



**HINDUSTAN**  
INSTITUTE OF TECHNOLOGY & SCIENCE  
(DEEMED TO BE UNIVERSITY)



Emerging Researchers with creative dynamism for promising innovations are invited to join Hindustan, a blossoming Deemed University with a rich heritage and commitment for excellence. It has a vision to become one of the best research universities in the country by the end of this decade. More than 400 research scholars are pursuing research at Hindustan Institute of Technology and Science. The scholars have opportunities to collaborate with international universities, research centres and industries in India or abroad.

**Admission  
January 2021  
Session**

**INVITING APPLICATION FOR Ph.D. – FULL TIME / PART TIME – JANUARY 2021**

FACULTY	FELLOWSHIP
<ul style="list-style-type: none"> <li>• Engineering &amp; Technology</li> <li>• Management, Architecture</li> <li>• Science &amp; Humanities</li> </ul> <p><b>Eligibility for Ph.D.:</b> ME / M.Tech / M.Phil / M.Sc./M.Arch./MBA in relevant branches with consistently good academic records</p>	<p><b>Ph.D :</b></p> <ul style="list-style-type: none"> <li>• Technology &amp; Science – Fellowship available for meritorious Full-Time, candidates</li> <li>• GATE / NET qualified Rs. 25,000 – 28,000/ p.m.</li> <li>• Eligible Candidates from:               <ul style="list-style-type: none"> <li>Engineering: Rs. 18,000/-p.m.</li> <li>Science &amp; Humanities: Rs. 15,000/-p.m.</li> <li>Management: Rs. 12,000/p.m.</li> <li>Others: Rs. 10,000 /p.m</li> </ul> </li> </ul> <p><b>PDF :</b></p> <ul style="list-style-type: none"> <li>• Rs. 35,000/p.m.</li> </ul> <p><i>Industry Participation is invited</i></p>
<p>Last date for submission of the completed application: <b>15<sup>th</sup> November, 2020</b></p> <p><b>Details of application procedures, Research areas, Eligibility and selection procedures are available in our website.</b> <b><a href="http://www.hindustanuniv.ac.in">www.hindustanuniv.ac.in</a></b></p>	<p><b>UNIQUE OPPORTUNITIES</b></p> <ul style="list-style-type: none"> <li>• Research Scholars can have joint Supervisors from Industry, R &amp; D organisations, Collaborating Institutions from India / abroad</li> <li>• Can do part Research work in Laboratories abroad (collaborating Universities)</li> </ul>
<p><b>Address:</b></p> <p><b>Regd. &amp; Admn. Office: No. 40, GST Road, St. Thomas Mount, Chennai - 600016 Tamilnadu, India</b> <b>Ph:+91 44 2234 2155 / 0980 /1389 / 2508 Fax: +91 44 2234 2170 Email: <a href="mailto:info@hindustanuniv.ac.in">info@hindustanuniv.ac.in</a></b> <b>Research Office - 9282525272</b></p>	



<b>*Conditions for Fellowship</b>	
<b>Ph.D.</b>	<b>PDF</b>
Consistently good academic record	Publications in WoS / Scopus / IEEE Indexed Journals/ Conference Proceedings etc.,
Minimum 75% marks obtained in UG & PG	Book Publications
Achievements and awards	Achievements and awards

- **Highlights**
- Full time PhD students are encouraged to present their research work at international conferences.
- Candidates can have Joint Supervisors from Industry, R&D Organisations and National Institutions of Repute and Collaborating Universities from abroad.
- Candidates also can carry out part of their research work in Laboratories of Collaborating Universities and Research Centres.

**Research Areas**

<b><i>Discipline</i></b>	<b><i>Broad Area of Research</i></b>
School of Aeronautical Engineering	<ul style="list-style-type: none"> <li>• Aero Dynamics</li> <li>• Aircraft structures</li> <li>• Avionics</li> <li>• Aero Space</li> <li>• Launch Vehicle</li> <li>• GPS</li> <li>• Joint Precision Approach and Landing Systems</li> <li>• Spacecraft Systems</li> <li>• Composites for Aircraft</li> <li>• GIS / Remote Sensing</li> <li>• Propulsion</li> <li>• Combustion</li> <li>• Aircraft Maintenance Engineering (with NDT)</li> </ul>
School of Building Sciences	<p><b>Structural Engineering</b></p> <ul style="list-style-type: none"> <li>• Cold formed Steel</li> <li>• Concrete, Composite &amp; Dynamics of structures</li> <li>• Sustainable concrete &amp; Steel structures</li> <li>• Earthquake engineering</li> <li>• Retro fitting of structures</li> </ul> <p><b>Environmental Engineering</b></p> <ul style="list-style-type: none"> <li>• Advanced oxidation Technologies for Water, Waste gas, Wastewater Treatment and Hydrogen Production</li> <li>• Air Quality Modelling and Waste Management</li> <li>• CO2 Sequestration</li> </ul>

	<ul style="list-style-type: none"> <li>• Maintenance Optimization in Water Distribution Networks</li> <li>• Performance Evaluation of pipe networks</li> <li>• Sustainable Water Management Integrated</li> <li>• Water Resources Management</li> <li>• Urban Planning</li> <li>• PERI – URBAN, Energy Efficient Architecture</li> <li>• Landscape Architecture</li> <li>• Smart Building</li> <li>• Construction Engineering</li> <li>• Highway Engineering</li> <li>• Civionics</li> <li>• Transportation Engineering</li> </ul>
School of Electrical Sciences	<p><b>ECE</b></p> <ul style="list-style-type: none"> <li>• Communication Network security</li> <li>• Signal Processing</li> <li>• Wireless Sensor Network</li> <li>• Wireless Communication Networks-Mobile</li> <li>• Photonics / Optical Communication</li> </ul> <p><b>EEE</b></p> <ul style="list-style-type: none"> <li>• Process Control</li> <li>• Renewable Energy</li> <li>• Signal Processing</li> <li>• Power system</li> <li>• High Voltage Engineering</li> <li>• Power Electronics</li> </ul>
School of Mechanical Engineering	<ul style="list-style-type: none"> <li>• Friction, Wear and Lubrication (Tribology)</li> <li>• Industrial Office Ergonomics</li> <li>• Heat Exchangers and Heat Transfer</li> <li>• Thermal Energy Systems</li> <li>• Materials and Metallurgy</li> <li>• Nano Materials</li> <li>• Composites</li> <li>• Ceramics</li> <li>• Renewable Energy</li> <li>• CAD/CAM/CAE</li> <li>• Mechatronics</li> <li>• Robotics &amp; Pneumatics</li> <li>• Machine Vision</li> <li>• Metal Cutting</li> <li>• Cylindrical / Surface Grinding</li> <li>• Welding Technology</li> <li>• Alternate Fuels&amp; Bio Diesel</li> <li>• Elective Vehicle Technology</li> <li>• Vehicle Dynamics</li> <li>• Autotronics</li> </ul>
School of Computing Sciences	<ul style="list-style-type: none"> <li>• Big Data</li> <li>• Network Security</li> <li>• Machine Intelligence</li> <li>• Advanced Computing</li> <li>• Adhoc Networks</li> <li>• Internet of Things</li> <li>• Cloud Computing</li> </ul>

	<ul style="list-style-type: none"> <li>• Deep Learning / Machine Learning / NLP</li> <li>• Block Chain</li> <li>• Image Processing / Computer Vision</li> </ul>
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School of Management Studies	<ul style="list-style-type: none"> <li>• Media Management</li> <li>• Business Analytics</li> <li>• Logistic and Supply Chain Management</li> <li>• Social Entrepreneurship</li> <li>• Resource Management and Sustainable Development</li> <li>• Hospitality Management</li> <li>• Healthcare Management</li> <li>• Information Systems</li> </ul>
Bio Technology	<ul style="list-style-type: none"> <li>• Tissue Engineering</li> <li>• Stem Cell Research</li> <li>• Stress Biology</li> <li>• Genetic Engineering</li> <li>• Microbial Technology</li> <li>• Toxicology</li> <li>• Cancer Biology</li> </ul>
Mathematics	<ul style="list-style-type: none"> <li>• Graph Theory</li> <li>• Differential Equation</li> <li>• Numerical Methods</li> <li>• Fuzzy Graphs</li> <li>• Quantitative Techniques &amp; Statistics</li> <li>• Fluid Dynamics</li> <li>• Operation Research</li> <li>• Topology</li> </ul>
Chemistry	<ul style="list-style-type: none"> <li>• Inorganic Materials / Nano Materials for Energy</li> <li>• Catalysis</li> <li>• Targeted drug delivery</li> <li>• Organic synthesis Complexes</li> </ul>
Physics	<ul style="list-style-type: none"> <li>• Materials Science / Nano Materials for Energy</li> <li>• Conducting Polymers</li> <li>• Nanocomposites</li> <li>• Magnetic Materials</li> <li>• Thin Films</li> </ul>
Fashion Design	<ul style="list-style-type: none"> <li>• Textile Designing</li> <li>• Apparel Design</li> <li>• Textiles and Fashion</li> </ul>
English	<ul style="list-style-type: none"> <li>• English Language Teaching</li> <li>• Aviation English</li> <li>• Business English</li> <li>• Computer Assisted Language Learning</li> <li>• American Literature</li> <li>• Past Colonial Literature</li> <li>• British Literature</li> <li>• Linguistics</li> <li>• Canadian Literature</li> <li>• Aboriginal Literature</li> </ul>

## **ADMISSION PROCEDURE**

Admission is generally offered on the basis of academic credentials, written test and interview.

Applications can be filled online with payment of Rs.1070/-

The completed application forms should contain following Documents.

1. Passport size Photo (2 nos.)
2. UG & PG Degree certificate (Xerox)
3. UG & PG Mark sheet (Consolidate)
4. Latest Curriculum Vitae (CV)
5. A brief write up of the desired area of research. proposed topic of Research to be investigated containing the following information:
  - Abstract
  - Introduction
  - Review of Literature
  - Objectives
  - Research Design
  - Materials & Methods
  - Expected outcome
  - References
6. No Objection Certificate from the employer (If applying Part – Time)
7. Demand Draft / Online payment for Rs.1070/- drawn in favour of HITS, Padur

## **Important Dates**

**Last date for Application submission - 15<sup>th</sup> November 2020**  
**1<sup>st</sup> December 2020 to 7<sup>th</sup>**  
**Written test and Interview - December 2020**  
**(Tentative Date)**

**For further information, kindly contact [researchoffice@hindustanuniv.ac.in](mailto:researchoffice@hindustanuniv.ac.in).**