



**GOVERNMENT OF KERALA**

**Abstract**

Higher Education Department - Government Engineering College, Barton Hill, Thiruvananthapuram - Admission to M.Tech in Translational Engineering - 2019 - prospectus - Approved - Orders issued.

**HIGHER EDUCATION (G) DEPARTMENT**

**G.O (Ms) No.202/2019/HEDN**

**Dated, Thiruvananthapuram, 29.06.2019**

Read: letter No.T2/13542/19/DTE dated 23.05.2019 of the Director of Technical Education Thiruvananthapuram.

**ORDER**

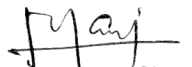
Government are pleased to approve the Draft prospectus for admission to M.Tech Course in Translational Engineering in Government Engineering College, Barton Hill, Thiruvananthapuram for the year 2019, as appended herewith.

(By order of the Governor)  
**C. M. AJAYAMOHAN**  
**ADDITIONAL SECRETARY**

To

The Director of Technical Education, Thiruvananthapuram.  
Principal, Government Engineering College, Barton Hill, Thiruvananthapuram.  
The Registrar, APJ Abdul Kalam Technological University, Thiruvananthapuram.  
Principal Accountant General (A&E/Audit) Kerala, Thiruvananthapuram.  
The information Officer, (Web & New Media), I & PR Department.  
✓ [www.highereducation.kerala.gov.in](http://www.highereducation.kerala.gov.in)  
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Forwarded/By order

  
Section Officer

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## M.Tech in Translational Engineering

### Government Engineering College, Bartonhill



### Admissions- 2019

#### **Introduction**

Government Engineering College Barton Hill is pleased to offer the two year interdisciplinary M.Tech programme in Translational Engineering under the initiative of the Higher Education Department facilitated through Directorate of Technical Education, Government of Kerala. The programme is run through the Translational and Professional Leadership Centre (TPLC) housed in Government Engineering College Barton Hill. The centre works with close association and guidance from the Indian Institute of Technology Madras, Indian Institute of Technology Bombay, Technical University Delft, Netherlands, Columbia University and other Government departments. This programme is approved by the All India Council for Technical Education (AICTE) and is affiliated to the APJ Abdul Kalam Technological University (KTU). The total intake of the programme is 18 candidates.

#### **Government Engineering College Barton Hill**

Government Engineering College, Barton Hill (GECBH) is one of the prominent technological institutes in Kerala. The college now offers five full time B.Tech. degree courses and five full time M. Tech degree courses. In addition the institution conducts a one year Advanced Diploma in Automotive Mechatronics in association with M/s Mercedes Benz India. It has collaboration with various industry partners such as Mercedes Benz, BOSCH Ltd, Academic partners such as IIT Madras, and scientific research organizations such as VSSC, CDAC etc. The college has signed MOU with various organizations such as Goethe Zentrum, ICT Academy etc., for enhanced collaboration in professional activities.

#### **What is Translational Engineering?**

*Translational Engineering is a niche area that focuses on extending technology to the society in a seamless and humanistic manner. It is an approach applicable to each branch of Engineering, retaining the nature and scope of the respective branch of Engineering, bringing in an additional multi*

*disciplinary aspect. This discipline holds its place between research and practice of all branches of Engineering, translating between the abstractions of research and practice. The involvement of government departments/industry in the discussions and mentoring of research institutions can help to orient research and education activities toward's addressing the grand engineering challenges of the 21<sup>st</sup> century society, bring expertise to support knowledge transfer initiatives, and signal willingness to introduce innovation-oriented approaches in all activities. The professionals working on such knowledge transfer must possess a wide range of skills in order to carry out their tasks effectively and they have to prove themselves to be responsible engineers with a strong social commitment coupled with ethical values. The pedagogy at TPLC focus on developing skills for young engineers to respond to uncertain situations, adaptiveness in multicultural global environments and ability to innovatively leverage the opportunities with fast changing technologies. TPLC endeavours*

### Vision

- To present, discuss and debate the transformation of basic knowledge into ideas and candidates for translation so as to deliver sustainable innovative products and services for the benefit of society
- To empower the student community with professional, ethical and social awareness, there-by moulding them to become smart and wise professionals with a global outlook and social commitment.
- To analyse the social, political, economic and cultural aspects under the technology umbrella.

### Mission

- To build Responsible Engineers who hold paramount importance to the health, safety and welfare of the general public.
- To inculcate the concept of sustainability and green technologies in Engineering disciplines.
- To sensitize students to the practical challenges that organisations face and understand the nuances and realities of the industry apart from technical knowledge.
- To inculcate the spirit of working in multi-disciplinary teams and gain on- the- job experience through active and challenging work on real engineering projects.
- To foster creative talents, innovative research, self-awareness and life-long learning.

### Translational Research and Professional Leadership Centre (TPLC)

Translational Research and Professional Leadership Centre (TPLC) at Government Engineering College Barton hill (GECBH), Thiruvananthapuram, India, is working with a motto "Transforming Professionals to Transform the Nation". It is a promising research Centre, which imparts timeless leadership activities, self-awareness and integral education, visiting scholar programs featuring Nobel laureates, erudite weeks and conducting workshops on social responsibility projects. In addition, industrial visits are facilitated to give hands on training on real-time Engineering projects.

Translational Research and Professional Leadership Centre (TPLC) is supported by prestigious institutions spread over India and Abroad. To expose the students to the challenges of the real world, a mandatory internship program spanning six weeks (one and a half month), as envisaged in the curriculum of the APJ Abdul Kalam Technological University is facilitated by Technical University, Delft, Netherlands, Regen Power Australia , IIT Madras, IIT Bombay and Loyola college, Trivandrum.

TPLC, GEC Barton Hill, has signed a memorandum of understanding with IIT Madras on academic and research activities on the following categories on December 16, 2016.

- Academic and Research collaboration in the areas of mutual interest.
- Exchange of academic information, scholarly information, materials and publications.
- Exchange of students and faculty.
- Sponsorship of cooperative seminars, workshops and other academic meetings.

### 1. General

The duration of the M.Tech Translational Engineering Degree Programme is two academic years spanning four semesters. A student who successfully completes the programme will be awarded M.Tech degree in Translational Engineering by the APJ Abdul Kalam Technological University (KTU).

### 2. Eligibility

- 2.1. The candidates for admission to M.Tech Translational Engineering programme should have passed B.Tech or any equivalent degree in any Engineering discipline from a University approved by AICTE/UGC. If the degree is from a University outside India, certificate of equivalency issued by AIU is mandatory.
- 2.2. The candidate should have a minimum CGPA which is equivalent to 60% aggregate marks. For SC/ST candidates a pass in the Engineering degree course is sufficient. For SEBC(OBC) students, a minimum CGPA equivalent to 54% aggregate marks in the Engineering degree examination is mandatory.
- 2.3. Candidates who have passed AMIE/AMIETE examination and satisfying the condition of a minimum mark of 55% for section B in AMIE/AMIETE examinations are also eligible for admission to M.Tech Translational Engineering.
- 2.4. Sponsored candidates from the Government Departments can apply for the programme through proper channel.
- 2.5. Candidates who have appeared for the final semester examination can also apply, provided he/she has passed all the subjects upto and including the 6<sup>th</sup> semester exam. Confirmation of admission of such candidates shall be subject to the production of qualifying degree satisfying clauses 2.1 to 2.3 as applicable on or before November 30, 2019.
- 2.6. The sponsored candidates, If they fail to qualify within the period specified in KTU ordinance/regulations, the entire expense incurred by Govt. for them should be refunded to the concerned department. Within 6 months after qualification, they have to present a demo of a project before Director of Technical Education how the knowledge they have acquired can be applied in their department/agency in an Engineering project. They have to execute a bond to this effect before admission to this course.

### 3. No. of seats, Age limit and Reservation of seats

- a) The total number of seats for the Programme is 18. Out of the 18 seats, 8 seats are reserved for sponsored candidates from Government sector/Industry/NGO and 10 seats for non-sponsored candidates.
- b) For sponsored candidates from Government departments the maximum age limit is **44 years**. (Not born before June 1, 1975). However, age limit does not apply to non-sponsored and self-funded candidates from Government sector/Industry/NGO.
- c) 30% Seats are reserved for candidates belonging to Socially and Educationally Backward Classes (SEBC). Candidates belonging to SEBC (OBC) and OEC should produce a certificate to the extent that the candidate belongs to the community which is designated as an SEBC (OBC) / OEC and does not belong to the category of Creamy Layer.
- d) 10% Seats are reserved for SC/ST Candidates (SC-8%, ST-2%).
- e) The seats reserved for each category will be distributed among the eligible communities by observing the pattern of general reservation rules of the state.
- f) 5% seats are reserved for different abled candidates.

The programme is conducted through the Directorate of Technical Education and the tuition fee for the Programme is **Rs.45000/- per semester for all categories.**

### 5. International Internships

The non-sponsored candidates who are offered internships in International Universities based on their performance are given internship allowance of a maximum of Rs 1,00,000 from their paid fees of Rs.1,80,000 as per G.O(Rt) No. 1978/2017/H.Edn.dated 1.11.17. For sponsored candidates the internship fees will be sponsored by the government based on G.O(Rt) No. 243/2018/H.Edn.dated 5.12.17, issued from time to time, which is a policy decision of the Government.

### 6. Admission

Admission to the M. Tech Programme in Translational Engineering is made on the basis of total marks obtained for the qualifying examination and a personal interview. This is applicable to all categories of students. The selection of candidates is done by Translational Research and Professional Leadership Centre (TPLC), GEC Barton Hill.

### 7. No Liquidated Damages

As per G.O (Rt)No.77/2019/H.Edn dated 18/01/2019, the liquidated damages are fully exempted and stated that the clause of chapter 7.13 of AICTE approval process Hand Book 2019-20 stated as follows.

- a) In the extent of a student withdrawing before the start of the course, the entire fee collected from the student, after a deduction of the processing fee of not more than Rs.1,000/- (Rupees One Thousand only) and proportionate deductions of monthly fee and hostel rent, where applicable.
- b) In case, if a student leaves after joining the course and if the vacated seat is consequently filled by another student by the last date of admission, the Institution must refund the fee collected after a deductions of processing fee not more than Rs.1,000/- (Rupees One Thousand only) and proportionate deductions of monthly fees and hostel rent, where applicable.
- c) In case the vacated seat is not filled, the Institution should refund the security deposit and return the original documents.
- d) The Institution should not demand fee for the subsequent years from the students cancelling their admission at any point of time. Fee refund along with the return of certificates should be completed within 7 days.
- e) Institution not following guidelines issued by the council regarding refund of fee for cancellation of admission or delaying refunds shall be liable to anyone or more of the following punitive actions by the council.
  - Fine for Non- Compliance of refund rules of the fee levied against each case shall be five times the total fee collected per student
  - Suspension of approval for NRI and supernumerary seats, if any for one academic year
  - Reduction in "Approved Intake"
  - No admission in one/more course (s) for one academic year withdrawal of approval for Programme(s)/Course(s)

### 8. Mandatory requirements of M.Tech Translational Engineering

- a) Departmental Assistance for 8 hours/week for all students.
- b) Transformative programmes: Maximum of six for all students.
- c) Industrial visits: Minimum six industrial visits for the entire programme for all students.
- d) Socially responsible activities- Each student has to attend a socially relevant camp for minimum 10 days duration outside their home station involving in social responsible activities.
- e) The students of Translational Engineering undergo six weeks mandatory internship at reputed national/International Institutes, supported by the Institution/Government of

- f) Acceptance of the Project/ Thesis work in any reputed National/International Journal publication. The specifications of the journal will be issued by TPLC.
- g) Completing one MOOC course per semester of not less than 8 weeks duration.
- h) After the final University exams, a compulsory on the job training is facilitated under a Governmental/Non-Governmental Organisation/Industry spanning 3 months named the "Social Butterfly Programme" ("സോशल ബട്ടرف্লাई"), to address the ongoing and emerging global challenges and collective transformation of individuals through a technological, economical and cultural restructuring framework.

### 9. Scholarships/Awards

- a) GATE Stipend for GATE qualified candidates
- b) Financial support for internships based on performance evaluation.
- c) Best Project Award
- d) Best outgoing student Award

10. Any other details not specifically covered in the prospectus given will be decided by the Director of Technical Education and his/her decision will be final and also empowered to cancel any admission found to be illegal subsequent to the admission.

### Important Dates

Registration of application form will open on	June 14 <sup>th</sup> 2019
Last date for application	July 2 <sup>nd</sup> 2019
Date of interview	July 10 <sup>th</sup> 2019
Publication of Results	July 13 <sup>th</sup> 2019
Date of joining	July 30 <sup>th</sup> 2019
Admission closes on	*As per DTE office for the M.Tech course of the current academic year
Commencement of Classes	August 1st 2019 (As per KTU)

### How to apply

## How to apply

The application can be downloaded from the TPLC website [tplc.gecbh.ac.in](http://tplc.gecbh.ac.in)

The application fee is Rs.500/- for GEN/OBC/OEC and Rs.100/- for SC/ST. The fee can be paid by ANY ONE of the following methods.

1. By Cash – At TPLC Centre, Government Engineering College Barton Hill.
2. Demand Draft – In favor of "Coordinator, TPLC, GEC Barton Hill".
3. Online Banking – TPLC Account No: 67314066447, IFSC Code: SBIN0070415.

## Contact Us

Dr.Suja R  
Programme Coordinator  
Translational Research and Professional Leadership Centre [TPLC]  
Government Engineering College Barton Hill  
Thiruvananthapuram - 695035

Website: [tplc.gecbh.ac.in](http://tplc.gecbh.ac.in)  
<https://tplcinternships.in/>

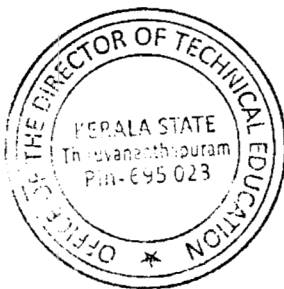
E-Mail: [tplc.gecbh@gmail.com](mailto:tplc.gecbh@gmail.com)

Phone/Fax: 7736136161/9495058367

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<https://www.instagram.com/tplcgecbh/>

<https://twitter.com/tplcgecbh>



  
Director of Technical Education