



LEADERS IN ENVIRONMENT AND SUSTAINABILITY EDUCATION

ACCREDITED WITH 'A' GRADE BY NAAC

DEEMED TO BE UNIVERSITY UNDER SECTION 3 OF UGC ACT

**Degree in
B.Sc/
Integrated M.Sc
in Biotechnology**



About TERI School of Advanced Studies

TERI School of Advanced Studies (TERI SAS) was established as a Trust in 1998 and was granted a "Deemed to be University" status in 1999 by Ministry of Human Resources Development, Department of Education, Government of India. Its overall mission is to create new knowledge through research and contribute to the discourse on sustainability at national and global level. The Academic programmes at the TERI SAS are developed around the global challenges of sustainability which have arisen due to the increasing needs of mankind combined with limited and ever-diminishing natural resource base.

The solutions therefore do not lie in a specific subject discipline but must be appropriate and relevant to the context or the practical problem being addressed. Developing such an understanding among its students is best achieved through exposure to a variety of subjects, tools, and methodologies offered in interdisciplinary mode. This has been the guiding philosophy behind the programmes offered by the TERI SAS and is practiced by building a theoretical understanding in courses covering a variety of traditional disciplines, such as ecology, natural and social sciences, governance, policy and law.

During their academic tenure, the students converge upon a few areas of focus based upon their interest, having been exposed to a new way of thinking that looks at problems not from the lens of a subject specialist, but from the perspective of one who recognizes the complex linkages between man and environment. The campus also provides opportunities for interdisciplinary interactions among the students which inculcate the culture of collaboration and a problem-solving aptitude through day-to-day activities. The University offers two MA programmes, one in Public Policy and Sustainable Development, and the other in Sustainable Development Practice. The TERI SAS is one of a select group of 22 institutions chosen worldwide by the MacArthur Foundation, USA, to run the Sustainable Development Practice programme.

Apart from doctoral programmes, TERI SAS offers post-graduate programmes such as M.Sc. in Biotechnology, Environmental Studies and Resource Management, Economics, Geoinformatics and Climate Science and Policy, LL.M. (Environment and Natural Resources Law/Infrastructure and Business Law), MBA (Sustainability Management) and M.Tech. (Renewable Energy Engineering Management). TERI SAS also offers two MA programmes, one in Public Policy and Sustainable Development, and the other in Sustainable Development Practice. TERI SAS is one of a select group of 22 institutions chosen worldwide by the MacArthur Foundation, USA, to run the Sustainable Development Practice programme.

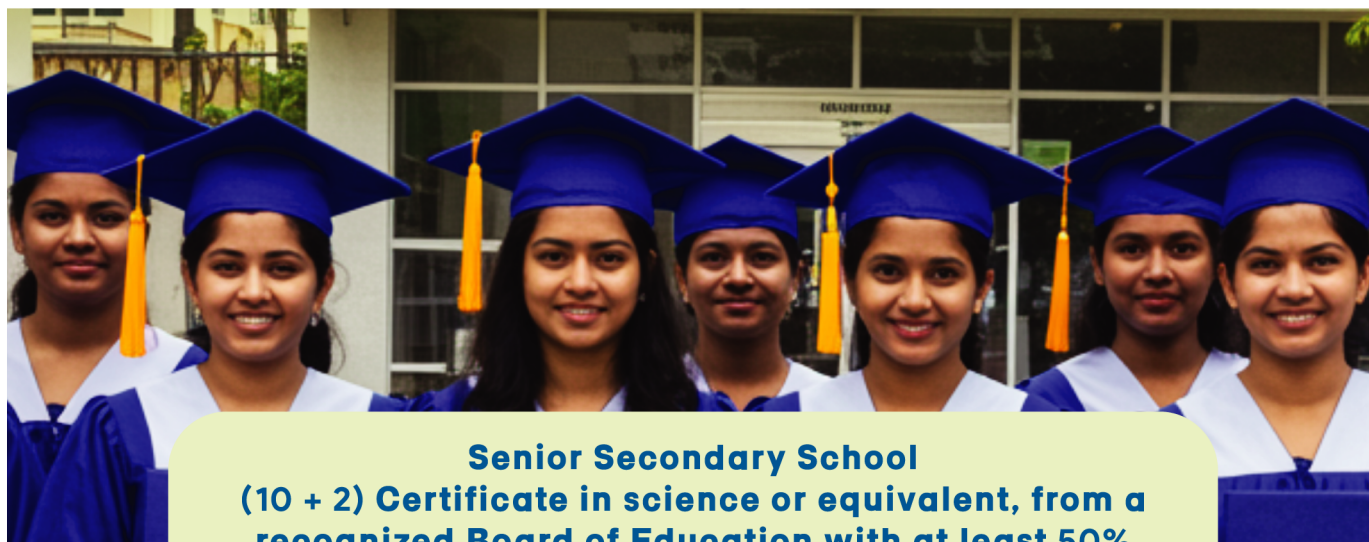
The University uses modern pedagogical tools, richly supplemented by field visits, live industry projects, and hands-on applications. It provides the very best in equipment and instruments, which includes state-of-the-art computer facilities, well-equipped laboratories, video-conferencing facilities, and access to South Asia's most comprehensive library on energy and environment.

TERI SAS has established excellent partnerships and collaborative arrangements with a number of institutions overseas, including Deakin University, Australia, Yale University, USA; The Freie University of Germany; Utrecht University, The Netherlands; North Carolina State University, USA; and University of Technology, Australia.

Department of Biotechnology

The Department of Biotechnology at TERI School of Advanced Studies (TERI SAS) is committed to advancement of Biotechnology research and contributing to goals of Sustainable Development by way of knowledge dissemination and capacity building. The aim is to cater to national requirements in the field of energy, agriculture, healthcare and environmental sectors. The Department offers a range of research-led academic programmes at several levels with flexible multiple entry and exit options of Four-year Undergraduate Programme (FYUP) and Five-year Integrated PG Programmes (FYIPP). Our academic programmes are aligned to national curriculum and credit framework as prescribed by UGC, Government of India, under the aegis of NEP 2020. Further, the students also get exposure to commercial aspects of Biotechnology by way of active collaboration with TERI adjunct-faculty who are primarily engaged in Applied and Industrial Research. Such opportunities enhance the employability of students by equipping them with skills in demand. The first M.Sc. (Plant Biotechnology) programme was started in 2008 with seed grants from the Department of Biotechnology, Government of India. The programme was restructured in 2021, as M.Sc. Biotechnology with two specializations, namely, Microbial biotechnology and Plant biotechnology. From academic session 2025, the Department is set to offer FYUP and FYIPP in Biotechnology. The programme provides a unique option to have Major in Biotechnology with any one of three Minor streams, namely, Environmental Studies, Data Science and Business Administration.

Students enrolling in our academic programmes are exposed to an academically stimulating and interdisciplinary environment. Significant emphasis is given to hands-on laboratory training, and original, critical and creative thinking. Doctoral students may choose to carry out their research in areas such as mammalian cell culture and disease modelling, microbial pathogenesis, plant developmental biology, plant molecular breeding and structural & molecular biology. Further, students may also choose to carry out their research projects in the research facilities of TERI in fields as varied as sustainable agriculture, environmental bioremediation and biofuels to name a few.



**Senior Secondary School
(10 + 2) Certificate in science or equivalent, from a
recognized Board of Education with at least 50%
marks in aggregate**

ELIGIBILITY CRITERIA

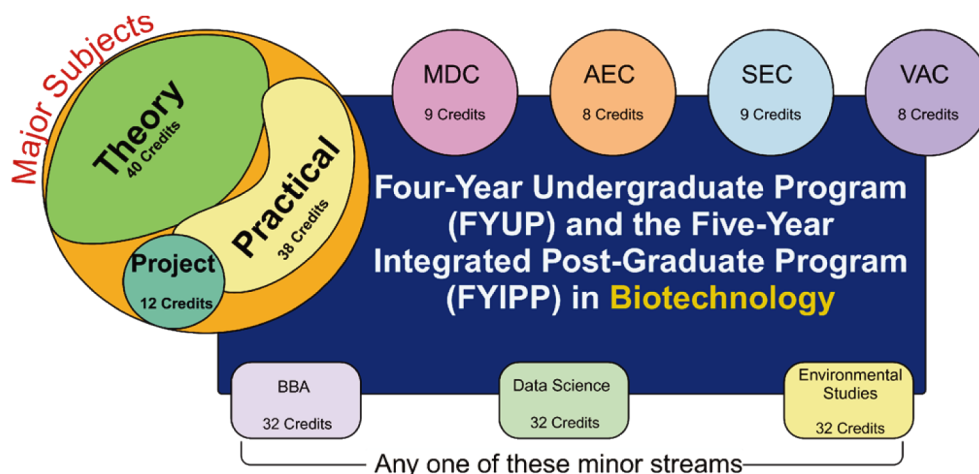
Aggregate marks obtained in the qualifying Senior School Examination, followed by interaction /counselling / CUET-UG score in specific subjects / general test / NEET score / JEE Mains score.

SPECIAL ATTRIBUTES

The programme has been designed in accordance with the National Education Policy (NEP) 2020 and the recent guidelines issued by the University Grants Commission with in-built options of Multiple Entry and Multiple Exit mapped with employability opportunities.

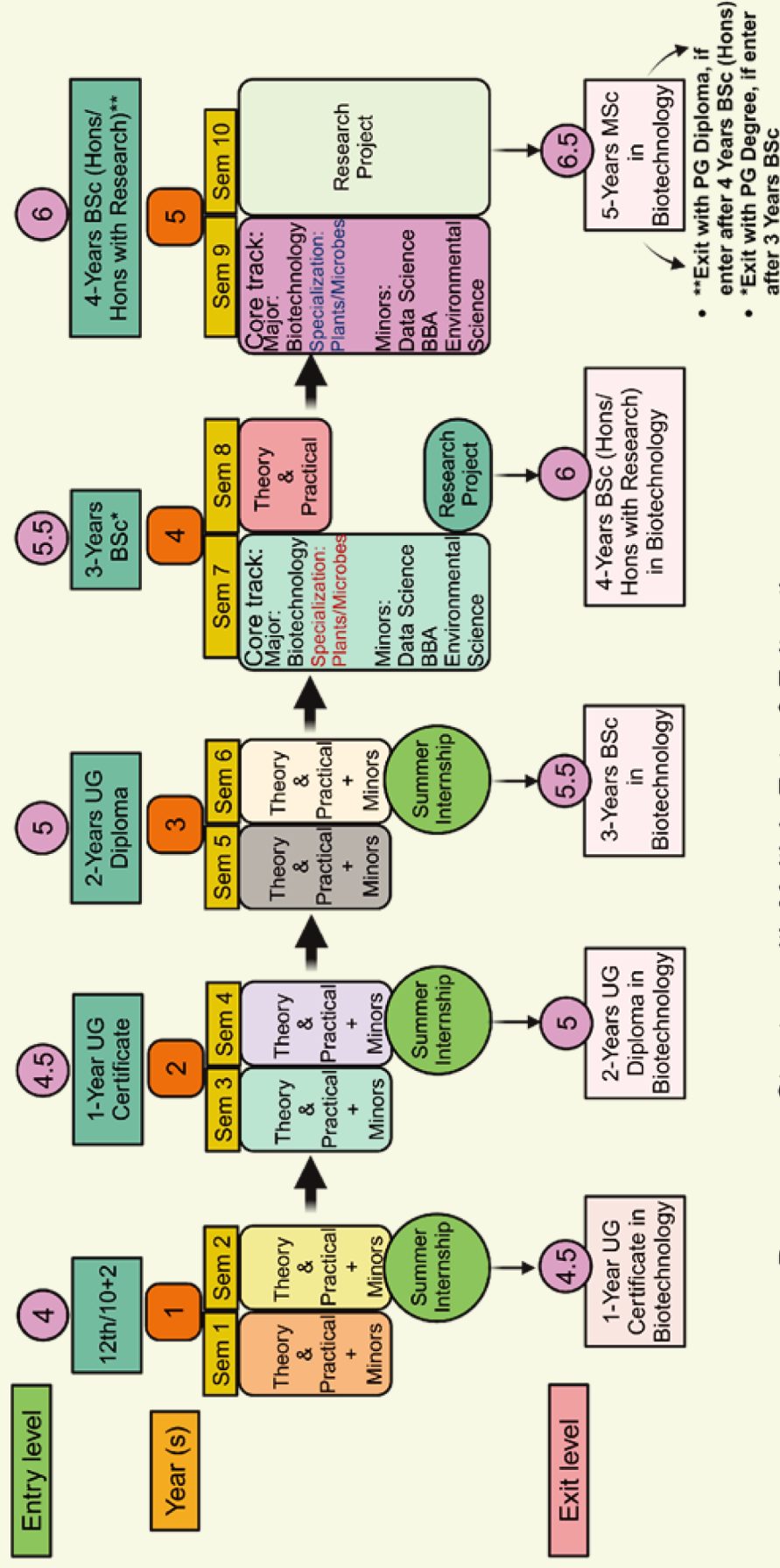
SALIENT FEATURES OF THE PROGRAM

- Lab-intensive programs with hands-on training in well-equipped teaching and research laboratories at TERI SAS.
- Emphasis on problem-solving skills for Biotechnological innovation.
- Capacity-building for entrepreneurship, startups and ESG.
- Interface with Biotechnology and policy research at TERI, particularly related to sustainable development goals.
- Multi-disciplinary minor options available in Business Administration, Environmental Studies and Data Science.
- Aligned with the National Education Policy 2020 as well as sectoral National Missions.
- Opportunities for undertaking interdisciplinary research projects in academia and industry.
- Final placement in academia, government, industry and NGOs.



Degree in Biotechnology

TERI SAS aims to create a skilled cadre of Biotechnology professionals, while maintaining quality parameters at par with current requirements in academia, industry and allied professions. The proposed program leading to an integrated Masters's degree aims to provide students with an understanding of advanced concepts and techniques in Biotechnology, while promoting inter-disciplinary and holistic skill development and learning that contributes to the attainment of sustainable development goals.



Programme Structure with Multiple Entry & Exit options



LIMITED SLOTS AVAILABLE FOR
SCHOLARSHIPS

CAREER OPPORTUNITIES

Research and Development in academic and research institutions engaged in biotechnology research. Industries such as pharmaceuticals, seed companies, breweries and dairy. Further career options exist in forensic and diagnostic centers, regulatory and funding bodies, law firms, and knowledge processing offices involved in Intellectual Property (IP) management.



Unlock Your Future

with

**TOP PLACEMENTS & PRESTIGIOUS INTERNSHIPS IN
LEADING ACADEMIA, INSTITUTIONS AND INDUSTRIES**

**Programme
Details**



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terischool

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Contact Us



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