

**B.32) Medical Innovations (MI)**  
**[Medical Technology Research and Innovation Centre (MED-TRIC)]**  
**- New Programme from the AY.2026-27**

The Proposed PhD in Medical Innovations from MED-TRIC will offer a unique opportunity to incoming students to get the combined benefits of working in an Engineering Institute and a Medical College/Hospital on real life unmet medical needs that can be translated into medical devices/products/technologies through a unique Biodesign based structure offering students the advantages of an Interdisciplinary Collaboration through a Clinical Immersion process.

**Eligibility Criteria for Admission to PhD in Medical Innovations (Any category students allowed including TA, FA, RA, SW, PS)**

First Class or 60% marks (55% marks for SC/ST), as specified in the General Eligibility Criterion, in the qualifying degree:

(A) M.Tech./M.E / MDes (Science background)/MPharm or equivalent degree in Biotechnology, Biomedical Engineering, Chemical Engineering, Computer Science / Engineering, Electrical Engineering, Electronics/Telecommunications Engineering, Instrumentation Engineering, Mechanical Engineering, Metallurgical Engineering and Material Science, Engineering Physics, Optics / Optoelectronics / Photonics, Robotics, Robotics Engineering, Automation and Robotics, Mechatronics, Data Science and Artificial Intelligence, Data Science and Engineering, Artificial Intelligence, Engineering Sciences.

(B) MBBS with MD/MS, MVSc, MDS, MPT, MOTH, MS/MD Health sciences AYUSH

(C) B.Tech./B.E/BDes (Science background). or equivalent degree in Biotechnology, Biomedical Engineering, Chemical Engineering, Computer Science / Engineering, Electrical Engineering, Electronics / Telecommunications Engineering, Instrumentation Engineering, Mechanical Engineering, Metallurgical Engineering and Material Science, Engineering Physics, Optics / Optoelectronics / Photonics, Robotics, Robotics Engineering, Automation and Robotics, Mechatronics, Data Science and Artificial Intelligence, Data Science and Engineering, Artificial Intelligence, Engineering Sciences.

(D) M.Sc. or 5-year Integrated B.S.-M.S. program or equivalent degree in Life Sciences, Biochemistry, Biophysics, Biotechnology, Ceramics, Chemistry, Electronics, Ergonomics, Material Science, Mathematics, Molecular Biology, Physics, Bioinformatics, Data Science, Physiology, Cognitive Science, Neuroscience, Photonics / Optics / Optoelectronics.

(E) Health Sciences (such as MBBS (Medicine) / BDS (Dental), B.Pharm/B.V.Sc., B.P.Th., B.O.Th., B.ASLP, Pharma D (duration 4 years or more). Candidates with these backgrounds and degrees, should have qualified one of the following: All India level postgraduate entrance examinations for corresponding disciplines such as INI CET/NEETPG/NEET MDS/JIPMER/PGI Chandigarh/ AFMC-Pune/DNB Part I/AIIPMR for MBBS/ BDS, GPAT/ All India level selection examination for B.Pharm., All India level postgraduate entrance examination such as AIIPMR for M.V.Sc., M.P.Th., M.O.Th. and M.ASLP, GATE examination for all such health science background where applicable. Eligibility/rank certificates for all such All-India level entrance examinations are required. The candidate should have qualified in the entrance exam (as per the qualification criterion of the respective exam for that exam year and category), and the score obtained should be valid (as per the duration of validity for the respective exam) at the time of admission to the Ph.D. program.

Candidates with qualifying degrees in [C and D] must fulfill one of the following: a valid GATE score/CEED/UCEED (for TA/TAP/RA/RAP), a valid CSIR/UGC/DBT JRF, or a valid ICMR JRF (not linked to ICMR project), or any other fellowship that will provide scholarship for five years. For candidates with qualifying degrees as in (A) to (E), and applying under PS or SW category, experience [as specified in A.5 and A.6 in PhD brochure] is mandatory.

**Note: Criteria for awarding Teaching Assistantship and other application categories are as per the guidelines mentioned in section A.6 of this Brochure.**

#### Selection Procedure

The final selection process to Ph.D. programme will be through written test and/or interview as specified by the center.

A statement of purpose must be enclosed along with the application in the specified format in which the titles of topics of candidate's interest should be mentioned with a detailed justification how the candidate's academic background is suitable to pursue research in that area.

Please note that merely fulfilling eligibility criteria doesn't entitle a candidate to be called for the test and/or interview. The Center reserves the right to call for interview and/or written test only those candidates that are shortlisted on the basis of their qualification, academic background, statement of purpose and requirement.