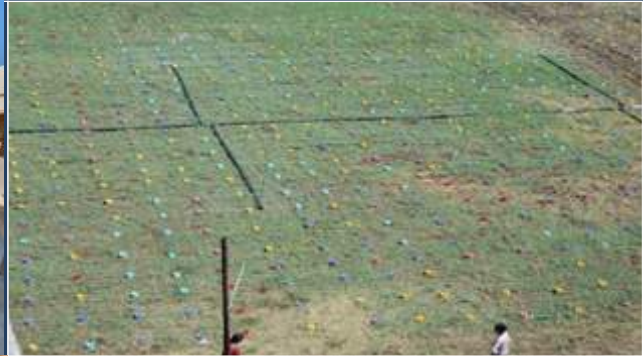




**WATER RESOURCES ENGINEERING AND MANAGEMENT INSTITUTE**  
**FACULTY OF TECHNOLOGY & ENGINEERING**  
 The Maharaja Sayajirao University of Baroda  
 Samiala – 391 410



**Vision**

To be one of the premier institutes in education, research and consultancy in the field of water resources engineering and management and to play a leading role in the development of our nation.

**Goals**

To develop Water Resources Engineering and Management Institute as one of the best institutes in the field of Water Resources Engineering and Management in India at the end of 2035.

**Mission**

To build a solid foundation of fundamentals by integrating a variety of project experiences in preparing the curriculum. To imbibe expertise in our graduates in field problem solving with abstract thinking skills. To encourage and support the faculty members and students for research and consultancy work.

**Objectives**

To make the Department a centre of excellence by providing latest technical know how to the students, engineers and researchers. To consolidate various research activities. To consolidate and develop the department as the foremost Institute in the field of Watershed Development and Management.

Establishment 1991	Teaching Staff 8	TCD cum Demonstration Farm 3 ha	Library 3150+ Books
Laboratory 6	Computer Laboratory 2	Seminar Hall Capacity – 100	Conference Hall Capacity – 40
Girls Common Room 1	Facilities Completely WiFi enabled campus	Completed Research Projects 12	Completed Consultancy Projects 8
Ph.D. Scholars 9 completed 7 ongoing	Awarded PG Degrees M.E. (Civil) in IWM – 150 M.E. (Civil) in WRE – 131	Awarded UG Degrees B.E. (Civil-IWM) – 641	Collaborations IISC, IITs, NITs, Central/State Govt. Depts., NGOs
Books published 8	Book Chapters published 32	National Awards 28	International Awards 5
Papers in Journals 74	Papers presented at International Level 109	Papers presented at National Conference 113	Programmes conducted 34

## Curricula

**Under Graduate Programme:** The Institute offers U.G. course leading to a degree of B.E. (Civil-IWM). Qualifying percentage for admission to this course is 55% at H.S.C. The intake is 38. The course covers most of the Civil Engineering subjects and also the subjects of Irrigation Water Management such as Engineering Hydrology, Ground Water Hydraulics, Soil & Water Conservation Engineering, Water Resources Engineering, Irrigation Management, Irrigation Engineering, Design of Irrigation Distribution Systems, Drainage Engineering for Irrigated Agriculture, Construction Planning and Management, Design Project in Water Resources Engineering.

**Post Graduate Programme:** The institute offers two P.G. courses leading to a degree of M.E. (Civil) Irrigation Water Management and M.E. (Civil) Water Resources Engineering. Both the courses have the intake of 23. The courses cover the following subjects:

<p><b>M.E. (Civil) Irrigation Water Management</b></p> <ul style="list-style-type: none"><li>★ Irrigation Network Planning</li><li>★ Irrigation Engineering</li><li>★ Operation Research in Irrigation Water Management</li><li>★ Advanced Computational Techniques in Irrigation Water Management</li><li>★ Surface Irrigation Systems</li><li>★ Pressurized Irrigation Systems</li></ul> <p>and any four subjects from the following electives</p> <ul style="list-style-type: none"><li>★ Introduction to Agronomy and Soils</li><li>★ Design of Water Control and Flow Measurement Structures</li><li>★ Farm Management</li><li>★ Groundwater Development and Management</li><li>★ Irrigation Management</li><li>★ Computer Aided Design in Water Resources Engineering</li><li>★ Watershed Management</li><li>★ Drainage and Salinity Control</li></ul>	<p><b>M.E. (Civil) Water Resources Engineering</b></p> <ul style="list-style-type: none"><li>★ Hydrologic Modelling</li><li>★ Water Resources Planning</li><li>★ Computer Aided Design in Water Resources Engineering</li><li>★ Water resources Systems Engineering</li><li>★ Operations Research in Water Resources Engineering</li><li>★ Advanced Computational Techniques in Water Resources Engineering</li></ul> <p>and any four subjects from the following electives</p> <ul style="list-style-type: none"><li>★ Computer Aided Canal Operation</li><li>★ Computer Aided Reservoir Operation</li><li>★ Open Channel Hydraulics and Model Studies</li><li>★ System Analysis in Water Management</li><li>★ Hydraulics in Sediment Transport</li><li>★ Computational Hydrology</li><li>★ Groundwater Development and Management</li><li>★ Irrigation Network Planning</li></ul>
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**Ph.D Program :** The institute offers two Ph.D. Programs leading to a degree of Ph.D. in Civil Engineering and Ph.D. in Irrigation Water Management.

## Process for Admission to Various Programmes

Admissions to Undergraduate & Postgraduate Engineering Programmes (B.E. & M.E.) are carried out by Admission Committee for Professional Courses (ACPC), Ahmedabad. For details, please visit the following websites :

<http://www.jacpldce.nic.in> OR <http://www.gujacpc.nic.in>

Admissions to BE programmes are based on 12<sup>th</sup> and GUJCET scores

Admissions to ME programmes are based on GATE / PGSET scores

Admissions to Ph.D. programmes are based on GATE / PET scores

### For further details contact :

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