



## PROSPECTUS OF POST GRADUATE ACADEMIC PROGRAM

### Overview

The Institute offers post graduate degrees for the professionals and fresh graduates with the objectives of training and enhancing the knowledge and skills in planning and management of land and water resources, and widening their perspectives on Integrated Water Resources Management (IWRM). Since IWRM is a multi-disciplinary process, a multi-disciplinary course curriculum is pursued in the program to generate holistic understanding of water resources systems with a good blend of engineering, agricultural, socio-economic and environmental analyses. The diversity of background of the students provides a unique learning opportunity through exchange of ideas and information within a group having the same goal but different perspectives and experiences.

### Degrees Offered

- Ph.D.
- M.Sc. in Water Resources Development [M.Sc. (WRD)]
- Post Graduate Diploma in Water Resources Development [PG.Dip. (WRD)]

### Admission Requirements

Degree	Requirements
Ph.D.	The minimum qualification for admission shall normally be an M.Sc. Engg./M. Engg. degree in Civil Engineering/Water Resources Engineering/ Environmental Engineering/ Agricultural Engineering or M.Sc. degree in Water Resources Development or its equivalent from any recognized institution.
M.Sc. (WRD)	An applicant must have either a four year Bachelor's degree in Civil Engineering/Water Resources Engineering/Agricultural Engineering/Urban and Regional Planning/ Environmental Science/Environmental Science and Management/Soil, Water and Environment/Geography and Environment/Geology/Disaster Management or its equivalent having a minimum GPA of 2.5 out of 4.0 or PG. Dip. (WRD) or its equivalent having a minimum GPA of 2.65 out of 4.0 from any recognized institution.
PG.Dip. (WRD)	Applicant must have either a four year Bachelor's degree in Engineering/ Agriculture/Physical Science/Biological Science/Environmental Science/ Urban and Regional Planning/Economics/Agricultural Economics or an equivalent degree from any recognized institution. An applicant not having a four year Bachelor's degree must have a Master's degree with honors.

### Academic Requirements

Degree	Requirements
Ph.D.	The minimum duration of the Ph.D. course shall be 4 semesters from the date of provisional admission. A student must complete all requirements for the Ph.D. degree within 6 academic years (session) from the date of her/his provisional admission.  A student must complete a minimum of 54 credit hours of which 45 credit hours shall be assigned for a thesis.
M.Sc. (WRD)	The minimum duration of the M.Sc. (WRD) program shall be 3 semesters. A student must complete all the requirements for the degree within 5 academic years (session) from the date of the first admission in the program.  A student must earn a minimum of 36 credit hours including a thesis for which 18 credit hours shall be assigned.

PG.Dip. (WRD)	<p>The minimum duration of the PG. Dip. (WRD) course shall be 2 semesters. A student must complete all the requirements for the diploma within 3 academic years (session) from the date of her/his first admission in the program.</p> <p>A student must earn a minimum of 24 credit hours including a project for which 6 credit hours shall be assigned.</p>
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## Post Graduate Courses

Degree	Courses
Ph.D. / M.Sc. (WRD)	<p>WFM 6000: Thesis</p> <p>WFM 6002: Special Studies</p> <p>WFM 6101: Alluvial River Processes</p> <p>WFM 6102: Advanced Watershed Hydrology</p> <p>WFM 6103: Hydrologic Information System</p> <p>WFM 6104: Water, Gender and Society</p> <p>WFM 6105: Water and Ecosystem</p> <p>WFM 6201: Hazards and Risk Analysis</p> <p>WFM 6202: Remote Sensing and GIS in Water Management</p> <p>WFM 6203: Environmental Economics</p> <p>WFM 6204: Hydrologic Statistics</p> <p>WFM 6205: Hydrologic Design for Water Use</p> <p>WFM 6206: Groundwater Resource Assessment</p> <p>WFM 6207: Water Resources System Analysis</p> <p>WFM 6208: Choice of Water Management Technology</p> <p>WFM 6209: Interdisciplinary Field Research Methodology in Water Management</p> <p>WFM 6301: Agricultural Water Management</p> <p>WFM 6302: Water Development Project Planning</p> <p>WFM 6303: Integrated Water Resources Management</p> <p>WFM 6304: River and Floodplain Management</p> <p>WFM 6305: Coastal Zone Management</p> <p>WFM 6306: Urban Water Management</p> <p>WFM 6307: Water Control Structures</p> <p>WFM 6308: Risk Management</p> <p>WFM 6309: Water Quality Management</p> <p>WFM 6310: Water Disaster Management</p> <p>WFM 6311: Climate Change Risk Management</p>
PG.Dip. (WRD)	<p>WFM 5000: Project</p> <p>WFM 5101: Watershed Hydrology</p> <p>WFM 5102: Soils and Soil Water</p> <p>WFM 5103: Hydrogeology and Groundwater</p> <p>WFM 5201: Data Management and Statistical Analysis</p> <p>WFM 5202: Socio-economic Analysis</p> <p>WFM 5203: Environmental Analysis</p> <p>WFM 5204: Survey in Water Resources Projects</p> <p>WFM 5205: Principles of Hydraulics</p>

## Student Status

There are two categories of students, namely, full-time students and part-time students. Full time students must registrar for a minimum of 12 credit hours and a maximum of 15 credit hours per semester. A full-time student shall not be allowed to be in employment of any organization (even as part-time employee). However, they may be employed as teaching / research assistant at the University. A student may enroll as a part-time student. Students, serving in different organizations, may also be admitted as part-time students with written consent of the employer. A part-time student may be assigned a maximum of 9 credit hours of course including thesis / project work in any semester.

## Financial Assistance

Financial assistance in the form of fellowship and research assistantship are often provided to students. When such awards are intended for incoming students, then this is announced during admission process in newspapers/Institute notice board/Institute website. Prospective students may have to apply for fellowship and research assistantship along with their application for admission. Financial assistance are also provided to continuing students. In such cases, financial assistance are offered to regular students of the Institute who are in good academic standing.

## Contact

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