TPLC
GOVT.ENGG COLLEGE, BARTON HILL
transforming professionals to transform the nation

Government Engineering College
Barton Hill, Thiruvananthapuram

Translational Research and Professional Leadership Centre [TPLC]

M.TECH. TRANSLATIONAL ENGINEERING
ADMISSION 2023

Highlights

- **International / National Internships at reputed Institutions**
- **Credit Transfer System - Joint Projects with IITs encouraged**
- **Industry - Academic Linkage**
  - **Social Butterfly Programme**
  - **Training and guidance for student start-ups**
- **Earn While You Learn Scheme**
- **Boot Camp / training programmes to students**
- **10 days Social Responsibility Camp**
- **Opportunities with PMI-Kerala Chapter**
- **Opportunity to work in live projects**
- **Research assistance**
- **GATE / Non-GATE /E-Grantz scholarship**
- **Best Project Award/Best outgoing student award**

Scan to Apply

Last date: 31/07/2023

Eligibility
- Candidates should possess a B.Tech. or equivalent degree from a recognized University.
- Age limit 44 years (not born before June 1st 1979) for Govt. sponsored candidates.
- Candidates from all branches of Engineering can apply.

TPLC, Government Engineering College Barton Hill, Kunnukuzhi, Thiruvananthapuram Kerala – 695 035, India

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GOVERNMENT OF KERALA

Abstract

Higher Education Department - Technical - Prospectus for Admission to M.Tech in Translational Engineering - 2023- Approved - Orders issued.

GOVERNMENT (G) DEPARTMENT

G.O.(Ms)No.388/2023/HEDN   Dated,Thiruvananthapuram, 11-07-2023

Read: 1. Letter No T2/23746/23/DTE dated 23.06.2023 from the Director of Technical Education, Thiruvanavanthapuram.

ORDER

Government are pleased to approve the prospectus for admission to the Course M.Tech Translational Engineering in Government Engineering College, Barton Hill, Thiruvananthapuram for the year 2023, which is appended herewith.

(By order of the Governor)
ASHA A K
DEPUTY SECRETARY

To:

The Director of Technical Education, Thiruvananthapuram,

The Principal, Government Engineering College, Barton Hill, Thiruvananthapuram.

The Registrar, APJ Abdul Kalam Technological University, Thiruvananthapuram.

The Accountant General (A&E/Audit), Kerala, Thiruvananthapuram.

www.highereducation.kerala.gov.in

Stock File/Office Copy.

Forwarded /By order

Signed by
Gopakumar C R
Date: 11-07-2023 16:21:31
Section Officer

M.Tech. in Translational Engineering

Government Engineering College Barton Hill

Thiruvananthapuram

Admissions- 2023-2024

TPLC

Introduction

Government Engineering College Barton Hill offers 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 Research and Professional Leadership Centre (TPLC) housed in the Government Engineering College Barton Hill. The centre works in close association and guidance from resource persons from the Indian Institute of Technology Madras, Indian Institute of Technology Bombay, Indian Institute of Technology Delhi, Technical University Delft, the Netherlands, 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 (APJAKTU). The total intake of the programme is 18.

Government Engineering College Barton Hill

Government Engineering College Barton Hill (GECBH) is one of the prominent engineering colleges in Kerala. The college offers five full time B.Tech. degree courses and six full time M. Tech. degree courses. In addition, the college conducts one-year Advanced Diploma in Automotive Mechatronics (ADAM) in association with M/s Mercedes Benz India. The college has collaboration with various industry partners such as Mercedes Benz, BOSCH Ltd, academic partners such as IIT Madras, and scientific and research organizations such as ISRO, CDAC, etc. The college has active MoU's 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 multidisciplinary 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 towards addressing the grand engineering challenges of the 21st 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 of 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 to mould students in such a way that they are able to operate effectively in an environment of change and be an active participant in all the sectors of the economy. It also works towards bringing a transformational change in the skill sets of engineers in Government Departments.

Translational Research and Professional Leadership Centre (TPLC)

Translational Research and Professional Leadership Centre (TPLC) at Government Engineering College Barton Hill Thiruvananthapuram, India, is working with a motto "Transforming Professionals to Transform the Nation". It is a promising research centre, which imparts interdisciplinary research skills, responsible engineering strategies, timeless leadership activities, self-awareness and integral education programs, visiting scholar programs. The centre also conducts workshops, training programs, internships and national seminars 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 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 minimum of 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, AIMST University in Malaysia, IIT Madras, IIT Bombay, IIT Indore, IIT Palghat, Sree Chitra Institute for Medical Sciences and Technology, Loyola College Trivandrum and Integrated Rural Technology Centre [IRTC], Mundur.

A memorandum of understanding between IIT Madras and TPLC has been signed on academic and research activities on the following categories.

- 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.

TPLC, GEC Barton Hill has also signed MoU's with Water and Power Consultancy Services Limited (WAPCOS) under the Ministry of Jal Shakti of the Government of India for resource sharing in project implementation. TPLC, GEC Barton Hill also signed a MoU with Central Polytechnic College, Thiruvananthapuram. The centre is also part of few upcoming Government projects like Nellikuzhy bridge construction, Akkulam rejuvenation project, Pollution abatement of Karamana river etc.

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 organizations 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.

M.Tech. in Translational Engineering

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.

2. Eligibility

(a) The candidates applying for admission to M.Tech. Translational Engineering programme should possess B.Tech. or any equivalent degree in any Engineering discipline from a University approved by AICTE. If the degree is from a University outside India, certificate of equivalency issued by Association of Indian Universities (AIU) is mandatory.

(b) 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/OEC candidates, a minimum CGPA equivalent to 55%* aggregate marks in the Engineering degree examination is mandatory. (*as prescribed by APJ Abdul Kalam Technological University)

(c) 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. (Relaxation if any as prescribed by APJ Abdul Kalam Technological University).

(d) Candidates who have appeared for the final semester examination can also apply, provided he/she has passed all the subjects up to and including the 6th semester exam. Confirmation of admission of such candidates shall be subject to the production of qualifying degree satisfying clauses (a) to (c) as applicable on or before October 31, 2023.

Note:
- Sponsored candidates from the Government Departments can apply for the programme through proper channel.
- The sponsored candidates, if they fail to qualify within the period specified in APJAKTU 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 their Department Head as to 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. Number 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. In case of any seat lying vacant due to absence of sponsored candidates, it will be converted to non-sponsored category.

(b) For sponsored candidates from Government departments the maximum age limit is **44 years**. (Not born before June 1st 1979). However, this age limit does not apply to the 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 differently abled candidates.

(g) Economically weaker section in general category (EWS)-10%

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4. Fees

The tuition fee for the Programme is Rs.45,000/- per semester for all categories (Additional fee like university fee, PTA fund, revenue etc. is applicable as per common norms of other M.Tech. programmes in the college).

5. Internships

For students undergoing Internships partial financial support will be provided as per the stipulated TPLC Internship guidelines.

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 candidates. The selection of candidates is done by an Admission Committee, consisting of experts from various disciplines, constituted by the Admin Committee of TPLC, GEC Barton Hill, headed by the Principal, GEC Barton Hill.

For sponsored candidates who wish to take admission in M.Tech. Translational Engineering, it is mandatory that they must submit a two-page proposal of an issue or a problem in their department or any social problems for which they will carry out the research and bring up the solution at the end of the course.

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 will be refunded 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, whichever applicable.

(b) If a student leaves after joining the course and if the vacated seat is consequently filled by another student before the last date of admission, the Institution will 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, whichever applicable.

(c) In case the vacant seat is not filled; the Institution should refund the security deposit and return the original documents.

(d) The Institution will not demand fee for the subsequent years from the students cancelling their admission at any point of time.

(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.

- 1 Fine for Non- Compliance of refund rules of the fee levied against each case shall be five times the total fee collected per student
- ꓶ Suspension of approval for NRI and supernumerary seats, if any for one academic year
- ꓶ Reduction in "Approved Intake"
- ꓶ No admission in one/more course (s) for one academic year withdrawal of approval for Programme(s)/Course(s)

8. Additional Requirements of M.Tech. Translational Engineering

(a) Departmental/Teaching Assistance for 6 hours/week for all students including sponsored candidates.

(b) Transformative programmes: Minimum two numbers for all students.

(c) Industrial visits: Maximum 5 days for the entire course.

(d) Socially responsible activities- Each student has to attend a mandatory socially relevant camp for minimum 5 days duration outside their home station involving in socially responsible activities and 5 days socially responsible activities in Trivandrum.

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(e) A minimum of six weeks mandatory internship at a reputed national/International Institute, reputed industries and startups supported by Government Engineering College Barton Hill. This is facilitated to expose the students to real-time projects and different working cultures and social problems, thereby moulding them into socially responsible professionals. Students will be sent for internships based on the assessment and approval of the TPLC institutional level committee.

(f) Three MOOC course of not less than 8 weeks duration.

(g) A compulsory on the job training will be facilitated under a Governmental/Non-Governmental Organisation/Industry spanning 3 months named the "Social Butterfly Programme", to address the ongoing and emerging global challenges and collective transformation of individuals through a technological, economical and cultural restructuring framework, after the final University exams.

9. Scholarships/Awards

(a) GATE Stipend for GATE qualified candidates

(b) Partial financial support for internships based on performance evaluation

(c) Best project award

(d) Best outgoing student award

(e) Merit scholarship as per TPLC guidelines for one student not availing any other scholarship.

10. Hostel facility available only for ladies (admission based on availability).

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

Important Dates

	*As per notification by Directorate of Technical Education/APJAKTU for the M.Tech. course of the current academic year
Last date for application	
Date of interview	
Publication of results	
Date of joining	
Admission closes on	*As per notification by Directorate of Technical Education/APJAKTU for the M.Tech. course of the current academic year
Commencement of classes	*As per notification by Directorate of Technical Education/APJAKTU for the M.Tech. course of the current academic year

All such information will be published in the website also.

http://www.tplc.gecbh.ac.in/

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How to apply

The application can be downloaded from the TPLC website *www.gecbh.ac.in* or *www.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 office, 4th Floor, Government Engineering College Barton Hill.
2. Online Banking – Account Name: TPLC
   Account No: 67314066447, IFS Code: SBIN0070415
   Bank & Branch: SBI Vikas Bhavan

Contact us

Co-ordinator
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