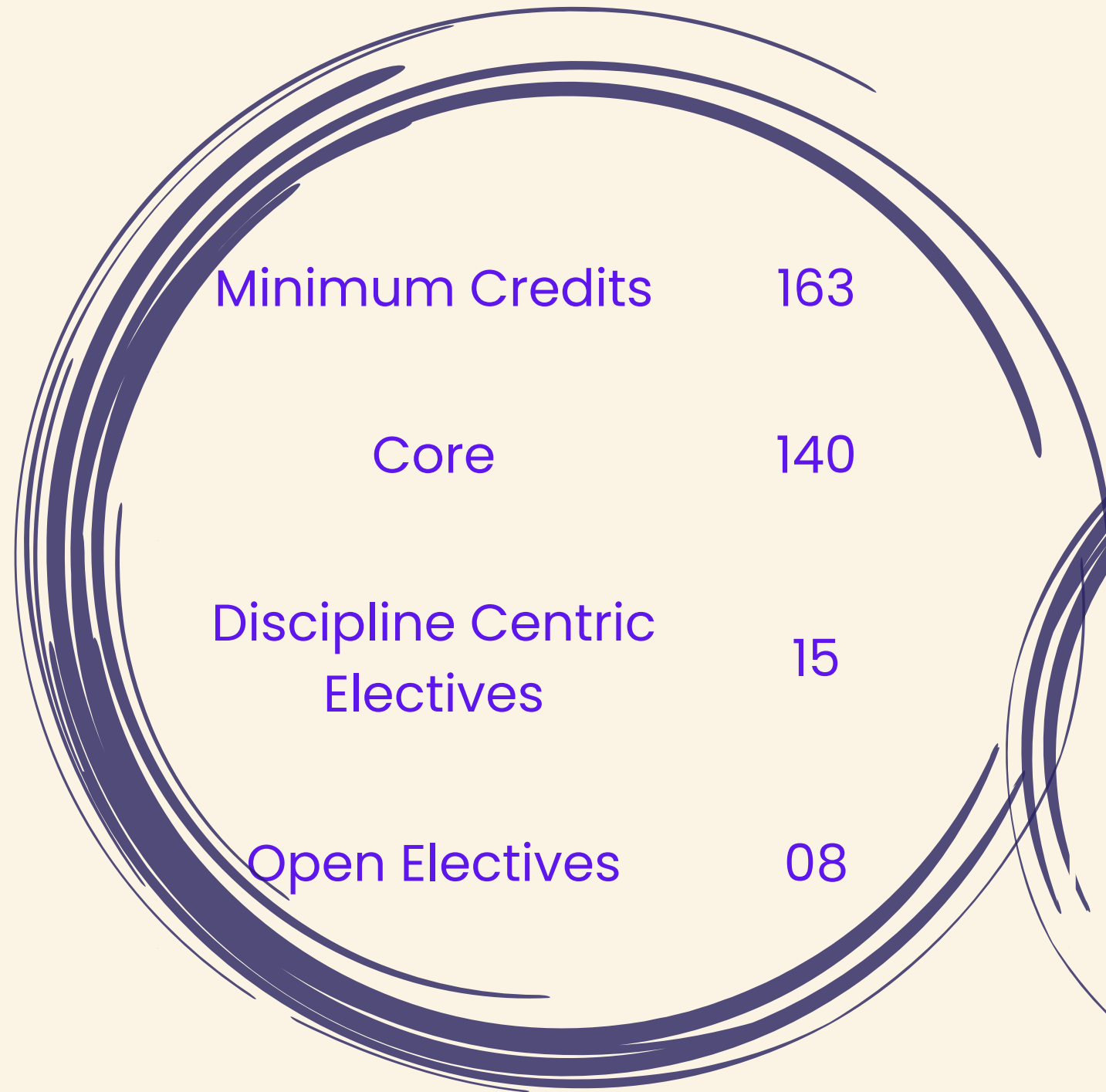
PROGRAMME OUTCOMES





CREDIT DISTRIBUTION

B.Tech



B.Tech(Honors)





SALIENT FEATURES OF CURRICULUM

Industry Driven

Diverse Discipline Centric and Open Electives

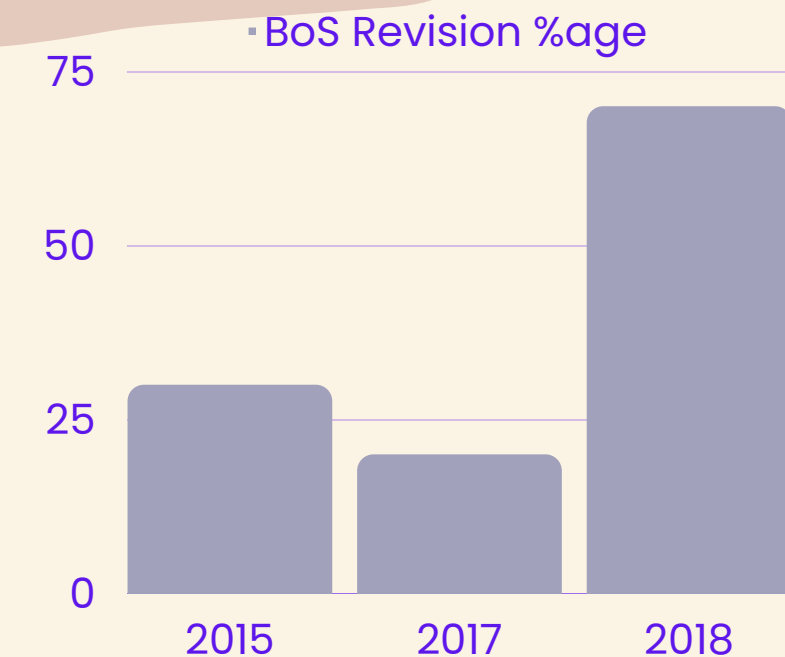
60% courses focusing on employability / entrepreneurship / skill development

Courses on Disruptive Technologies

Designed and modelled based on the feedback of faculty, industry experts, alumni & students

Courses on environment, sustainability, human values & professional ethics

- Environmental Science
- Computational Design of Ethics
- Advanced Computational Design of Ethics
- Research and Publication Ethics





TEACHING - LEARNING & EVALUATION

ICT INTERVENTIONS

Complete track of attendance, lecture plan, lecture delivery, syllabus coverage & results on ERP.

24 x 7 access to e-resources (494 e-books)

ICT for effective teaching

ICT enabled: Labs 100% , Classrooms 75%

The image displays two screenshots. The left screenshot shows a Google Classroom interface with several course cards: 'Backlog / re-registered...', 'CSE Batch 2019' (137 students), 'PhD 2019 common courses' (23 students), 'CSE 2017 Batch' (88 students), and 'CSE 2018 Batch'. The right screenshot shows a YouTube channel for 'Dr. Zubair Ahmad Shah' with 229 subscribers and 55 videos. Below the channel name, there are video uploads including 'Instruction Formats and Addressing Modes' (392 views) and 'Files (Part-II)' (105 views). At the bottom, a table lists members of a Google Classroom group.

Member	Email	Role	Join date	Subscription	Posting
uzair_@gmail.com	uzairuz26@gmail.com	Member	31 Jan 2022	Each emz	Allowed
samoonme_@gm...	samoonmehboob789@gmail.com	Member	31 Jan 2022	Each emz	Allowed
sarvarhu_@gmail...	sarvarhussain949@gmail.com	Member	31 Jan 2022	Each emz	Allowed
malika_@gmail.c...	malikarooj459@gmail.com	Member	2 Feb 2022	Each emz	Allowed
suzai_@gmail.com	suzain900@gmail.com	Member	31 Jan 2022	Each emz	Allowed
anju_@gmail.com	anjumrya@gmail.com	Member			
farooqr_@gmail.c...	farooqrkhbaiz@gmail.com	Member			

Use of WISE app to conduct online classes during pandemic



ENHANCED LEARNING

Participative Learning
Projects & Seminars

Problem Solving Methodologies
Programming Assignment, Live Projects



Experiential Learning
Internships & Industrial Visits
(IIT ROPAR, BOMBAY, NIELET, DUCAT)



DEPARTMENTAL INITIATIVES

SLOW LEARNERS

Mentor-Mentee Meets

Parent - Teacher Meets

Programming Day

Distribution of e- material

Remedial Sessions

ADVANCED LEARNERS

B.Tech Honors Degree through MOOCs

Seed Funding for Start-ups from CIED

Funding for innovation from DIC, IUST

Internships from IITs

More than 60 courses
completed through MOOCs



RESEARCH, INNOVATION & EXTENSION

RESEARCH PROJECTS AND GRANTS

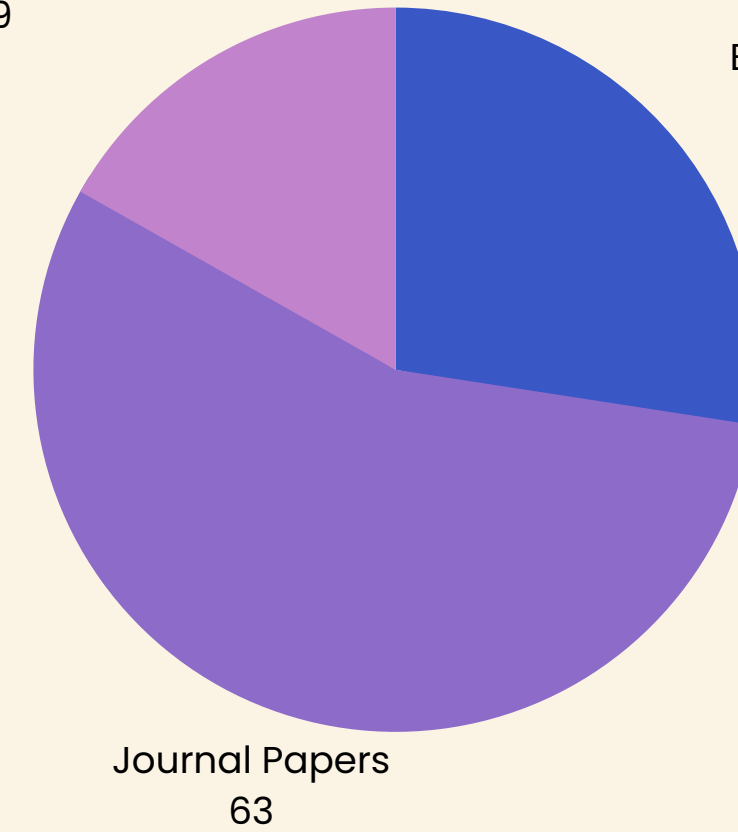
Total Grant	16.80 Crores
Completed	09
Ongoing	06
Research Scholars	15
Research Assistants	04

Total Publications **113**

Patents filed **06**

Department mentors
degree colleges **03**

Conference Papers
19



Book Chapters
31



PATENTS FILED

S.No	Innovator	File No.	Title
1	Dr. Sahil Sholla	201811047804	Ethics Switching Towards Exception Handling in Ethics of Operation (EOP)
2	Dr. Sahil Sholla	201811025275	Toward Friendly Machines: A Boolean Algebra Based Method Implementing Ethics based on Context
3	Dr. Syed Zubair Ahmad Shah	202211063914	Prayer Time Indicator based on Internet of Things
4	Mr. Syed Mujtiba	202111055682	Apple Disease Detection using Deep Learning Algorithms
5	Dr. Assif Assad	202211016238	A System for detection of Disease in plants and Analysing Treatment Process hereof
6	Dr. Assif Assad	202211018901	System and Method for Detecting and Classifying Pashmina Shawl



WORKSHOPS AND FDPS ORGANIZED - 18



Soft Computing Research Society (SCRS)
in collaboration with
Islamic University of Science and Technology (IUST) Awantipora

Introduces a webinar on Deep Learning using Tensorflow

Invited Expert
Dr. Asif Asad (Ph.D. IIT Bombay)
Dr. Mohammed Khalid (Ph.D. IIT Bombay)
Dr. Rayees Ahmad (Ph.D. NIT Hamiram)
Dr. Mazfar Rasool (Ph.D. Kashmir University)

About the Topic
The Deep Learning Webinar Series focuses on the key ideas, algorithm development, and future direction of deep learning, including applications of deep learning in today's data science landscape. The webinar particularly focuses on conducting hands-on sessions using Tensorflow framework.

Deep Neural Networks (Deep Learning) seek to replicate the way brain process information. Imagine a progression of nodes (neurons) each encoding/digesting varying aspects of knowledge, and with the ability to communicate back and forth.

Deep learning represents the cutting edge of machine learning in the design of intelligent systems that learn from examples, improve themselves in recent years, several deep learning has enabled us to perform tasks that were previously believed to be limited to human capabilities of perception, recognition, and others.

Last date of registration: 30.06.2020 up to 5:00 pm. Contact: +91-7885589700 | asif@iust.ac.in, mohammed@iust.ac.in

Course fee: ₹ 800 for SCRS members and ₹ 1600 for others
For SCRS Membership visit: <https://www.scrs.in>

Deep Learning using tensorflow (July 01-06, 2020)

Join through Google Meet Organized By

Date and Time

1st July 2020, 04:00 PM-05:30 PM	Dr. Asif Asad	Title: Machine learning basics and introduction to deep learning
2nd July 2020, 04:00 PM-05:30 PM	Dr. Mohammed Khalid	Title: MLP neurons and perceptron (hands on)
3rd July 2020, 04:00 PM-05:30 PM	Dr. Rayees Ahmad	Title: Feed forward neural networks (hands on)
4th July 2020, 04:00 PM-05:30 PM	Dr. Mohammed Khalid	Title: Optimization algorithms in deep learning
5th July 2020, 04:00 PM-05:30 PM	Dr. Rayees Ahmad	Title: CNN architectures
6th July 2020, 04:00 PM-05:30 PM	Dr. Mazfar Rasool	Title: PCA Recurrence in Systems

Registration Link: <https://bit.ly/2ecocanms>

Certificate to all the participants

Islamic University of Science and Technology, J&K
In association with
Maulana Abul Kalam Azad University of Technology, West Bengal

Online Workshop / Faculty Development Programme
RECENT RESEARCH TRENDS IN INFORMATION TECHNOLOGY

INAUGURAL SPEAKERS

Prof. Mushaq A. Siddiqi
Hon. Vice-Chancellor, IUST, JK

Prof. Saikat Maitra
Hon. Vice-Chancellor, MAEUT, WB

SPEAKERS

Prof. Karam Deep
IIT Madras

Dr. Jagdish C. Bansal
South Asian University

Dr. Ahsan Hussain
Asst. Prof., Dept. of CSE, IIST
Programme Organizer

Page:05 Dated :16 to 22 February 2022

Year of Educational Information in J&K: Arun Kumar Mehta

Monday chaired a meeting to take stock of arrangements for reopening of educational institutions and resuming offline teaching in Jammu and Kashmir.

An official spokesman in a statement issued here said that the Chief Secretary said that COVID positivity rate in J&K had been contained to 0.7 percent and impressed upon the heads of all educational institutions to remain vigilant to any signs of infection especially among unvaccinated students below the age of 17 years, besides ensuring adherence to COVID Appropriate Behavior, SoPs and protocols, proper social distancing, hand hygiene provisions, and compliance to UGC guidelines in the matter.

Workshop on 'Research Methodology and Publication Ethics' concludes at IUST

Director of Diversity and Belonging, University of Pennsylvania, USA and Professor, Siam Chulabhorn University of South Florida, USA as foreign speakers.

The statement said that experts of national repute included Prof. Dhruv Rana from JNU, New Delhi, Sanjivu Phansiri, Senior Fellow at NCAER and the Deputy Director of the National Data Innovation Centre, New Delhi and Tausif Rizvi, Head, Department of Psychology, University of Kashmir.

Chairman FDP AsFAA banks shared that more than 200 participants from different universities and colleges of India had registered for the FDP.

REGISTRATION LINK
rb.gy/mz7vtp



MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY WEST BENGAL
in association with
Islamic University of Science & Technology (IUST), Jammu & Kashmir, India
Cordially invites you to join our ONLINE

5-Day Faculty Development Programme ON "Digital Forensic & Ethical Hacking"
Date - 16.09.2020 - 20.09.2020
Inauguration Date - 16.09.2020, Time - 10:00 AM

Program Committee:
 Prof. Dr. Shakil A Romshoo, Prof. Dr. Asif Ali Banka, Prof. Dr. Sahil Sholla, Prof. Dr. Adil Bashir, Prof. Dr. Touseef Rizvi, Prof. Dr. Rita Powell, Prof. Dr. Dhruv Raina, Prof. Dr. Santanu Parmanik

For TEQIP Institutes: Click here to Register
Link - <https://bit.ly/2Rd1.haM>

For NON-TEQIP Institutes: Click here to Register
Link - <https://bit.ly/2RIM0lg>

Last Date for Registration - 15.09.2020
Mail us - efsmakaw@gmail.com



Faculty Development Program on "Research Methodology + Publication Ethics"
Department of Computer Science and Engineering, Islamic University of Science and Technology, Awantipora

FEB 7-11, 2022
Last Date of Registration - Feb 05, 2022

CHIEF PATRON
Prof. Shakil A Romshoo
Hon'ble Vice Chancellor

PATRON
Prof. A H Moon
Dean SOE&T

COORDINATOR
Dr. Assif Assad
Head, CSE

CHAIRMAN
Dr. Asif Ali Banka
Assistant professor, CSE

CO-CHAIRMAN
Dr. Sahil Sholla
Assistant professor, CSE
Dr. Adil Bashir
Assistant professor, CSE

PROGRAM COMMITTEE

SPEAKERS
Prof. Sriram Chellappan
Sriram Chellappan is a Professor in The Department of Computer Science & Engineering at University of South Florida, where he directs the SCoRE (Social Computing Research) Lab.
Prof. Rita Powell
Rita Powell is Director of Diversity and Belonging at University of Pennsylvania recognized with Co-PIs Zachary Ives, Chris Murphy and National Center for Women and Information Technology's (NCWIT) 2020 award.
Prof. Dhruv Raina
Professor of History of Science Education at the Zakir Husain Centre for Educational Studies (ZHCES), Jawaharlal Nehru University. He is a philosopher and historian of science and has authored several books.
Dr. Santanu Parmanik
Santanu Parmanik is Senior Fellow at National Council of Applied Economic Research and the Deputy Director of the National Data Innovation Centre, India.
Prof. Touseef Rizvi
Touseef Rizvi is Head of the Department of



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

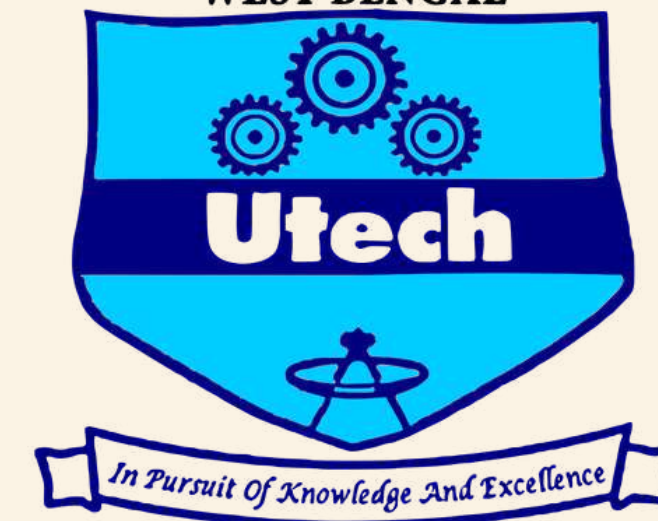


FUNCTIONAL MOUs & COLLABORATIONS

ACADEMIC & RESEARCH



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



COLD STORAGE UNIT

Malik Wajid Mushtaq
Batch 2011



app Tech

HIGH DENSITY APPLE ORCHARD AUTOMATION

Mr S A Lone
Assistant Professor, CSE

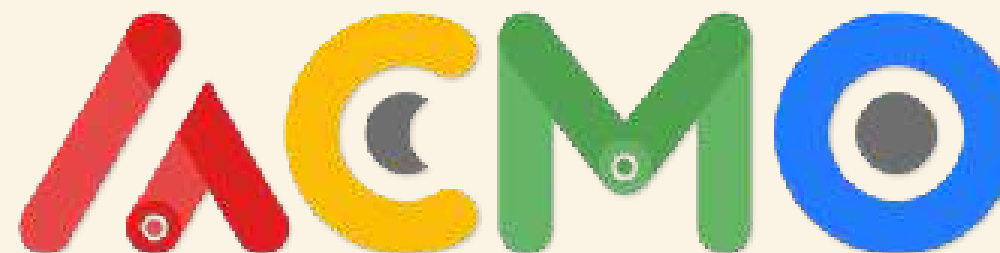
STARTUPS



ALP SAVY
WHERE ADVENTURE BEGINS

ADVENTURE SPORTS

Adil Shah & Rasikh Lawlakh
Batch 2017



SOFTWARE DEVELOPMENT COMPANY

Qazi Firdous & Dawood Wani
Batch 2010





EXTENSION ACTIVITIES



JEEVITAM - PATH TO LIVELIHOOD WEBINARS

Islamic University of Science and Technology, Awantipora, Jammu & Kashmir
in association with its Technology Partner Jeevitam
presents

SILVER JUBILEE WEBINAR - EMPOWERING THE YOUTH OF JAMMU & KASHMIR
BY CREATING LIVELIHOOD OPPORTUNITIES, DEVELOPING NEW AGE SKILLS &
SUSTAINABLE ENTREPRENEURSHIP

PARTICIPATIVE COLLEGE PLACEMENT DRIVE - WAY FORWARD
12TH FEBRUARY 2021 | 5:00PM - 6.00PM
 Har Student Hoga Atmanirbhar

Our Esteemed Panelists

 Rahul Johri Chairman Vector Finance Pvt Ltd, Chairman Bargach Finance Pvt Ltd		 Sachin Pabreja Co-Founder & Chief Innovation Officer EazyDiner		 Dr Assif Assad HOD of Computer Science & Engineering		 Mohd Adil Shah President of Student Council		 Sheikh Rasik Lawlakh Vice President of Student Council		 Shazia Shafi 3rd Year Food Technology		 Nadiya Rashid 2nd Year Engineering		 Rumana Javed 3rd Year Engineering		 Mahshida Hamid 4th Year Mechanical Engineering	
--	--	--	--	---	--	---	--	---	--	--	--	---	--	--	--	--	--

Students 4th Year
 Computer Science & Engineering
Courtesy: Student Council Committee, IUST
National Career Service GOVERNMENT PARTNER | reimaginecampusplacement | Moderators: Munish Chawla and KG Mohan | www.jeevitam.org



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



INFRASTRUCTURE & LEARNING RESOURCES

Auditorium

ICT enabled classrooms 03

Labs 05

Departmental Library

Software



H/W & N/W LAB



PROGRAMMING LAB



RESEARCH LAB



PROJECT LAB



APPOX. COST - 3.0 CRORE

HIGH PERFORMANCE COMPUTING LAB

COMPUTE NODE 03

CPU: 2 x Intel Xeon Gold 3.1G, 20Cores/40 Threads
RAM: 8 x 64 GB (512 GB)
Storage: 2 x 960 GB SSD SATA

INTERCONNECT

- Mellanox 100 Gb/s
- Ethernet 1 Gb/s
- Ethernet 1 Gb/s for management

HEAD NODE

CPU: 2 x Intel Xeon Gold 3.1G, 20 Cores/40 Threads
RAM: 16 x 64 GB (1 TB)
Storage: 2 x 960 GB SSD SATA
6 x 4 TB @7.2K RPM NLSAS

STORAGE NODE 02

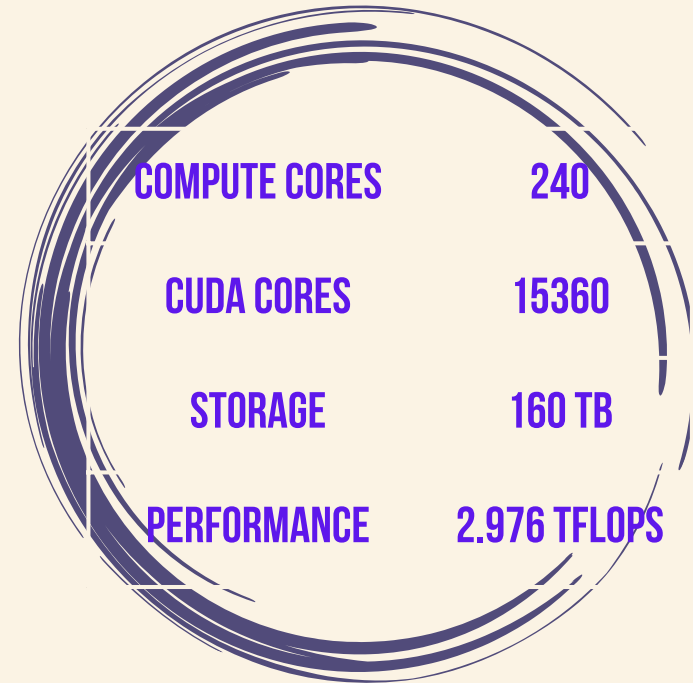
CPU: Intel Xeon Gold 3.1G, 20Cores/40 Threads
RAM: 4 x 32 GB (128 GB)
Storage: 2 x 480 GB SSD SATA
Cluster Storage:
60 x 40 TB HDD @ 7.2K SAS
3 x 1.8 TB HDD @ 10K SAS

GPU NODE 03

CPU: 2 x Intel Xeon Gold 3.1G, 20Cores/40 Threads
RAM: 8 x 64 GB (512 GB)
Storage: 2 x 960 GB SSD SATA
GPU: NVIDIA Tesla V100 32 GB

SOFTWARE

OS: CentOS
Scheduler: SLURM Job Scheduler
Cluster Management Software: SamooH
File System: PFS (Lustre)



HPC at a glance



INTEL INTELLIGENT SYSTEMS LAB/E-YANTRA EMBEDDED SYSTEM AND ROBOTICS LAB



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

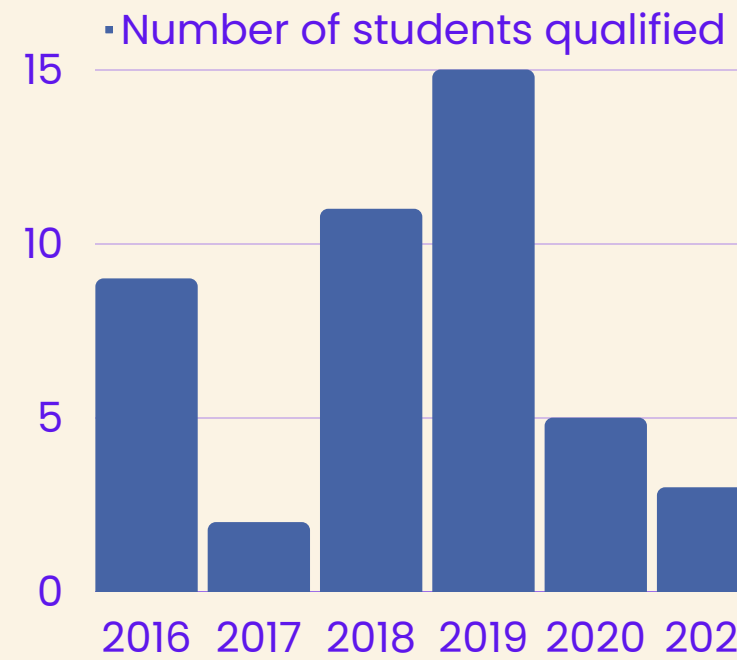


STUDENT SUPPORT & PROGRESSION

- Gate Mentorship
- Guidance for career counselling
- Frequent Alumni Meets
- Industry Visits
- Sports & Cultural Activities

ACADEMIC ACHIEVEMENTS

GATE 2019
 Amir Yaseen - AIR 126
 Wahid Gulzar - AIR 152



Around 20 students have qualified competitive exams like GRE, IELTS, TOEFL, NET/SET

'60 IUST students qualify GATE 2019'

Srinagar, Mar 25: About 60 students from Islamic University of Science and Technology (IUST) Awantipora have performed fairly in the Graduate Aptitude Test Engineering GATE – 2019.

A statement said 60 students belonging to different branches of engineering have qualified GATE- 2019 examination.

“Last year 20 students had qualified GATE-2018,” the spokesman said.

He said Amir Yaseen and Wahid Gulzar Bhat have secured All India Rank 126 and 152 in computer science and engineering branch.

Meanwhile Vice Chancellor IUST, Prof Mushtaq Ahmad Sidique has congratulated the qualifiers especially Amir Yaseen and Wahid Gulzar Bhat for bringing laurels to IUST.

Dean school of engineering and technology and Project coordinator TEQIP-III Prof. A H Moon also congratulated students.



PROMINENT ALUMNI



Sarmad Mehraj
Vice President
BYJU's, **India**



Neha Jain
IT Professional
Syntel, **India**



Imran Amin
Lead Software Developer
Al Rajhi Bank, **Saudi Arabia** Purdue University (NW), **USA**



Aakif Mehraj
Lecturer
Purdue University (NW), **USA**



Insha Kanue
AI Product Owner
HRS Group, **Germany**



Asra Azad
Chief Marketing Officer
VOSTAD, **India**



Muneer Ahmad Dedmari
AI Solutions Architect
NetApps, **Germany**



Basharat Bhat
Chief Scientist
Otago University, **New Zealand**



Younis Shah
Associate Manager
Accenture, **Singapore**



Bawna Bhat
Sr Executive HR
Operations
Persolkelly, **India**

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



ALUMNI MEETS



IUST ALUMNI COUNCIL
presents
An Online Panel Discussion on
GATE 2021: Challenges and Opportunities

facebook.com/iustalumnicouncil
instagram.com/iustalumnicouncil
twitter.com/IUST_AL_council

fb.com/iustalumnicouncil
18-07-2020
8:15 IST

Mr. Veqas Hussain
Faculty, SoET, IUST

Mr. Aamir Yaseen
Alumnus IUST
AIR: 126 (GATE-2019)

Mr. Wahid Gulzar
Alumnus IUST
AIR: 152 (GATE-2019)

IUST Alumni Council is an initiative by the alumni of IUST to facilitate discussions among various stakeholders of the university on issues prevalent in our education sector with special focus on IUST.

IUST ALUMNI COUNCIL
presents
Alumni Connect
21-11-2020, 8:00 PM IST
fb.com/iustalumnicouncil

YASIR HAMID WANI
Yasir is an alumnus of IUST, from where he did his bachelors in Computer Science Engineering in 2011. Yasir is a multipotentialite who craves for brain stimulating problems faced by digital consumers. He is currently working as a Global Data Analyst at the Corporate Head office of Majid Al Futtaim (UAE). Yasir currently manages digital analytics implementation across 9 countries spanning across the MENA region. He has previously worked as a Digital Analytics Specialist at Delivery Hero and as Product Analyst at Flyin (now Cleartrip). In his free time, Yasir contributes to

Alumni Connect is a series of live interactions with notable alumni of IUST with an aim to connect and engage with the alumni, while also serving as a road map for current students striving to make a mark besides motivating and encouraging them.





SPORTS & CULTURAL ACTIVITIES



TT TOURNAMENT



STUDENT SUMMIT



FUN FEST



CSE LIFTS THE TITLE (FOOTBALL)



CRICKET TOURNAMENT



VARIOUS SPORTS' TEAMS



STUDENT ACTIVITIES



BASKETBALL TOURNAMENT WINNERS



DEEKSHARAMBH (SIP)



CSE LIFTS THE TITLE AGAIN (FOOTBALL)



GOLD MEDALISTS



FUN FEST



DEPARTMENT



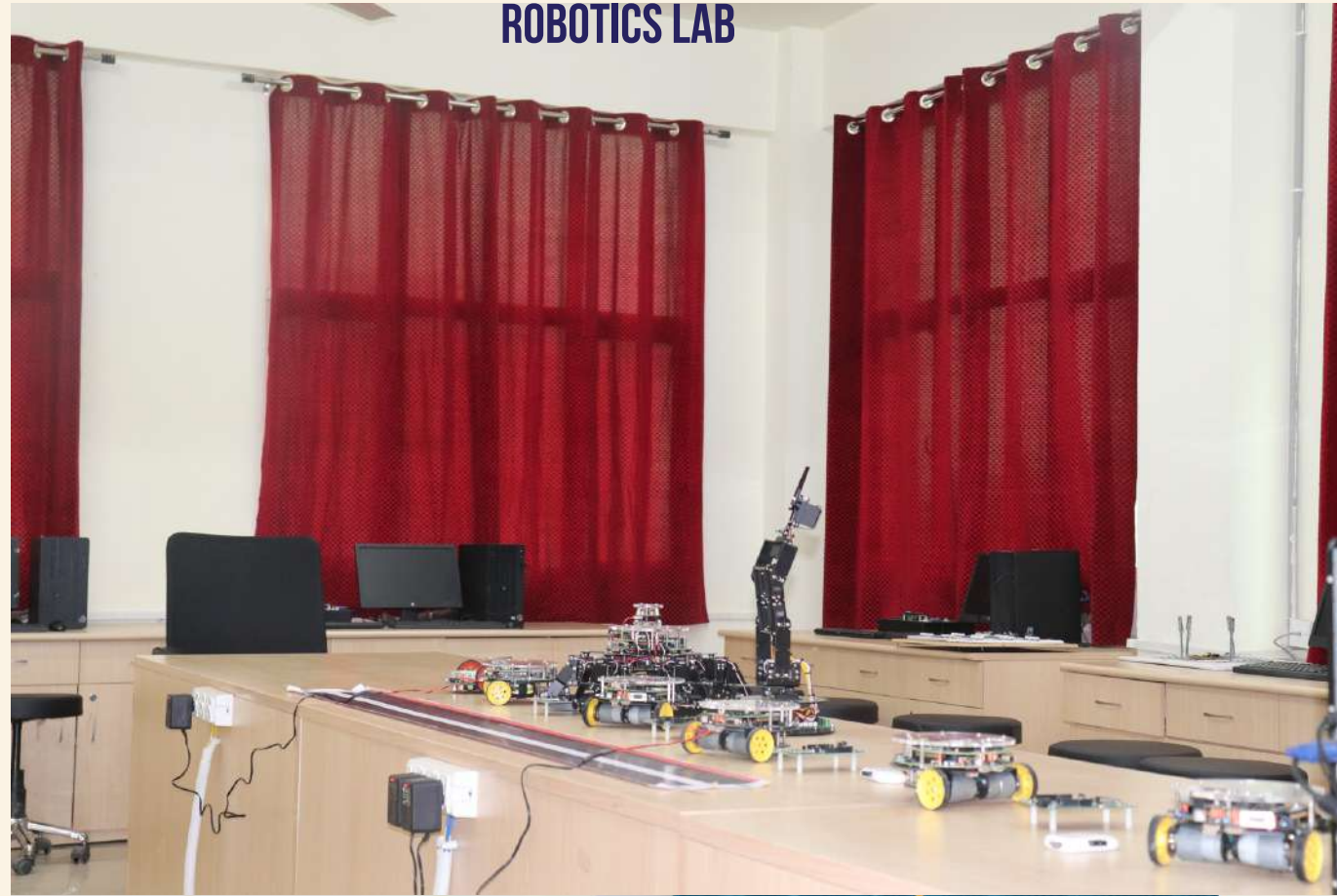
OFFICE



AUDITORIUM



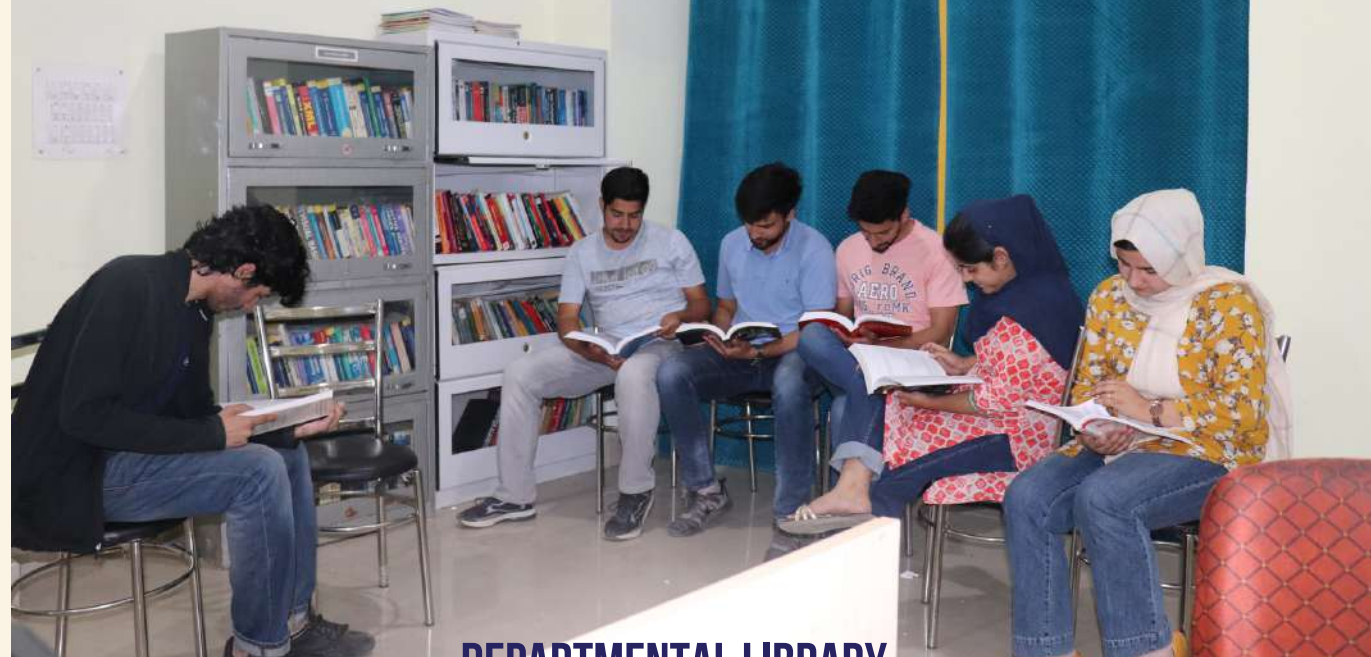
ROBOTICS LAB



STUDENT COUNCIL



DEPARTMENTAL LIBRARY



GIRLS COMMON ROOM





GOVERNANCE, LEADERSHIP & MANAGEMENT

DECENTRALIZED & PARTICIPATORY MODE OF GOVERNANCE

REPRESENTATION OF DEPARTMENT IN VARIOUS STUDENT COMMITTEES

- Student Council
- Cultural Committee
- Innovation Club
- Ideation Club
- Entrepreneurship Club

FUNCTIONAL COMMITTEES

- DIQAU
- Departmental Monitoring Committee
- Examination Committee
- Academics Committee
- Departmental Research Committee
- Training and Placement Committee
- Finance Committees



BEST PRACTICES

ACADEMICS

- Centre for Innovation and Entrepreneurship Development (CIED)
- MOOCs Committee
- Training & Placement Committee
- Proctorial Team & Harassment Committee
- Induction Program
- Startup & Innovation grants
- Robust ERP
- Seed Grants for faculty

GREIVANCE REDRESSAL & FEEDBACK MECHANISM

- For addressing grievances related to:

- Academics
- Examination & Evaluation
- Indiscipline Related Issues
- Gender Specific Complaints

Topic wise feedback by students

GENDER SENSITIVITY

- CCTV for safety & security
- Mentor-Mentee Meets for Counseling
- Separate common rooms for boys and girls



FUTURE PLANS

- To establish Centre of Excellence in AI and Cyber Security & Forensics.
- To collaborate with foreign Universities for faculty and student exchange programs.



Thank You

