



**Ajith Edathoot**  
**Center for Technology Alternatives for Rural Areas**  
**Indian Institute of Technology, Bombay**  
**Specialization: Technology and Development**

**10335005**  
**M.Tech.**  
**Male**  
**DOB: 03-08-1987**

Examination	University	Institute	Year	CPI / %
Post Graduation	IIT Bombay	IIT Bombay	2011	8.86
Undergraduate Specialization: Biotechnology Engineering				
Graduation	University of Calicut	MET's School of Engineering, Thrissur	2009	75.24
Intermediate/+2	CBSE	Chinmaya Vidyalaya, Thrissur	2005	75.66
Matriculation	CBSE	Chimaya Vidyalaya, Thrissur	2003	87.00

#### ACHIEVEMENTS & AWARDS

##### **International Climate Champion, British Council - Mass movement towards sustainability (2009)**

- Amongst **50 selected** (from all over India) for pioneering global **climate security projects** promoting youth involvement.
- Organised climate awareness events in colleges in Kerala and volunteered for many events organised by British Council, New Delhi

**Ranked 2<sup>nd</sup>** in the First Year of M.Tech at Centre for Technology Alternatives for Rural Areas (CTARA)

#### KEY ACADEMIC PROJECTS

Currently working on the topic '**Assessment of non-point source water pollution due to agricultural practices**' under Dr. Bakul Rao. [2011-12]

- A detailed study of water pollution due to chemical agriculture, understanding both the practices and the governing policies along with a multi-criteria analysis of ex-situ remediation technologies for treating nitrate pollution.

'**Ganga Action Plan – A review of the technological and institutional failures**' in First Year, M.Tech Seminar course. [2010]

- Studied the shortcomings in technology selection and management of various activities of the immediate pollution load reduction programme of the Govt. Of India.

Worked on '**Bioremediation of Endosulfan contaminated soil using Microbial Bio-cultures**', as B. Tech Dissertation topic. [2008-09]

- Indigenous micro organisms were isolated from endosulfan contaminated sites of Kerala which were mass produced. The ability of soil pollution remediation by using consortium of these organisms was established through pilot scale sample studies.

Worked on '**Extraction Phycocyanin from *Arthrospira platensis***' as minor project during B. Tech. [2008]

- Various processes for extraction of a high value pigment from Spirulina was carried out and compared.

#### EXPERIENCE

Completed six months of **Biotech Industrial Training Programme** sponsored by Dept. of Biotechnology, Govt. Of India, New Delhi at Pelican Biotech & Chemical Labs, Kochi

- Carried out wet lab research in developing value added products from local industrial wastes
- Obtained firsthand experience in formulation, scale up and marketing for organic agricultural inputs

Completed two months of **rural internship** at Wayanad district, Kerala with the NGO-Uravu on Developmental Prospects of Vellithode, Meppadi Panchayath, Wayanad, Kerala [9<sup>th</sup> May- 15<sup>th</sup> July 2011]

- Studied the sustainability and development trends of a village by using social science research methodologies and system dynamics.
- Worked independently in bringing out data and analysis in an unorganised system and successfully modelled it with sufficient accuracy.
- Field visits to various NGOs and institutions working in the development sector for understanding and observing their way of operation

#### SKILL SETS

- Project Management, Environmental Impact Assessment, Life Cycle Assessment, System Dynamics, Analytical Hierarchy Process, Participatory Rural Appraisal, Data Interpretation and Analysis

## COURSE PROJECTS

Currently pursuing the project “**Re-restoration of Powai Lake**” in Project Management and Project Analysis

- Detailed Project Report (DPR) preparation for the topic involving the use of Project Management tools like Fishbone diagram, Gantt chart, PERT, CPM, LFA, etc using Open Proj software

Part of a 5 member team in conducting Participatory Rural Appraisal for studying **Multi-Village Water Scheme** in Anjap village, Karjat. [4<sup>th</sup> -6<sup>th</sup> March 2011]

- Studied the social incompatibility of the scheme and brought out the local requirements, challenges and possibilities along with social consciousness.

‘**Paper consumption, wastage and recycling for Academic Purpose at IITB**’ - Learnt sampling, questionnaire surveying and analysis in “Social Science Research Methods and Systems Dynamics”.

Studied ‘**Nisargruna Technology for Biogas**’ with respect to performance and economic aspects as course project in “Energy Sources and their Utilization”.

## SEMINARS/ WORKSHOPS ATTENDED

- Workshop on “**Environmental Impact Assessment**” held at IIT Bombay, *September 2010*.
- Attended **IIT Alumni Climate Change Initiative Roundtable**, 29<sup>th</sup> January 2011 at IIT Bombay.
- Attended International Symposium on Industrial Biotechnology – Biovision -08, at Sahrdaya College of Engineering & Technology, Thrissur
- Presented a paper on DNA Computers in the National Level Intercollegiate Students Seminar – Biobliss -07 on Modern Biological Science organized by SNMV College of Arts & Science, Coimbatore.

## ADVANCED COURSES IN MASTER OF TECHNOLOGY

- **CTARA:** Environmental Systems Assessing and Monitoring, Energy Sources and their Utilization, Appropriate Technology, Analysis of Technologies in Practice, Public Policy and Governance in Technology and Development, Project Management and Project Analysis, Agro-based Industries: Design and Case Studies, Soil, Land Use, GIS and Agriculture
- **Centre for Environmental Science and Engineering:** Biological Treatment Technologies

## POSITIONS OF RESPONSIBILITY

**Department Placement Co-ordinator**, CTARA, Institute Placement Team, IIT Bombay [2011-12]

- One among 40 members of the team responsible in mapping the company’s requirements and the skills of the students along with co-ordination of department level preparatory activities.

**Treasurer**, Technology & Development Students Association (TDSA), IIT Bombay [2011-12]

- Handling of accounts and finance of events co-ordinated by the students and alumni association of CTARA.

**Secretary** of Biotechnology Students Association, MET’s School of Engineering, Thrissur, Kerala [2008-09]

- Leader of a student body consisting more than 200 members through various events during the year. The team excelled by putting up an international conference, a biotechnology awareness exhibition and became the best department in overall extracurricular activities by winning sports and arts titles.

**Student Co-ordinator of Verve 2009** – International Conference on Microbial Biotechnology at MET’s School of Engineering, Thrissur, Kerala

- First of its kind organised by the institute. It included a technical symposium along with an awareness exhibition targeted for the general public

**Student Placement Co-ordinator**, MET’s School of Engineering, Thrissur, Kerala [2007-08]

- Responsible for the preparatory activities of a batch of about 200 students and co-ordinated about 15 campus placement drives.

**Volunteer Secretary** of college National Service Scheme Unit from [2007-2009]

- Played active role in setting up the college National Service Scheme unit and co-ordinated its work for 2 years

## EXTRA-CURRICULAR ACTIVITIES

- Represented the department in various PG Sports events like Basketball, Volleyball and Cricket.
- Junior Editorial Board Member of Scholars Research Journal – an open access journal in the field of life sciences
- Co-ordinated 10 day camp for the National Service Scheme Volunteers carrying out various social and developmental activities at Echipara, a tribal village in central Kerala. [2008]
- Participated and won prizes in various musical events at school and undergraduate level for singing and violin.