



GE Skillbridge Program

(Innovating the healthcare Technology)

Postgraduate Diploma in Magnetic Resonance
Imaging Technology - PGDip (MRI-Tech)

Offered jointly with program partners of MR-India Consortium and Coordinated by
Kerala University of Digital Sciences, Innovation & Technology
(DIGITAL UNIVERSITY KERALA)









About DUK

Digital University Kerala (DUK) is a premier Institution established by Govt of Kerala as per Act 10 of 2021, and engages in post- graduate education with a focus on Innovation and Research in digital applications to Science, Technology and Liberal Arts. The educational model of DUK underpins promotion of entrepreneurship through innovation and research besides creation of opportunities for young graduates in Science and Technology to take up industry-relevant themes as part of various post-graduate learning and skill-set development programmes.

Program Insights

This program imparts industry-oriented training with a clear focus on Engineering/Technology & Clinical Development in the Magnetic Resonance Imaging (MRI) space. Knowledge level as a professional after completion of this course, is comparable to a Master's degree holder specialized in Medical Imaging Systems, or professionals serving in Medical Imaging industry with experience in Magnetic Resonance Imaging and MRI pulse sequence development.

Academic training at DUK prepares engineering graduates and post-graduates in science aspiring for a scientific career in medical imaging industry to take up Roles and Responsibilities for:






-  Developing and leveraging Clinical partnerships/projects in India and Asia pacific region in the MRI domain.
-  Gaining clinical insights in the workflow of radiologists and identify areas of collaboration to drive strategic research projects in MRI domain.
-  Leveraging prior subject matter expertise to frame & execute regional research policy/strategy.
-  Project management of clinical research activities including but not limited to framing clinical work statements and project proposals, as relevant.

Program Description






This program is spearheaded by Wipro GE Healthcare Private Limited and supported in-kind by the member institutions of the MR-India Consortium through two separate MoU with Digital University Kerala. The GE-Skillbridge program in MRI Technology is designed to train graduate students in Engineering and allied Sciences to provide support and co-develop innovative software and hardware solutions for clinically-driven problems in MRI Technology. This is designed as a one-year diploma program.

Students will undertake one semester of coursework that covers the required skill-set followed by an internship project at one of the partnering institutions during the second semester. Each semester will consist of 20 weeks of academic engagement. The last month of each semester will be dedicated for conduct of final assessments and continuation of project work or Thesis preparation.

The special Topics Project (STP) will be assigned to the students at the end of Semester-1, based on a ranking of their skill-set interests in MR Engineering, Quantitative MRI or Acquisition/Recon areas and relevance to the interests of the partnering institutions in engaging the selected students through an employment contact. The courses offered will focus on skill development in the areas related to:

-  Programming foundations in MATLAB and Python as part of Applied Medical Image analysis
-  Physics of MRI
-  Quantitative MRI
-  MRI Reconstruction/ Compressed Sensing
-  Pulse Sequence Programming

Five Reasons why you should register:

	01	Unique Instructional approach using simulations and promoting insight problem solving.
	02	Experiential learning through multiple internships at GE and other member Institutions of the MR-India Consortium (CDAC, SAMEER, NIMHANS and allied MR Technology Industries and start-ups)
	03	Opportunity to work as a team member in real-life MR Engineering problems on-site.
	04	Career opportunities at GE Healthcare and allied industries / start-ups focusing in MRI Tech.
	05	Opportunities for peer networking within the International Society for Magnetic Resonance in Medicine (ISMRM)

Eligibility Requirements

Bachelor's degree in any branch of Engineering or Master's degree in Mathematics, Statistics, Physics, Computer/Data Science, Medical Imaging Technology or related fields from a UGC recognized University with an aggregate minimum of 60% Marks or equivalent Grade-point Average (GPA/CGPA). Undergraduate level knowledge in programming languages (Python or MATLAB) through relevant courses, or by an individual project is necessary to be eligible for admission. Undergraduate level knowledge of mathematics is also required in Algebra, Calculus and Probability theory.

Admission Procedure for Sponsored Candidates

Candidates sponsored by an industry/partnering institution shall provide a letter of reference issued by the parent organization at the time of application. The eligibility criteria for sponsored candidates are the same as that for regular candidates.

Online Admission Test

An online admission test covering the fundamentals of linear algebra, calculus and probability theory will be used to screen the candidates. The short-listed candidates will be required to appear for an on-campus interview. A detailed syllabus for the test is made available on the application portal. Candidates with a Gate cut-off above 90 percentile, or valid GRE score above 250 are exempted from appearing for the online admission test. Exemptions need to be obtained in advance by emailing the copies of relevant self-attested certificates to pgdipmi@duk.ac.in with Subject line as "Exemption GATE" or "Exemption GRE". Certificates that do not show the Scores will not be considered for exemption from SAT. Queries/Issues related to the portal or admission process may also be shared via the same mail id.

Program Fee Structure (Regular)

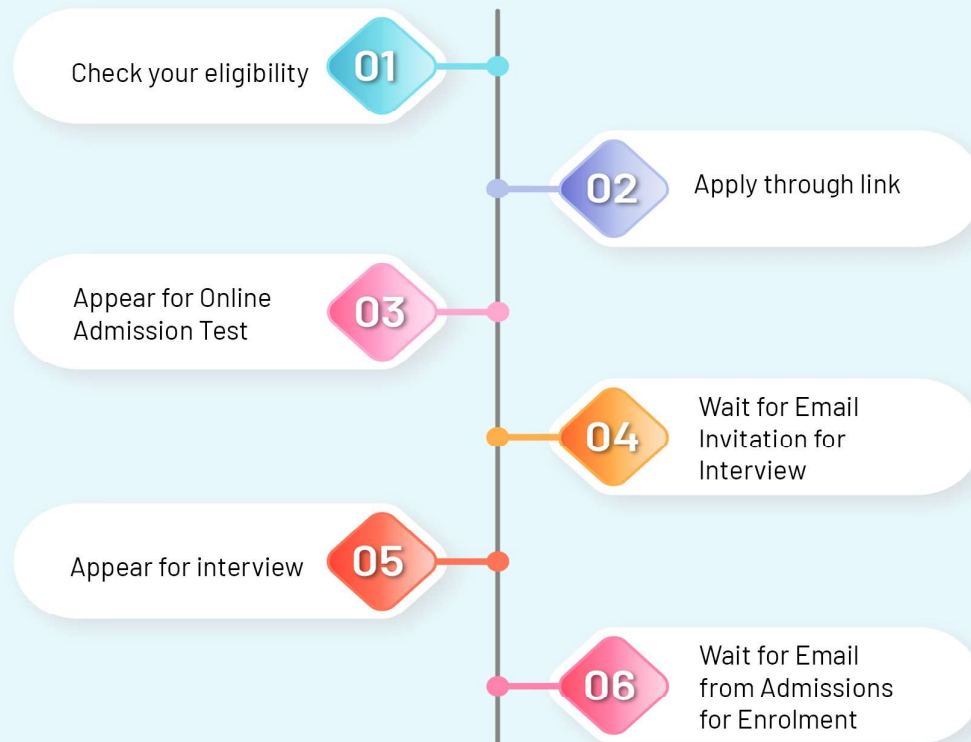
Head	Payment Schedule	Amount
Course Fee	Onetime payment at the time of Enrolment	40,000
IT Expenses	End of Semester-1	10,000
Career Advisory Services	End of Semester-1	5,000
Grand Total		55,000

Program Fee Structure (Sponsored)

Head	Payment Schedule	Amount
Course Fee	Onetime payment at the time of Enrolment	60,000
IT Expenses	End of Semester-1	10,000
Grand Total		70,000

Enrolment Process

Final Selection will be done jointly by DUK, Wipro-GE Healthcare, CDAC and SAMEER based on the interview score.



Important Timelines

Application Submission: **15 January 2024 to 15 April 2024**

Online Admission Test: **21 April 2024**

Interview Dates: **01 May 2024 to 15 May 2024**

Enrolment and Commencement of Classes: **First week of June 2024**

How to apply

Candidates should first click the link <https://duk.ac.in/soi/site-Course/> to access the Application portal. Application should be made online by creation of a Login and Password.