

Ph.D. Program - July Admission 2024-25 Batch 1

Manipal Centre for Natural Sciences (MCNS)

Centre of Excellence

Manipal Academy of Higher Education (MAHE)

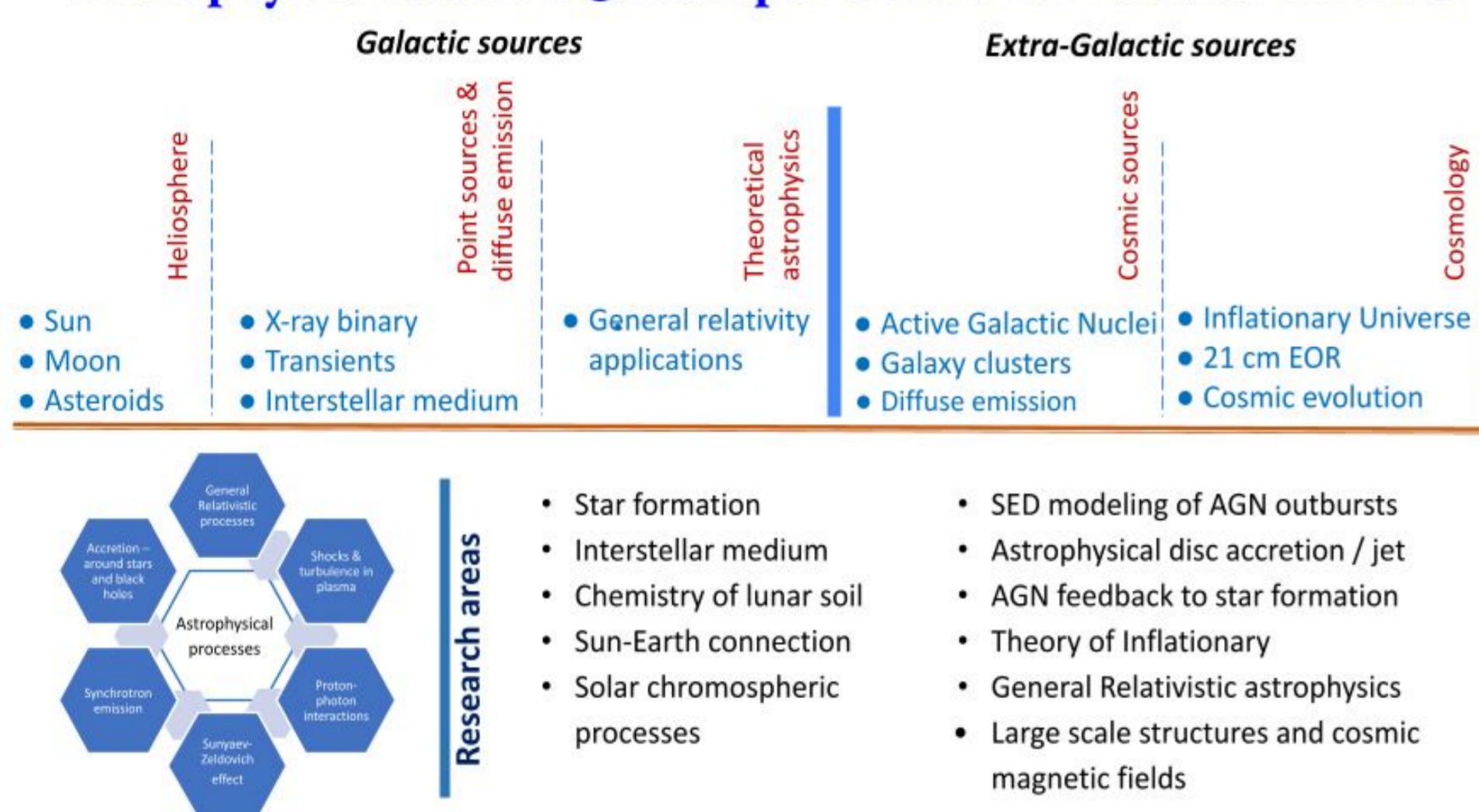
Application deadline - May 25th 2024

Manipal Centre for Natural Sciences

Manipal Centre for Natural Sciences (MCNS) is a “Centre of Excellence” at Manipal Academy of Higher Education dedicated to the pursuit of fundamental research. MCNS offers a regular PhD program for those who completed a Master's degree, and an integrated Ph.D. program for those who completed a Bachelor's degree (BSc/BE/BTech). The objective of both programs is to nurture researchers who will work in the forefront areas of natural sciences. The procedure for applying to the **regular Ph.D. program** is explained below.

Astrophysics Research in MCNS

Astrophysics research @ Manipal Centre for Natural Sciences



Ph.D. Projects Offered in 2024-25

Offered research areas and topics in the current call

PHYSICS

Sun and heliosphere:

1. Heating of solar atmosphere during active region evolution

Extragalactic Astronomy and Cosmology:

2. Study of accretion and outflow in the vicinity of a black hole by multi-band spectral and temporal analysis
3. A study of the nuclear regions of active galaxies with multiband observations and associated modelling
4. Probing warm hot intergalactic medium (WHIM) in cosmic filaments by studying Interacting galaxy clusters

Computational Astrophysics:

5. Cosmological parameter estimation through identification and quantification of structures and voids in the Universe

Particle Physics:

6. Investigation of Beyond Standard Model (BSM) Physics through the window of low energy precision observables

CHEMISTRY

Computational Chemistry:

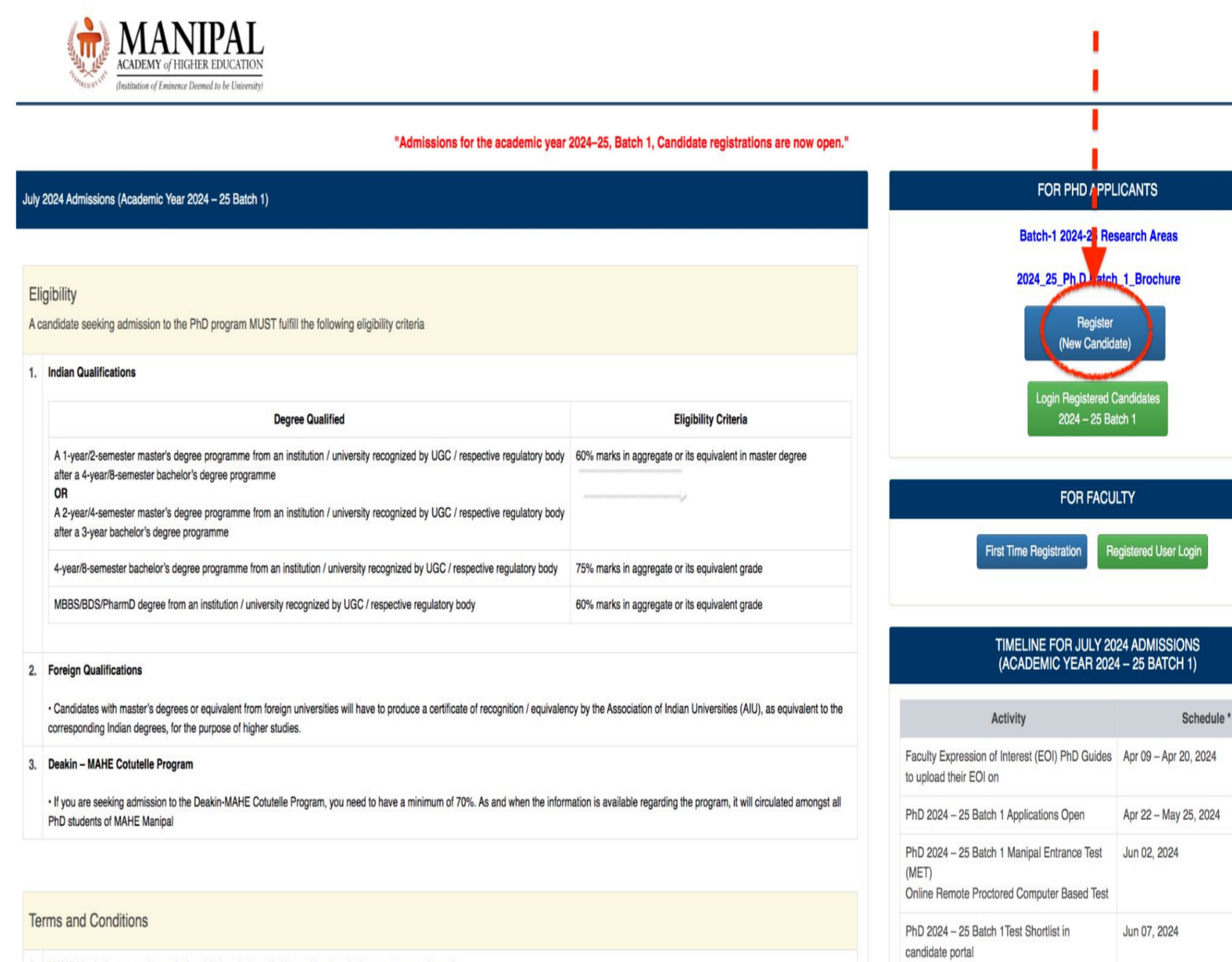
7. Magnetism and spin selectivity of chiral molecules

Online Application

Step 1: Go to the MAHE Ph.D. portal

<https://mahephd.azurewebsites.net/#no-back-button>

Step 2: Select the “Register (New Candidate)” option



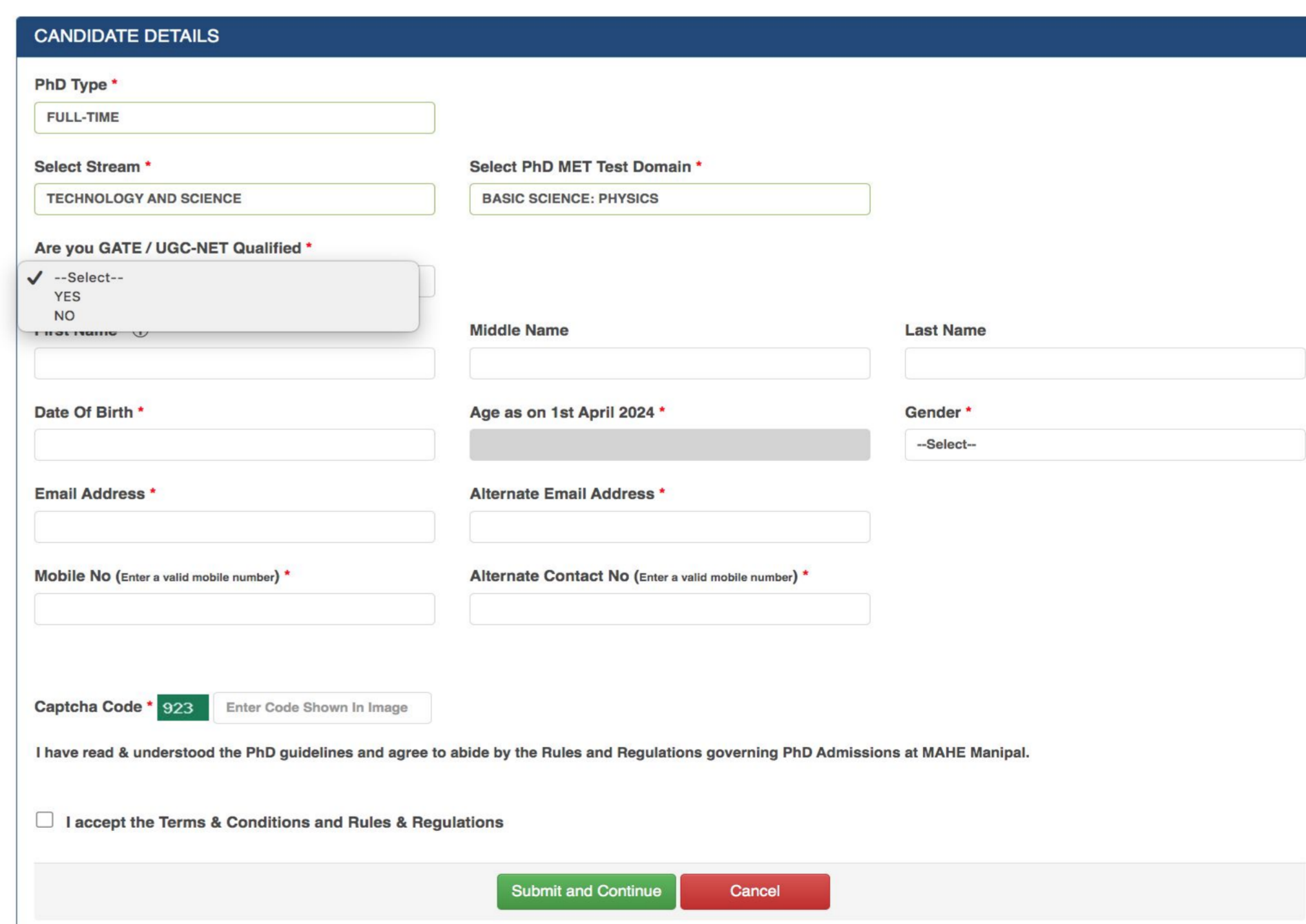
The screenshot shows the MAHE Ph.D. portal interface. It includes a navigation menu for PHD/APPLICANTS with options for 'Register (New Candidate)' and 'Login Registered Candidates'. A 'FOR FACULTY' section includes 'First Time Registration' and 'Registered User Login'. A 'TIMELINE FOR JULY 2024 ADMISSIONS' table lists activities and their schedules.

Activity	Schedule *
Faculty Expression of Interest (EOI) PHD Guides to upload their EOI on	Apr 09 – Apr 20, 2024
PHD 2024 – 25 Batch 1 Applications Open	Apr 22 – May 25, 2024
PHD 2024 – 25 Batch 1 Manipal Entrance Test (MET)	Jun 02, 2024
Online Remote Proctored Computer Based Test	
PHD 2024 – 25 Batch 1 Test Shortlist in candidate portal	Jun 07, 2024

All candidates (except GATE/UGC-NET qualified) are required to qualify the PhD Manipal Entrance Test (MET) in Basic Sciences (Physics/Chemistry).

Filling the Registration Form

- PhD Type – Full Time
- Select Stream – Technology and Science
- Select PhD MET Test Domain – **Basic Sciences (Physics/Chemistry)**



The screenshot shows the 'CANDIDATE DETAILS' registration form. Fields include: PhD Type (FULL-TIME), Select Stream (TECHNOLOGY AND SCIENCE), Select PhD MET Test Domain (BASIC SCIENCE: PHYSICS), Are you GATE / UGC-NET Qualified (YES), Date of Birth, Age as on 1st April 2024, Gender, Email Address, Alternate Email Address, Mobile No, and Alternate Contact No. A captcha code is also present. At the bottom, there is a checkbox for 'I accept the Terms & Conditions and Rules & Regulations' and buttons for 'Submit and Continue' and 'Cancel'.

After this step, you will be directed to the payments page for completion of the application

You will receive an acknowledgement with application no. for future reference

For further details, please refer to the brochure at:

https://mahephd.azurewebsites.net/pdf_2024/2024_25_Ph%20D%20batch_1_brochure_V13.pdf

For further queries, please contact the MCNS office:

Phone: 0820 292 3571

Email: office.mcns@manipal.edu

Faculty Webpage :

<https://www.manipal.edu/mcns-manipal/department-faculty.html>

