

CONTENTS

Introduction

The Civil Engineering Department was established in the year 1965 and is now recognized as one of the leading departments with infrastructure and facilities to match the very best in the country. The department provide students with the fundamental knowledge and problem solving skills in the field of Civil Engineering required for a fulfilling career and to create and disseminate knowledge to improve Civil Engineering research, education and practice.

The Civil Engineering Department of the Institute has produced so many technocrats who are serving the country as well as successfully settled in abroad. The department has been involved with so many research works and produced some excellent outcome. The department is presently associated different developing activities as well as innovation of construction materials. Some of the faculty members are coordinating different technical bodies of the state, Tripura and the region. The department presently acting as the State Referral Institute (SRI) for Water Quality Monitoring of the state. The department is acting as State Technical Agency (STA), Tripura constituted by National Rural Road Development Agency (NRRDA), New Delhi for scrutiny of the Detail Project Report (DPR) of the Pradhan Mantri Gram Sadak Yojana (PMGSY). The department is also acting as the State Resource Institute for Earth Quake and Disaster Mitigation and Management of the state.

Faculty members of the department always keep in touch with organisations like ONGC, State PWD, CPWD, Rural Development Department, Housing Board-Tripura, Agartala Municipality, NEEPCO, MES, BRTF, NBCC, NPCC, Agartala Airport Authority and other private and public construction firms for exchanging different technical views. Faculty members utilise their wide exposure and goodwill with the different organisations for giving better placement of the students in various sectors. Department of Civil Engineering is very keen in sorting out the current technical demands of the industry and students are moulded as the current demands.

Department of Civil Engineering intakes 60 (sixty) students per year in the first semester of the four year Under Graduate Degree course and 10 (ten) students per year in the first semester of the two year Post Graduate course in Structural Engineering.

The Department has 15 (fifteen) nos. permanent faculty members. Almost all the faculties are involved with different research, consultancy and developmental works along with administrative activities of the Institute. The faculties of the department frequently conduct different seminars in the emerging issues of the present technical development and share their knowledge among themselves and outside personalities.

CONTACT US

Prof. Manish Pal,
Assistant Professor & Head,
Department of Civil Engineering
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Programmes

The department currently offers the following programmes,

- **B.Tech in Civil Engineering (4 years: 8-semesters)**
- **M.Tech in Structural Engineering (2 years: 4-semesters)**
- **Ph.D.Programmes**

Faculty:

Prof. Manish Pal

Designation: Assistant [Professor & Head](#)
Qualification: B.Tech., M.Tech. (Highway and Traffic Engg)
Area of Interest: Transportation Engineering, Public health Engineering
Research Area: Traffic Engineering,
Traffic Planning
Urban Transport Planning
Pavement Subgrade analysis
Water quality of Urban areas



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Dr. Umesh Mishra

Designation: Professor


Qualification: B.E, M.E, PhD.(Environmental Engg)

Area of Interest: Environmental Engg, Water Resource Engg

Research Area: Water Quality
Waste analysis
Engineering Hydrology

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Contact No +919436926569



Dr. R.P.Sharma

Designation: Assistant Professor


Qualification: B.E, M.Tech, PhD.(Structural Engg)

Area of Interest: Structural Mechanics, Dynamic stability.

Research Area: Dynamic friction phenomenon,
Dynamic stability of Blocky rock mass,
High strength concrete

Email: richisharma@yahoo.com

Contact No +919436463474



Prof. S.K.Pal

Designation: Lecturer (SI Grade)


Qualification: B.E, M.Tech, PhD.(Submitted)

Area of Interest: Geotechnical Engineering, Soil dynamics.


Research Area: Soil-structure interaction,
Environmental Geotechnique,
Pile foundation,


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Prof. Ratul Das

Designation:	Assistant Professor (On leave under QIP)	
Qualification:	B.E, M.Tech, PhD.(Pursuing)	
Area of Interest:	Water Resource Engineering.	
Research Area:	Scour Depth Analysis, Earthquake Analysis of Building, Flood forecasting, <input type="text"/>	
Email:	ratul@rediffmail.com	

Prof. Mrs Rama Debbarma		
Designation:	Assistant Professor (On leave under QIP)	
Qualification:	B.E, M.Tech, PhD.(Pursuing)	
Area of Interest:	Structural Engineering,	
Research Area:	Structural Engineering High Performance Concrete, <input type="text"/>	
Email:	dbarma.rama@rediffmail.com	

Prof. Mrs Lipika Halder		
Designation:	Lecturer (Sr. Scale)	
Qualification:	B.E, M.E.	
Area of Interest:	Structural Engineering,	
Research Area:	Structural Dynamics, Wind structure interaction Seismic vulnerability study of existing structures <input type="text"/>	
Email:	erlhalder@yahoo.co.in	
Contact No	+919436167076	

Prof. Mrs Sima Ghosh		
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Designation: Lecturer
Qualification: B.E, M.Tech, PhD (Pursuing)
Area of Interest: Geotechnical Engineering
Research Area: Dynamic Analysis of Machine Foundation
Earthquake Analysis of Rigid Retaining Wall,
Soil Dynamics



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Prof. Rajib Saha

Designation: Lecturer
Qualification: B.E, M.C.E
Area of Interest: Geotechnical Engineering
Research Area: Negative Skin Friction in Pile
Behavioral study of clay,
Foundation Engineering



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Contact No +919436125024

Prof. Gopi nandan Dey

Designation: Lecturer
Qualification: B.E, M.Tech (Pursuing)
Area of Interest: Structural Engineering
Research Area: High performance concrete,



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gopindeg@yahoo.com

Contact No +919863147658

Prof. Joyanta Pal

Designation: Lecturer
Qualification: B.Tech, M.Tech (Pursuing)
Area of Interest: Structural Engineering
Research Area: Behaviour of concrete using rice husk-ash



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Prof. Nilotpal Debbarma

Designation: Lecturer
Qualification: B.E,
Area of Interest: Water resource Engineering
Research Area:



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Partha Pratim Sarkar

Designation: Lecturer
Qualification: B.Tech, M.Tech
Area of Interest: Transportation Engineering
Research Area: Travel demand forecasting ,
Pavement Construction using locally available material



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Dipankar Sarkar

Designation: Lecturer

Qualification: B.E,

Area of Interest: Transportation Engineering

Research Area:
Utilization of Tide land in Manufacturing of Bricks



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dipankarnita@gmail.com

Contact No +919436459655

Deb dulal Tripura

Designation: Lecturer

Qualification: B.E,

Area of Interest: Traffic Engineering

Research Area:
Assessment of Highway Traffic Noise,
Study of Traffic Characteristics



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dhin@rediffmail.com

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Facilities:

Civil Engineering Department is well equipped with the following laboratories. The laboratories are exclusively used for the routine laboratory classes of the students, routine testing, consultancy, research and developmental works for the external clients.

1. Soil Mechanics Laboratory
2. Structural Engineering Laboratory
3. Concrete Laboratory
4. Transportation Engineering Laboratory
5. Environmental Engineering Laboratory
6. Solid Mechanics Laboratory
7. Surveying Laboratory
8. Engineering Geology Laboratory
9. Civil Engineering Computer Laboratory
10. Water Resources Engineering Laboratory

These laboratories are well equipped with many sophisticated instruments like Non-destructive testing instruments, UTM, UV Spectro Photometer, Tilting Channel, Benkelman Beam, Bump Integrator, Digital Marshal, Total Station, Hand GPS, load pad etc and Softwares like GIS, MX Road, STAAD Pro, Ansys, Auto CAD etc. which support the classes of the students, different research and consultancy activities of the department.

The Department is having a departmental library. The important books, Journals and civil engineering codes like IRC codes, IS codes, laboratory manuals can be easily accessible from this library.

List of Instruments in Soil Mechanics Laboratory

Sl. No.	Name of Instruments	Quantity
1.	Field Density Measuring Apparatus (Sand Replacement and Core cutter, rapid moisture meter)	1 set each
2.	Proctor Compaction Testing Apparatus	3 set
3.	Triaxial Test Apparatus (Digital)	1 set
4.	Consolidation testing apparatus (Single gang)	2 set
5.	Atterberg's Limit Apparatus	1 set
6.	CBR Testing Apparatus	1 set
7.	Direct shear test apparatus complete set, electronic	1 set
8.	Relative density measurement apparatus	1 set
9.	Electric oven	1 set
10.	Permeability Test apparatus complete set	1 set

List of Instruments in Structural Engineering Laboratory

Sl. No.	Name of Instruments	Quantity
1.	Load Frame with load control unit for 10 hydraulic jacks	1 set
2.	Prestress loading unit	2 set

3.	Strain Bridge with strain gauge and Strain Rossette	1 set
4.	Mechanical strain gauge	2 set
5.	Beam and Slab testing arrangements	1 set
6.	Data Logger and Data Acquisition System for Bridge sensor	1 set
7.		

List of Instruments in Concrete Laboratory

Sl. No.	Name of Instruments	Quantity
1	340 00 202 DIGI-SCHMIDT 2000 Concrete Tester	1 set
2	Laboratory Cement Autoclave	1 set
3	Flexural Testing machines	1 set
4	340 00 202 DIGI-SCHMIDT 2000 Concrete Tester	1 set
5	Electronic Balance, capacity 600gx0.01g, pan size 116 mm dia	1 set
6	Mortar Mixer capacity 4.75 ltr	1 set
7	Vibration machine with built-in digital counter and timer NCCBM calibrated	1 set
8	Mould for Flexural Prism, steel, three compartments 40x40x160 mm	1 set
9	Vicat's Apparatus	4 sets
10	Compacting Factor Apparatus	1 set
11	Cement Tensile testing Apparatus	1 set
12	Needle Vibrator	1 set
13	Slump Test apparatus	2 sets
14	Flow Table Apparatus	1 set
15	Vibrating Table	1 set
16	200 tonnes Compression Testing Machine	1 set

17	Digital Weighing Machine (Least count 1 gm)	1 set
18	Platform type balance, 300 Kg Capacity	1 set
19	Concrete Mixer	1 set
20	Triple Hinged Beam balance	1 set
21	Digital compression Testing Machine, 2000 KN Capacity	1 set
22	Flexural strength Testing Machine of mortar, 4KN Capacity	1 set
23	Apparatus for measuring longitudinal strain and lateral strain	1 set each

List of Instruments in Transportation Engineering Laboratory

SI No.	Name of Instruments	Quantity
1.	Aggregates Impact testing apparatus	1 set
2.	Deval Abrasion testing setups	1 set
3.	Los angles Abrasion testing setups	2 set
4.	Flakiness and Elongation gauge	8 sets
5.	Sand replacement and core cutter apparatus	1 set
6.	Pycnometer for specific gravity etc.	2 set
7.	Marshal mix design apparatus	2 set
8.	Standard Tar Viscometer	2 set
9.	Softening point testing setup (Ball and Ring apparatus)	1 set
10.	Ductility testing setup	12 set
11.	Viscosity (Saybolt) testing setup	1 set
12.	Pensky Martin flash point apparatus	2 set
13.	Bitumen Penetrometer	1 set

14.	California Bearing Ratio (CBR) Apparatus, Field and Laboratory both type	5 sets
15.	Centrifuge Bitumen Extractor	2 sets
16.	Dean & Stark apparatus with condenser	1 set
17.	Automatic Compactor for Bituminous Mixes	1 set
18.	Accelerated Curing Tank for Boiling water method	1 set
19.	Automatic Compactor for Bituminous Mixes	1 set
20.	Benkelman beam	1 set
21.	Merlin	1 set
22.	Bump Integrator	1 set
23.	Falling weight deflectometer	1 set

List of Instruments in Survey Laboratory

SL No	Name of Instruments	Quantity
1	Electronic Total Station	4 Nos
2	Standard Vernier Theodolite	3 Nos
3	Hand GPS	3 Nos
4	Transit Vernier Theodolites	7 Nos
5	Tacheometric Theodolite	01 No.
6	Dumpy Level	5 Nos
7	Prismatic Compass	6 Nos
8	Plane Table	10 Nos
9	Alidate	6 Nos
10	Trough Compass	18 Nos

List of Instruments in Strength of Materials Laboratory

SI No.	Name of Instruments	Quantity
1.	Universal Testing Machine	2 sets
2.	Brinell Hardness Test apparatus	1 set
3.	Brinell cum Vickers Hardness tester	1 set
4.	Pendulum Impact Tester	1 sets
5.	Wath maker's Lathe portable Type	1 set

List of Instruments in Water Resource Laboratory

SI No.	Name of Instruments	Quantity
1.	Self Recording rain Gauge	1 set
2.	Non Recording Rain Gauge	1 set
3.	Electronic Anemometer	1 set
4.	Rain Gauge (Symon Type)	1set
5.	Wind Vane Apparatus	1 set
6.	Open Pan Evaporimeter	1 set
7.	Magnetic Current meter	1 set
8.	Standard glass sided tilting flow channel	1 set

List of Instruments in Environmental Engineering Laboratory

SI No.	Name of Instruments	Quantity
1	UV /VIS Spectrophotometer	1 set
2	Microprocessor Controlled Portable pH Meter.	1 set
3	Microprocessor Controlled Portable Conductivity Meter .	1 set

4	Portable Turbidimeter	1 set
5	Microprocessor Controlled Portable DO Meter	1 set
6	P ^H meter, Micrometer Based	1 set
7	Bacteriological Incubator	1 set
8	Digital Turbidimeter	1 set
9	Microprocessor based DO Meter	1set
10	Digital Photo Colorimeter	1 set

[Research](#)

On-Going Projects

Project Title	Start date	Completion date	Project cost	Sponsoring organisation
Study of Retaining wall under seismic loading Condition (PI: Dr. R. P. Sharma & Mr. Sima Ghosh)	1.04.2009	31.03.2012	Rs. 13.50 lakhs	AICTE
Seismic Vulnerability study of Existing Structures in Agartala City (PI: Dr. R. P. Sharma & Mrs. Lipika Halder)	1.04.2009	31.03.2012	Rs. 11.00 lakhs	AICTE
Analysis of Dynamic Travel Behaviour using Panel Data: A Case Study of Agartala (PI: Sri Partha Pratim Sarkar)	1.04.2009	31.03.2012	Rs. 10 lakhs	AICTE
Strength, Durability and Ductility study of Concrete using locally available material (PI G. N. Dey & Joyanta Pal)	1.04.2009	31.03.2012	Rs. 10 lakhs	AICTE

Geotechnical Study of fly ash mixed with natural geotextiles and locally available materials (PI S.K.Pal)	1.04.2009	31.03.2012	Rs. 10 lakhs	AICTE
Modernisation of Civil Engineering Lab under Civil Engineering Department (PI Manish Pal & Rajib Saha)	31.03.2009	31.03.2011	Rs. 10 lakhs	AICTE
Modernisation of Surveying Lab under Transportation Engineering Department (PI Dr. Umesh Mishra & Dipankar Sarkar)	31.03.2009	31.03.2011	Rs. 12 lakhs	AICTE

Completed Projects

Project Title	Start date	Completion date	Project cost	Sponsoring organisation
Manufacturing of bricks using Tilla soil (Laterite soil) (PI: Mr. Manik Barman & Dr. R. P Sharma)	2004	2006	Rs. 40000.00	Pollution control Board, Govt of Tripura
MODROBS Laboratories under Civil Engineering Department (Prof S.K.Pal)	2002	2004	Rs. 10 lakhs	AICTE, New Delhi
Behaviours of Reinforced Earth and Effect of Geofabric ties in Different Foundation Structures (Prof S.K.Pal) NB: This project is partially completed	2002	2005	Rs. 10 lakhs	AICTE, New Delhi
Low cost urban houses with ferro-cement (Prof M Das, Prof A. B. Sengupta & Mr. R. P.Sharma)	1985	1988	Rs. 1.0 lakhs	Science & Tcchnology Dept. Govt of Tripura.

				T.E.College
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Publications

- 1) Ghosh A. and Pal S. K. (22-23 May, 2009). "Stabilized fly ash as construction material". Proceedings of the National Seminar on Emerging trends in Ground improvement, Kolkata, Indian Geotechnical Society, Kolkata Chapter. pp.74-78.
- 2) Pal, M., Majumdar, K., Barman, M. and Sarkar, D. (2009) "*Study of CBR and Electrical Conductivity of Soil- Jute Mixture*", International Conference on pavement Engineering, 14th – 15th February, 2009 College of Engineering & Technology, Bhubaneswar pp 39-43.
- 3) D.Tripura. "*Highway Traffic Noise and its Impact in Agartala City, India*", International Conference on Pavement Engineering CET, Bhubaneswar, India, 2009, pp.237-242.
- 4) D.Tripura et.al., "*Road Traffic Noise in Relation to Average Traffic Speed, Traffic Volume and Carriage Width*". Student Symposium on "Research in Civil Engineering", IIT Madras, 2009, pp. 36-37.
- 5) Ghosh, S., Ganguly, K. and Roy, S. (2009), "*Pseudostatic Analysis for Stability of Slope under Earthquake Loading*", CIVERE-2009, IIT Kanpur, 22nd Feb to 24th Feb' 2009.
- 6) Mishra U. and Bhowmik S. (2009), "*Modelling of Nickel Adsorption with Municipal Sludge Through Surface Complex Formation*" Journal the world academy of science, engineering and technology volume number 39 march 2009 ISSN :2070 -3740 pages 372-375.
- 7) Mishra U. and Pal S. K. (2009) "*A review of Beneficial uses of Various wastes produced from the industries in the construction of low volume highways*" Proceeding of the International Conference on Pavement Engineering held on 14th & 15th February 2009, pp 154-161.
- 8) Pal, S.K. (2008) "Application of Natural Geotextiles in the Field of Geotechnical Engineering Construction" 17th Annual General Meeting-2008, The Institution of Engineers (India), Agartala Local Centre, Agartala, Tripura, Dated: 28-09-08.
- 9) Ghosh, S., Dey G. N. and Datta, B. (2008), "*Pseudostatic Analysis of Rigid Retaining Wall for Dynamic Active Earth Pressure*", 12th International Conference of International Association for Computer Methods and Advances in Geomechanics, 1-6 Oct, 2008, Goa, India, pp 4122 – 4131.

- 10) Tripura, D. "*Assessment of Highway Traffic Noise Pollution and its Impact in and around Agartala, India*" National Conference on Advances in Civil Engineering, MAEER's MIT Pune, India, 2008, PP 57-60.
- 11) Pal, M. and Barman, M., "*Study of CBR of Soil-Jute Mix and its application in Rural Road*", "National Conference and Exposition on Rural Roads, 22-24, May, 2007, Bigyan Bhawan, New Delhi.
- 12) Das, R. "*Planning for protection against natural Disasters*" Journal of IBC, Vol. 14, No.- 1, 2007. National Seminar held at Vigyan Bhawan, New Delhi, May 17 – 19, 2007, PP: 62-72.
- 13) Mishra U. (2007) "*Control Of Corrosion And Scale In Water Supply Pipes*" Proceeding of the National Seminar on the Recent Advances in Civil Engineering held in 1st and 2nd March in CET Bhubaneswar Edited by Allied Publishers, New Delhi, pp 235-238
- 14) Pal, M. and Barman, M., "*Prediction of Traffic Signal and Vehicular Delay of a Four Legged Road Intersection: A Case Study*", National Conference on Emerging Technology and Development in Civil Engineering, 22-23, March, 2007, Govt. College of Engineering, Amravati, pp: vi29- vi36
- 15) Barman, M., Pal, M., Roy, R.B. and Biswas, H., "*Application of GIS in Soil Characterisation*", *International Conference on Civil Engineering in the New Millennium: Opportunity and Challenges (CENeM)*", 11-14, January, 2007, Bengal Engineering and Science University, Shibpur, West Bengal.
- 16) Pal, M., Bhattacharya, P.G. and Barman, M., "*Study of Strength and Curing of Soil-Cement Mixture*", *International Conference on Civil Engineering in the New Millennium: Opportunity and Challenges (CENeM)*, 11-14, January, 2007, Bengal Engineering and Science University, Shibpur, West Bengal,
- 17) Ghosh, S. and Saran, S., "*Pseudo-static Analysis of Rigid Retaining Wall for Dynamic Active Earth Pressure*", *International Conference on Civil Engineering in the New Millennium: Opportunity and Challenges (CENeM)*, 11-14, January, 2007, Bengal Engineering and Science University, Shibpur, West Bengal
- 18) Saha, R., Mukherjee, S.P. and Bhattacharjee, P., "*Pull out capacity of square anchors (Experimentally) in Reinforced clay*", *International Conference on Civil Engineering in the New Millennium: Opportunity and Challenges (CENeM)*, 11-14, January, 2007, Bengal Engineering and Science University, Shibpur, West Bengal.
- 19) Saha, R., Mukherjee, S.P. and Niyogi, A.G., "*Study of Pull out capacity of square anchors in Reinforced clay*" IGC, 2006, IIT Chennai, Dec 14-16, 2006.

- 20) Barman, M. and Pandey, B.B. (2006) "*A Simple Algorithm for Evaluation Rural Road using Falling Weight Deflectometer*", Highway Research Bulletin, IRC, New Delhi. Vol-75, pp-69-75.
- 21) Saha, S., Saha, A., Barman, M., Sharma, R.P. and Pal, M., (2006) "*Manufacturing of Bricks using Local Tilla Soil*", NIRMAN, 7th Bi-ennial General conference, State Engineers Association, Tripura, pp:20-28.
- 22) Sarkar, P.P & Mazumdar, M (2006). "*Use of over-burnt brick aggregate in pavement Construction*", Indian Highways, Vol. 34, no 9, September 2006 Page 49-56.
- 23) Pal, M and Barman, M. (2005) "*Prediction of Remaining Life of an Existing Rotary Intersection: A Case Study*", National Conference on Application and Communication Technologies in Urban Infrastructure Planning and Management, Jaya Engineering College, Chennai, India, pp: 70-75.
- 24) Mishra U. (2005), "*Environmental Impact Assessment of Highway Projects*" Proceeding of the Annual session of the Indian Road Congress held on 12th to 15th Nov,2005 in Bhubaneswar, pp 118-122.
- 25) Mishra U., Bandyopadhyaya, M., (2005) "*Kinetics Of Heavy Metals Uptake By Municipal Waste Sludge*" Proceeding of the National seminar on the Waste Management in Chemical and Allied Industries the held in 1st and 2nd March,2005 in NIT Rourkela , pp 257-264
- 26) Sharma, R. P. & Majumdar, S. (2004). "*Reliability Against Rock Fall Hit*", Course Notes on Short term course on Soil Dynamics and Earthquake Engineering at Department of Civil Engineering, IIT- Kharagpur, July 6-11, 2004, 14-11.
- 27) Mishra U. (2004) "*Environmental Impact assessment of hydropower projects*" Proceeding on Seminar on Environment, held in IBCS Bhubaneswar on 6th May 2004
- 28) Sharma, R. P. & Majumdar, S. (2003). "*Micro-mechanical Theory of Friction*", Structural Engineering Convention, SEC2003, IIT Kharagpur, 548-599.
- 29) Saran S. and Ghosh, S (2003), "*Dynamic Response of Embedded Block Foundation under Seismic Loading Condition*", IGC-2003, Geotechnical Engg. For Infrastructural Development, Dec. 18-20, 2003, Roorkee, pp 93 -98.
- 30) Mishra U., Patra K .C and Sahoo,P.K., (1997) "*Environmental Impact assessment of water resources projects*" Proceeding of the National seminar

on Management of Environmental aspects of Water Resources and hydropower development held in Bhubaneswar on 7-8, Aug. 1997 by Society of Power Engineers and CBIP.

- 31) Mishra U., Sahoo, P. K., (1997) "*Removal of copper metals by biosorption from industrial effluents*" Proceeding of the National convention in Environmental Engineering held on 27-29 September 1997 at REC Rourkela , pp 114-116.
- 32) Mishra U., Mishra, S.C., (1997) "*A software package to replace C L Diagrams*" Proceeding of the National convention in Environmental Engineering held on 4-6 December 1994 at REC Rourkela.
- 33) Mishra U. (1996) "*Optimization of Lagooning system for the treatment of wastewater*" Proceeding of the International convention of Operation Research Society of India held on 22-24 December 199 at IIT Bombay, Ref 25.

Training Programmes organised by the Department

Civil Engineering Department has organised several training programmes for the Engineers of different organisations, Technical persons and faculty members of different engineering colleges to train them in the various field of Civil Engineering. The list of the training programmes organised by the department are:

1. Orientation Programme for Junior Engineer / Assistant Engineer "Construction and Maintenance of rural roads under PMGSY" 5-7 February, 2004.
2. PMGSY Training Programme on DPR Preparation and Soil & Material Characterisation for Assistant Engineer & Executive Engineer. 21-24 October, 2005.
3. PMGSY Training Programme on DPR Preparation and Soil & Material Characterisation for Assistant Engineer & Executive Engineer. 25-28 October, 2005.
4. Earthquake Training Programmes for practicing Engineers (15 days) under National Programme for capacity building of Engineers and resource management, Govt of India, January, 2006.
5. Earthquake Training Programmes for practicing Engineers (15 days) under National Programme for capacity building of Engineers and resource management, Govt of India, date:21-12-2006 to 01-01-2007.