UNDERGRADUATE PROSPECTUS
HITSEEE - 2018
B.TECH / B.ARCH
ADMISSIONS

No. 40, GST Road, St. Thomas Mount, Chennai - 600016
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Email: info@hindustanuniv.ac.in  Web: www.hindustanuniv.ac.in
Toll Free No.: 1800 425 4438
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Hindustan Institute of Technology & Science (Christian Minority Institution), a leading private Deemed University in Chennai completed 32 years of dedicated service to the nation. HITS offers 33 U.G.and 14 P.G programmes in Engineering, Technology, Management and Architecture including Ph.D., M.S. (By Research) and M.Phil. programmes in several disciplines. The HITS is a part of the most reputed Hindustan Group of Institutions which also includes institutions such as KCG College of Technology, Hindustan College of Arts and Science, Orient Flights Aviation Academy, Hindustan Institute of Engineering Technology, Hindustan First Grade College and Hindustan International School. This illustrious group caters to the academic needs of about 15,000 students. The campus is located in the suburb of Chennai city and offers state-of-the-art infrastructure facilities for world class academic pursuit.

The late Founder Chairman, Dr.K.C.G. Verghese, a visionary par excellence, realized his dream of evolving this citadel of learning for academic excellence. His illustrious life, constantly inspired by his philosophy – “To Make Every Man a Success and No Man a Failure” enabled him to develop this great institution, catering vibrantly to the academic, professional and social needs of the society.

Hindustan College of Engineering, one of the constituent units of Hindustan Group of Institutions, started in 1985, was conferred Deemed-to-be-University status by the University Grants Commission (UGC), New Delhi on 5th May 2008, in recognition of its academic and infrastructure excellence. Hindustan Institute of Technology and Science is rated as one among the top three private universities in the state by the MHRD. Hindustan Institute of Technology & Science has signed MoUs and possesses Academic Partnerships with several leading industries and universities in India and abroad. The HITS also undertakes many research projects from leading agencies like Department of Science and Technology (DST), DRDO, Naval Research Board, AICTE, etc. The student community includes those from several foreign countries, in addition to those from all states in India and thereby offers a cosmopolitan campus environment on campus.
Ranking & Accolades

Hindustan Institute of Technology & Science is one of the leading Technical Institutions in the country which has received many awards and recognitions for its excellence in higher education.

Hindustan Institute of Technology & Science has been accredited by National Assessment and Accreditation Council (NAAC) an autonomous institution of the University Grants Commission with 'A' Grade.

ACCOLADES

School of Management was Ranked 30 in South India. Ranked 12 in Tamilnadu. Ranked 6 in Chennai.

Awarded the Best Private University For Research and Innovation of the Year by Worldwide Achievers India at Asia Education Summit & Awards 2016

Madras Management Association Award for Managerial Excellence in Education.

Award of Excellence for promoting Excellence in Engineering Analysis and Simulation Practices in the Institute.

School of Management
Ranked 28 in South India.
Ranked 8 in Tamilnadu.
Ranked 3 in Chennai.

Ranked 2 among the Top Private Engineering Institutions in Chennai. Rated AAA.

Awarded Best University Promoting Research by ASSOCHAM, New Delhi.

Ranked 27 in South India, Ranked 9 in Tamilnadu and Ranked 4 in Chennai.

Awarded the Best Private University in India for Quality Education & Employability

Received CSR Excellence in Education Award 2016.
Ranked 20 in India among Engineering Institutions in terms of Placement / Industry Interface / USP.

AAA+ rating by CAREERS360 in India's Best Engineering Colleges survey 2015 – 16.

Ranked 32 in All India Level, 22 in South India, 10 in Tamilnadu & 4 in Chennai.
• TRAILBLAZERS AWARD received from Times of India Group.
• MMA Award for Managerial Excellence in Education.
• GURUKUL JYOTI Award for Best Engineering Institution in the country.
• THE WEEK rated Mechanical Engineering Programme as No.1 in Tamil Nadu in the 'Top Engineering Colleges Survey'.
• INDIA TODAY rated the Aeronautical Programme as one of the best in the country.
• GREAT PATRON OF SPORTS AND GAMES AWARD for the vision, infrastructure, appropriate processes and personnel to promote Sports and Games among the Youth in India.
• ARIGNAR ANNA AWARD towards Professional Education.
• G – CUBE AWARD (Green Governance) was presented by the former Chief Minister of New Delhi, Ms. Sheila Dixit.
• AIMA ranked the Business School Programme as B+
• eWorld2011-World Education Summit Awards
• Best Green Campus Award for the project Hindustan University Green Yuvatharang (HUGY).
• Star News B-School with industry related curriculum in Aviation Management.
• Bagged four B-School Awards from Daily News Analysis (DNA) & Star News.
• Lodges the state of the art lecture theatre called the “Andromeda Lecture Theatre” with a seating capacity of 500.
• Innovation Leadership Award to Business School, HITs in recognition of the Leadership, Innovation and Industry Interface.
• B-School Leadership award-The STAR NEWS National B-School Awards recognizes institutions that are innovative, modern & industry related in their curriculum in Marketing, Advertising and Communications.
• B-School with Industry Related Curriculum in Aviation Management. Hindustan Institute of Technology & Science is the only institution in this country to win an award in Aviation Management.
• State-of-the- art (CENCON) Clean Energy and Nano Convergence Research facility was inaugurated by His Excellency Dr. A.P.J. Abdul Kalam, former President of India.
• The Dr. K.C.G. Research and Resource Centre facility spread over 1.50 lakh sq. ft. that houses Digital Library and Post-Graduate facilities.
• Students are placed in reputed firms such as Deloitte, Infosys, L&T Info Tech, Capgemini, Ramco Systems, Mahindra & Mahindra, HCL Technologies, Ernst & Young, Honeywell, CDG Boeing, USA to name a few.
• Sponsored the Nobel Forum in the 30th International Conference on Physics of Semi Conductors (ICPS - 2010) held at Seoul, South Korea between July 25th and 30th 2010.
• Hindustan Institute of Technology & Science is the only institution with a Boeing 737 Aircraft Simulator and Airframe & ALSIM AL 50 Glass Cockpit Simulator.
• In the Research Area, the institution has obtained US$ 3 Million for aviation project from the Department of Science & Technology, Govt. of India (TIFAC-CORE).
• Hindustan Institute of Technology & Science has Hawker Beechjet 400 to offer training to the students in Aircraft Maintenance.

Highlights / Unique Features
• Strong National and International expertise reflected through the faculty.
• International Students Exchange Programmes with reputed universities abroad.
• Wi-Fi class rooms and computer labs.
• Offers about 35 unique specialized courses for Engineering Programmes.
• The only University to have represented India at China and won the International Academic Exchange Award 2013.
• Won 6 out of top 15 projects in NASA Tech Briefs International Project Contest 2013 under public choice category.
Programmes Offered at HITS

- B. Tech. Aeronautical Engineering
- B. Tech. Aerospace Engineering
- B. Tech. Automobile Engineering
- B. Tech. Bio Technology
- B. Tech. Bio Medical Engineering
- B. Tech. Chemical Engineering
- B. Tech. Civil Engineering
- B. Tech. Computer Science & Engineering
- B. Tech. Electrical & Electronics Engineering
- B. Tech. Electronics & Communication Engineering
- B. Tech. Mechanical Engineering
- B. Tech. Mechatronics Engineering
- B. Tech. Information Technology
- B. Arch. Architecture
- B. Des. Interior Architecture
- B.Des. Fashion Design

CENTRES OF EXCELLENCE

CENTRE FOR AUTOMATION AND ROBOTICS (ANRO)

CENTRE FOR CLEAN ENERGY AND NANOCONVERGENCE (CENCON)

CENTRE FOR DEFENCE TECHNOLOGY STUDIES (CDTS) in collaboration with Cranfield University, U.K

CENTRE FOR AUTONOMOUS VEHICLES (CAV)
Eligibility for Admission to Professional Programmes (B.Tech / B.Arch)

B. Tech / B.Des Programmes
Candidates seeking admission to the first semester of the eight semester B.Tech degree programme should have passed the Higher Secondary examination (12th) Curriculum (Academic Stream) prescribed by the Government of Tamil Nadu with Mathematics, Physics & Chemistry or equivalent. Improvement marks will not be considered for admission

Eligibility Marks:
Academic Stream: A minimum average of 50% in Physics, Mathematics and Chemistry put together.

For B.Tech Biotech Only:
A minimum average of 50% in Physics, Chemistry and Mathematics or Biology put together.

Eligibility Marks:
Vocational Stream: A minimum Average of 50% marks in the related subjects and vocational subjects (Theory and Practical).

B. Arch Programme (5 Years)
- A pass in the plus two examination with an aggregate of not less than 50% in (10+2) level or its equivalent examination with Mathematics as one of the subjects.
- International Baccalaureate diploma passed / appearing after 10th are also eligible.
- A pass in 3 year Diploma (10+3) examination recognized by the Central / State Government with Mathematics as a subject of study with an aggregate of not less than 50%.
- Any other examination of any University or authority recognized by HITS as equivalent to plus two.
- All applicants for B.Arch. Course should have written the National Aptitude Test in Architecture, India (www.nata.in / www.nata.nic.in) conducted by Council of Architecture and secure the minimum eligible marks as per COA norms.
- Age Limit: Upper age limit will be 19 years as on 30th April, 2018.

Placements & Ranking
SCHOLARSHIPS

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<td>HITSEEE Rank Holder of 51 - 100</td>
<td>50% Tuition fee waiver</td>
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COUNSELLING

Counselling Procedure for allocation of seats / branch:

The counselling for the allocation of course of study to the short listed candidates is based on their All India Rank (AIR) in the HITSEEE - 2018. A candidate may obtain this information on the HITS website or by enquiring with Hindustan Admission office on the day after the declaration of the HITSEEE - 2018 results.

A Mere Pass Marks in HITSEEE - 2018 Entrance Exam does not guarantee admission. Admission depends upon the candidate’s All India Rank in the entrance examination and the availability of the seats.

Hindustan Institute of Technology & Science is not responsible if the information on counselling does not reach the students. The information regarding counselling will be published on the University’s website and it is the responsibility of the candidate to check the website.

Advance Payment

The selected candidates should submit the Payment by DD / NEFT / RTGS for ₹ 50,000/- in favour of “Hindustan Institute of Technology and Science”, payable at Chennai. Refund as per HITS policy.
Submission of Documents at the time of Counselling

The candidate should produce the below mentioned documents (original) along with one set of photocopies at the time of reporting for counselling. Candidates will not be allowed to participate in the counselling process without the following documents:

- HITSEEE - 2018 Admit card
- Class X Board Certificate as a proof for date of birth or any other certificate for age proof
- Mark Sheet of Qualifying Examination (if available)
- Community Certificate (for SC/ST)
- Nativity Certificate
- Two recent Passport size Photographs (color)
- Payment by DD / NEFT / RTGS for ₹ 50,000/- drawn in favour of “Hindustan Institute of Technology and Science”, payable at Chennai.

Important Instruction pertaining to HITSEEE - 2018

The candidates should inform the invigilator immediately if they encounter any problem with the computer.

Pattern of Entrance Examination

- The question paper will be only in English.
- The duration of the examination will be 2 hours.
- All questions will be of objective type and following is the pattern
  - Part - I  Physics
  - Part - II  Chemistry
  - Part - III  Mathematics
Guidelines to fill in the HITSEEE APPLICATION FORM

- Candidates applying for HITSEEE 2018 should fill in the application in the prescribed format and send it only through registered post along with an acknowledgment.

- Along with the prescribed application an envelope is also provided for posting.

- The completed application form should reach the Admission Office on or before 5 pm on 20/04/2018.

Instructions to fill the HITSEEE form

General Information

- The name of the candidate, their parent's/guardian's name, and date of birth should be the same as given in your 10th certificate. Any deviation, if detected, may lead to cancellation of the candidature.

- The HITSEEE 2018 application form should not be tampered. No marking should be made anywhere on the registration form.

- Ensure to affix a good quality recent colour photograph with white background (Name and date of the photograph taken should be printed on the photo).

- Incomplete application or application form filled in a language other than English will be summarily rejected.

- Exam center opted by the candidate in the form cannot be changed after submission.

- Place, date, name, mobile number, phone number, Email ID should be written neatly and declaration should be signed by both the candidate and Parents/Guardian.

- The HITSEEE 2018 registration form without the signature of candidate and signature of parents/guardian is liable to be rejected without any further correspondence.
SAMPLE QUESTIONS (30 Nos.)

Total No. of Questions for HITSEEE - 120

1. Picric acid and benzoic acid can be distinguished by the aqueous solution of ________.
   (A) NaHCO₃   (B) Na₂CO₃
   (C) NaOH   (D) FeCl₃

2. Which one of the following is an example of elimination reaction?
   (A) Chlorination of methane  (B) Dehydration of ethanol
   (C) Nitration of benzene   (D) Hydroxylation of ethylene

3. Which is not a reducing agent?
   (A) Hypophosphorous acid  (B) Phosphorus acid
   (C) Nitrous acid   (D) Orthophosphoric acid

4. The oxidation number of chromium in chromyl chloride and its geometry is
   (A) +6, tetrahedral  (B) +4, tetrahedral
   (C) +6, octahedral (D) +4, square planar

5. The rearrangement of allyl phenyl ether to yield o-allyl phenol is associated with the name of
   (A) Fries  (B) Jacobson
   (C) Clasien   (D) Fischer-Hepp

6. Nuclear energy is based on the conversion of -
   (A) Protons into Neutrons  (B) Neutrons into Protons
   (C) Mass into Energy   (D) Uranium into Radium

7. During isothermal expansion of an ideal gas, its
   (A) Internal energy increases  (B) Enthalpy increases
   (C) Enthalpy reduces to zero (D) Enthalpy remains unchanged

8. When beam of light is passed through a colloidal solution?
   (A) It passes through as such  (B) It is reflected
   (C) It is scattered   (D) It is completely absorbed

9. Which among the following gases is mass is most readily soluble in water under ordinary conditions?
   (A) NH₃  (B) CO₂  (C) H₂S  (D) N₂

10. Precipitation takes place when the ionic product
    (A) Equals the solubility product (B) exceeds the solubility product
     (C) is less than the solubility product   (D) is almost zero

11. Bodies which do not allow the charges to pass through it are called ________.
    (A) Conductors   (B) Insulator
    (C) Semiconductor  (D) Superconductor.

12. ________ Gate or Inverter is a device whose output is 1 when its input is 0 and whose output is 0 when its input is 1.
    (A) OR Gate  (B) AND Gate  (C) NOT Gate
    (D) XOR Gate

13. Four charges +q, +q, -q and -q respectively are placed at the corners A, B, C and D of a square of side ‘a’. The Electric potential at the centre ‘O’ of the square is ________.
    (A) \(q/4 \pi \epsilon_0 a\)  (B) \(4q/4 \pi \epsilon_0 a\)
    (C) Zero   (D) \(4q\)

14. The velocity of a particle is given by \(v = 20t^2 - 100t + 50\) where \(v\) is in metre per sec and \(t\) is in sec. The velocity when the acceleration \(a\) is zero is
    (A) 75m/s  (B) -75m/s  (C) 150m/s
    (D) -150m/s

15. Which of the following transitions in hydrogen atom emits the photon of lowest frequency?
    (A) \(n=2\) to \(n=1\) (B) \(n=4\) to \(n=2\) (C) \(n=4\) to \(n=3\)
    (D) \(n=3\) to \(n=1\)

16. Determine the depth of water that contains the same number of waves as 16 cm of glass when each is traversed by the same monochromatic light given u of water and glass are 4/3 and 3/2 respectively.
    (A) 18 cm  (B) 12 cm  (C) 15 cm  (D) 10 cm

17. The first excitation potential of a given atom is 10.2 volts. Then the ionisation potential must be
    (A) 20.4v  (B) 13.6v  (C) 30.6v  (D) 40.8vb

18. A wire suspended vertically from one end is stretched by a weight of 200N at other end. The wire stretches by 1mm. The energy gained by wire is
    (A) 0.1 joule  (B) 0.2 joule  (C) 0.4 joule
    (D) 10 joule

19. In fusion the percentage of mass converted into energy is about
    (A) 0.01%  (B) 0.1%  (C) 1%   (D) 10 %
20. An electron is accelerated from rest by the application of a potential difference of \(V\) volts. What is the percentage change in its de Broglie wavelength for a 1% change in \(V\)?
   (A) 0.5% decrease  (B) 1% increase  
   (C) 1% decrease  (D) 0.25% increase

21. The coordinates of the point on the parabola \(y^2 = 8x\), which is at minimum distance from the circle \(x^2 + y^2 = 1\) are:
   (A) \((-2, -4)\)  (B) \((18, -12)\)  (C) \((2, 4)\)  
   (D) None of these

22. The area in square units of the region bounded by the curve \(x^2 + y^2 = 1\), the line \(x = 2\) and x-axis is
   (A) 1  (B) 23  (C) 43  (D) 83

23. The 4th term in the expansion of \(x^1x^5, x > 0\), is
   (A) independent of \(x\)  (B) positive  
   (C) negative  (D) the only middle term

24. If the coefficient of \(r\)th term in the expansion of \(x^20 = 1\) coefficient of \((r + 2)\)th term, then \(r\) equals
   (A) 12  (B) 8  (C) 10  (D) 9

25. If \(x, y \in \text{Boolean algebra}\) then the dual of the statement \(x + y' + x')y' = 1\)
   (A) \(x' + (y + x') y' = 0\)  (B) \(x'((y' + x') + y') = 0\)  
   (C) \((x' + y') + y = 0\)  (D) None of these

26. Let \(R = \{(1, 3), (4, 2), (2, 4), (2, 3), (3, 1)\}\) be a relation on the set \(A = \{1, 2, 3, 4\}\). Then the relation \(R\) is
   (A) a function  (B) transitive  
   (C) not symmetric  (D) reflexive

27. Let \(A_1\) be the area of the parabola \(y^2 = 4ax\) lying between vertex and latus rectum and \(A_2\) be the area between latus rectum and double ordinate \(x = 2a\). Then \(A_1/A_2\)
   (A) \(22 - 1\)  (B) \((2 + 1)/7\)  (C) \((2 - 1)/7\)  (D) 2

28. solution of \(\sin x \cos y \, dy + \cos x \sin y \, dx\) is
   (A) \(\cos x + y = k\)  (B) \(\sin x + y = k\)  (C) \(\sin x \sin y = k\)  
   (D) \(\sin x - \sin y = k\)

29. Let PQ and RS be tangents at the extremities of the diameter PR of a circle of radius \(r\). If PS and RQ intersect at a point X on the circumference of the circle, then 2r equals
   (A) PQRS  (B) PQRS2  (C) 2PQRS  
   (D) PQRS2

30. The equation \(|x - 2| + |x - 9| = 7\) has solution if
   (A) \(x = 2\)  (B) \(x = 9\)  (C) \(x \geq 9\)  
   (D) \(2 \leq x \leq 9\)
## IMPORTANT DATES

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<td>Last Date for Submission of Filled in Application form</td>
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## ONLINE EXAM CENTRES

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OTHER PROGRAMMES OFFERED AT HITS

SCHOOL OF ARTS / APPLIED SCIENCES /

HUMANITIES

BA (3 yrs)
- Economics

BBA (3 yrs)
- General
- Travel & Tourism Management

BCA (3 yrs)
- General
- Database Systems
- Multimedia & Animation

B.Com (3 yrs)
- General
- Banking Management

B.L.L.S: Library Information Science

B.Sc (3 yrs):
- Aircraft Maintenance Engg.
- Avionics
- Anesthesia Technology
- Cardiovascular Technology
- Fashion Design
- Food Technology
- Perfusion Technology
- Visual Communication

M.Sc.: Chemistry / Material Sciences

M.A., English Language Communication

MCA (3 yrs):
- Regular
- Big Data Analytics
- Cloud Computing

EVENING COURSES:

B.TECH. - Civil / CSE / ECE / EEE / Mech. / IT

MARCH (3 yrs)
- (General & Housing)

M.TECH.
- Aeronautical Engineering
- Avionics
- Automobile Engineering
- Thermal Engineering
- Power Systems Engineering
- Construction Engineering & Management
- Computer Science & Engineering
- Information Technology

SCHOOL OF ARCHITECTURE

B.ARCH. (5 yrs)

MARCH. (3 yrs) (General & Housing)

M. PLAN (2 yrs)

SCHOOL OF ENGINEERING & TECHNOLOGY

M.TECH COURSES (Full time 2 yrs)
- Aeronautical Engineering
- Aircraft Maintenance Engineering
- Automobile Engineering
- Avionics
- Avionics (UAV)
- Computer Aided Design
- Construction Engineering and Management
- Computer Science and Engineering (CSE)
- CSE (Internet Engg.) / CSE (Data Science & Engg.)
- CSE with IBM (Business Analytics & Optimization, Banking, Financial Services & Insurance)
- Engineering Design
- Environmental Engineering
- Mechanical Engineering
- Power Electronics and Drives
- Refrigeration and Air-Conditioning
- Robotics & Control
- Structural Engineering
- Thermal Engineering
- Information Technology
- Information Technology (Ethical Hacking)

SCHOOL OF MANAGEMENT

MBA (Full time - 2 yrs):
- Aviation Management
- Media & Entertainment
- Hospitality Management
- Defence Technology Management
- Sports Management
- Regular (Specialisation in Finance / Marketing / Human Resources / Systems)

M.Tech. (By Research)
- (Full Time/Part Time) 2 years

Doctoral Programmes (Ph.D.)
- Full Time/Part Time 3 years

M.Phil
- (Full Time & Part Time)

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