



BIRLA INSTITUTE OF TECHNOLOGY, MESRA OFF CAMPUS: PATNA



BIT PATNA: AN OVERVIEW

Year of Establishment: 2006

Vision: After bifurcation of the state of Bihar, two premiere Institutes of undivided Bihar, BIT Sindri and BIT Mesra are located in Jharkhand. New Bihar was left with NO PREMIERE Institute of that repute. To fill up this VOID and to fulfil the needs of the state, in terms of quality technical education, with the initiative of Government of Bihar, Birla Institute of Technology, Mesra, Patna Campus came into existence.

PROGRAMMES OFFERED

SI NO.	NAME OF PROGRAMME	DISCIPLINE(s)
1	BACHELOR OF ENGINEERING	CIVIL, MECHANICAL, COMPUTER SCIENCE, INFORMATION TECHNOLOGY, ELECTRICAL & ELECTRONICS, ELECTRONICS & COMMUNICATIONS
2	MASTERS OF ENGINEERING/ TECHNOLOGY	COMPUTER SCIENCE, ELECTRONICS & COMMUNICATIONS
3	MASTERS OF BUSINESS ADMINISTRATION (MBA)	
5	BACHELOR OF COMPUTER APPLICATIONS (BCA)	
6	BACHELOR OF BUSINESS ADMINISTRATION (BBA)	
7	Ph.D.	ALL DISCIPLINES OF ENGINEERING, SCIENCES & MANAGEMENT

FACULTY/STAFF/STUDENT DETAILS

SI NO.	PARTICULARS	NUMBER
1	FACULTY MEMBERS	64
2	STAFF MEMBERS	80
3	STUDENTS	1000 (Approx)

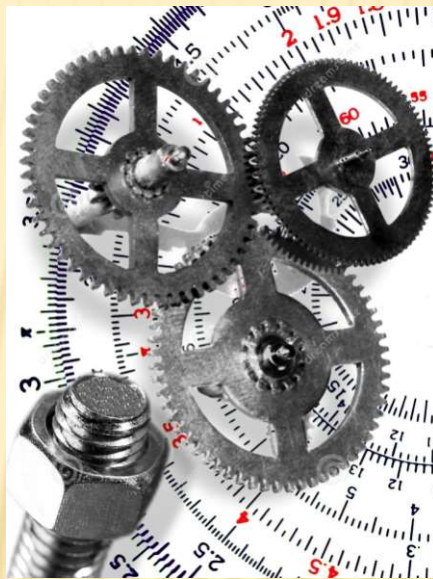
UNIQUENESS AMONG THE PEERS

- ✘ 50% SEATS RESERVED FOR THE STUDENTS OF BIHAR.
- ✘ “START-UP Cell” is successfully running by the initiative of Dept. of Industries, Govt. of Bihar.
- ✘ “Institute’s Innovation Cell” is running to create a vibrant environment for research and innovations.

STUDENT'S CLUBS/ SOCIETIES







- × IEEE Chapter
- × Robotics Society
- × SAE Chapter- Automobile
- × Megapixel Photography Club
- × ASME Student Society
- × Divya Society for Soft Skills
- × IGNITE Technological Society





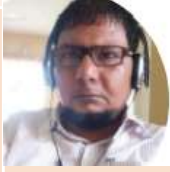
MECHANICAL ENGINEERING DEPARTMENT



**Birla Institute of Technology
Patna Campus**

OUR FACULTIES

Sl. no		Name	Designation	Qualification	Specialization	Publications
1		Dr. Arbind Kumar	Professor	Ph.D	Thermal Engineering, Ref.& air-conditioning	34 Book Chapt -3 Books-2 (in Process)
2		Dr. S.P. Lal	Professor	Ph.D	Production Engineering	23
3		Prof. Girish Pathak	Asst. Professor	M.Tech	Thermal Engineering, Mechatronics	
4		Kapil deo Prasad	Asst. Professor	M.Tech	Material Science	3
5		Dr. Anand Kumar	Asst. Professor	Ph.D	Thermal Engg, Metal Matrix composites	11
6		Dr. S. K. Pradhan	Asst. Professor	Ph.D	Composites, Robotics	17

Sl. no		Name	Designation	Qualification	Specialization	Publication
7		Dr. Soumen Mandal	Asst. Professor	Ph.D	Thermal Engineering	11
8		Dr. Ravi Shankar Anand	Asst. Professor	Ph.D	Design and CAD, FEA	10
9		Dr. Amit Kumar	Assit. Professor	Ph.D	Advanced materials, Machine Design	16
10		Dr. Chandan Kumar	Asst. Professor	Ph.D	Thermal Engineering	07
11		Mr. Vijay Kumar Mandal	Associate Lecturer	M.Phil	Production Engineering	

SUPPORTING STAFF

Sl.no	Name	Designation	Qualification
1	Mr. Ajay Kumar Kapardar	TCRF	M.Tech
2	Mrs. Indu Singh	Draftsman	Diploma
3	Mr. Jai Prakash	Assistant	10+2
4	Mr. Rahim Ansari	Office Assistant	BCA

Technical Staff

Sl. No	Name	Designation	Qualification
1	Mr. Chuninder Mahto	Technician	ITI
2	Mr. Ram Keshwar Pahan	Technician	ITI
3	Mr. Rajendra Pramanik	Technician	ITI
4	Mr. Mani Shankar Vishwakarma	Technician	ITI
5	Mr. Bipin Kumar	Technician	ITI

ON GOING PROJECT

ARDB Project

Title: Microwave shielding of quaternary composite for Aerospace Industry

Co PI- Dr. S. K. Pradhan

Project Number: 2046

Total Cost: 29.4 Lac

Date of Sanction: 2/09/22

STUDENT ACTIVITY

Team Ashwa

DYNAMIC 42ND

DESIGN 50TH

CAE 7TH

SALES 18TH

OVERALL 40TH

HUDSON HORNET

BAJA SAE INDIA 2021

TEAM ASHWA 2020-21 | TOTAL TEAMS PARTICIPATED: 200
RANK OUT OF 150

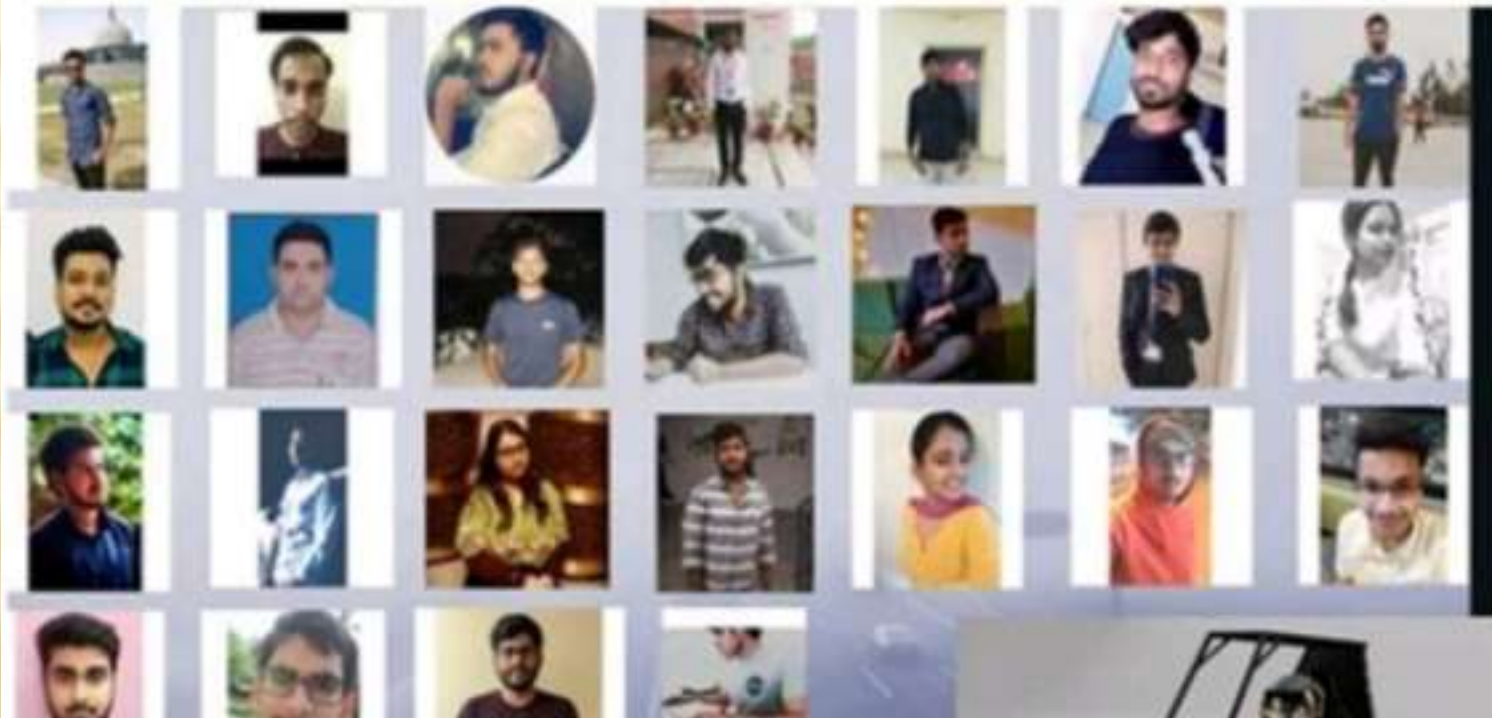
RESULTS 2021

RESULTS 2021

With effective interaction amongst all team members, we established a benchmark for the future season teams and hope to improve through upcoming seasons.

With this year's results, we prove our strong engineering and designing skills ranking under **TOP 10 in CAE** along with our effective communication and marketing skills we ranked under **TOP 20 in SALES**. With ranking under **TOP 40 in SAE BAJA 2021** Season we look forward to 2022 Season and assure working hard to bring more such results to our college Birla Institute of Technology Mesra, Patna Campus.

TEAM ASHWA 2K20-21



INTERNAL COMBUSTION ENGINE

- 1. 4 cylinder 4-stroke petrol engine test rig**
- 2. 4-cylinder 4-stroke Diesel engine**
- 3. Two stage air compression test rig**
- 4. Variable compression ignition petrol engine test rig**
- 5. 4 cylinder 4 stroke engine with Morse test rig**
- 6. working model of firing order in 4 cylinder engine**
- 7. Pollution measurement instrument (Petrol engine)**

AUTOMOBILE ENGINEERING

- × **Working model of Gear box**
- × **Sliding gear box**
- × **Constant mesh gear box**
- × **Epicycle gear box**
- × **Lighting system in an automobile**
- × **Breaking system**
- × **Disc brake**
- × **Mechanical Brake**
- × **Hydraulic brake**
- × **steering mechanism System**
- × **Torque convertor**

STRENGTH OF MATERIALS

- × **Universal testing machine (40T) (tensile ,compressive & bending test)**
- × **Torsion testing machine**
- × **Brinell hardness tester**
- × **Rockwell hardness tester**
- × **Impact testing machine (Izod & Charpy test)**
- × **Impact Indentation machine**

HEAT TRANSFER

- × Heat pipe demonstrator
- × Emissivity measurement apparatus
- × Natural convection and force convection apparatus
- × Thermal conductivity measurement apparatus
- × Pin-Fin Apparatus
- × Digital Bomb Calorimeter
- × Boiling and condensation apparatus
- × Parallel flow heat exchanger.
- × Counter flow heat exchanger
- × Cross flow heat exchanger

FLUID MECHANICS AND HYDRAULIC

- × **Metacentric height measurement apparatus**
- × **Verification of Bernoulli's Theorem apparatus**
- × **Reynolds Experiments apparatus**
- × **Orifice meter apparatus**
- × **Friction coefficient measurement apparatus**
- × **Pelton Turbine**
- × **Francis Turbine**
- × **Kaplan turbine**
- × **Centrifugal pump**
- × **Gear pump apparatus**
- × **Cavitations apparatus**
- × **Reciprocating pump apparatus**
- × **V-notch apparatus**

REFRIGERATION AND AIR CONDITIONING

- × Cascade refrigeration test rig
- × Thermo Electric effect apparatus
- × Vapour absorption Refrigeration system
- × Air conditioning Test rig (Not working).

COMPUTER AIDED DESIGN

- × Computer-18
- × UPS & Power backup-1, 10 KVA
- × LCD Projector-2
- × 3D Printer-1
- × Server- 128 GB RAM-1

MACHINE SHOP

- × Lathe Machine -7
- × Spcl.Lathe -1
- × Turret Lathe -2
- × CNC Lathe-1 (Train Master) -1
- × Milling Machine -5
- × Shaper Machine -1
- × Drilling Machine- 4
- × Grinding Machine -4
- × Tool & Cutter Grinding Machine -2

CARPENTRY & FITTING

- ✘ Gas welding Machine-1
- ✘ Arc Welding Machine-1
- ✘ TIG Welding Machine-1
- ✘ MIG welding Machine-1
- ✘ Carpentry machine vice -4
- ✘ Fitting machinevice-6

LABORATORY PHOTOGRAPH



4-cylinder 4-stroke petrol engine
eddy current test rig

4-cylinder 4-stroke petrol
engine test rig



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4-cylinder 4-stroke Diesel engine test rig

Single cylinder 4-stroke Diesel engine test rig







Thermo Electric effect apparatus



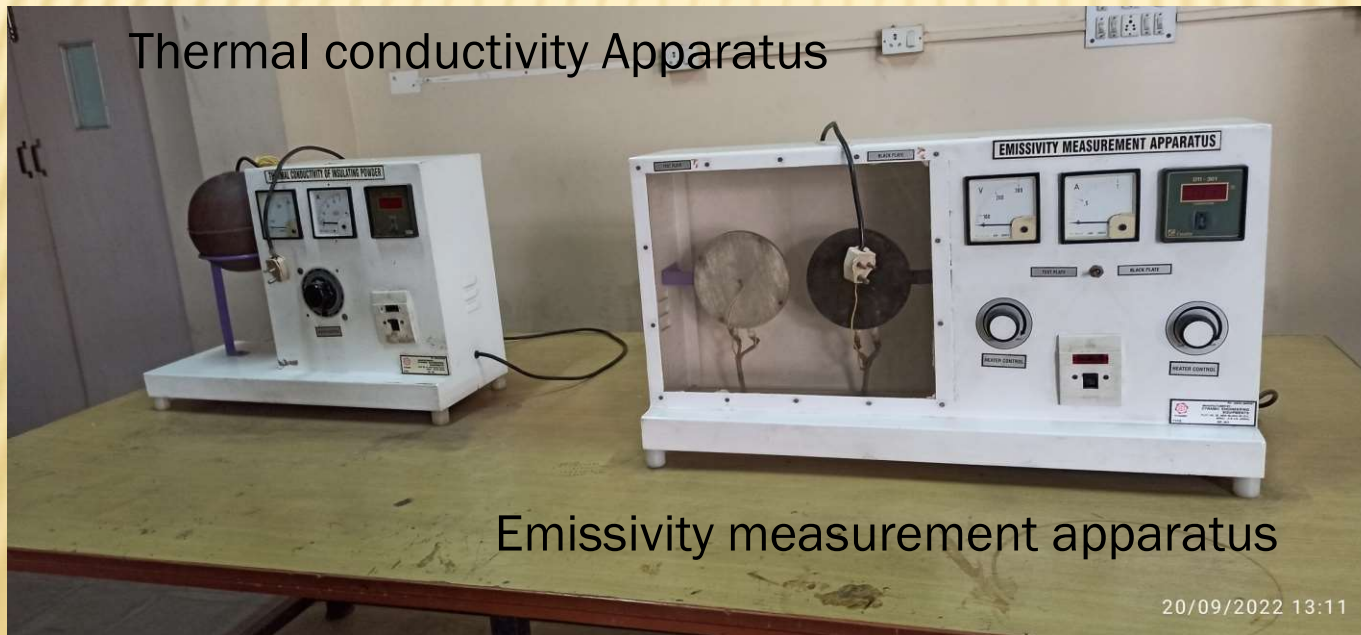
Air conditioning Test rig

Pin-Fin Apparatus

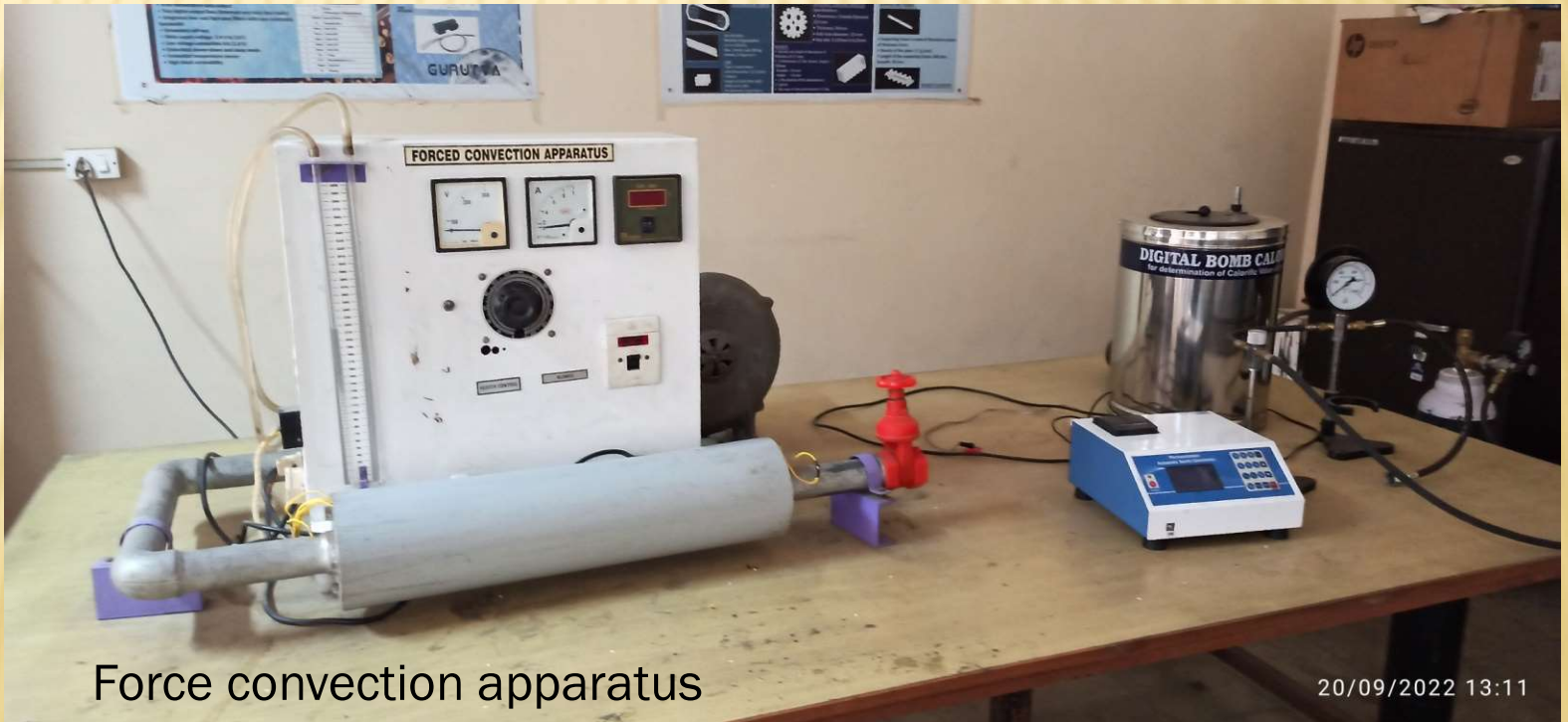


Natural Convection Apparatus

Thermal conductivity Apparatus



Emissivity measurement apparatus





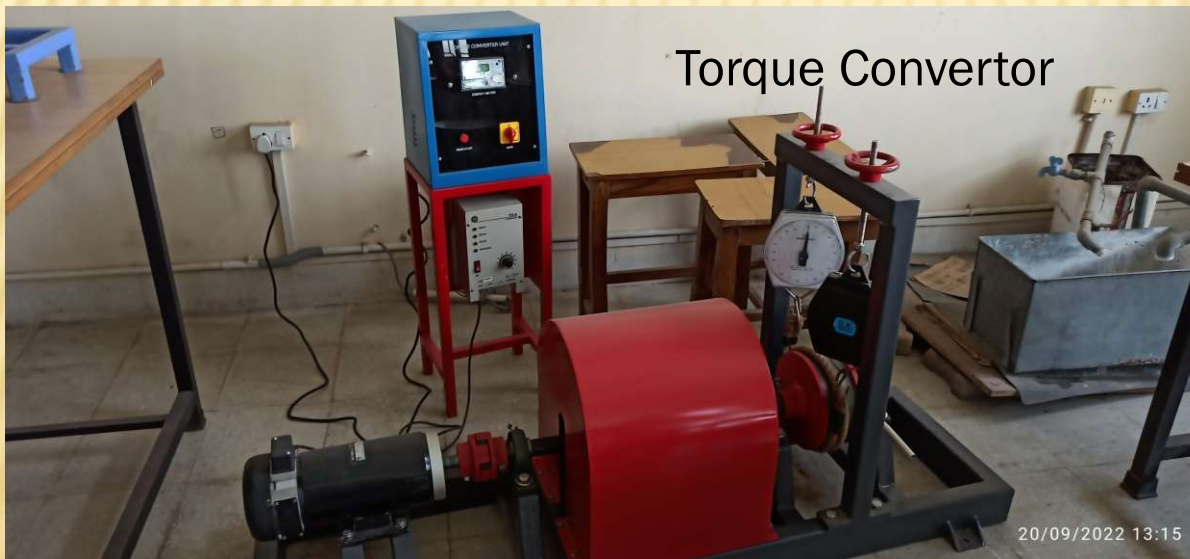
steering mechanism

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Sliding Gear Box

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Torque Convertor

20/09/2022 13:15





Kaplan turbine



Francis Turbine



Pelton Turbine

Lathe Machine



20/09/2022 13:04

Drilling Machine



20/09/2022 13:05



Milling Machine

20/09/2022 13:04



Drilling Machine

20/09/2022 13:05



Milling Machine

20/09/2022 13:05



Carpentry And Fitting Shop

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CAD LAB



CIVIL ENGINEERING DEPARTMENT



**Birla Institute of Technology
Patna Campus**

FACULTY PROFILE OF THE DEPARTMENT:

SL. NO.	NAME OF FACULTY	DEPARTMENT	DESIGNATION
1.	Dr. Anish	Civil Engineering	Assistant Professor/ In-Charge, CED
2.	Dr. Angshuman Mandal	Civil Engineering	Assistant Professor
3.	Ms. B. Mahto	Civil Engineering	Assistant Professor
4.	Dr. B. N. Singh	Civil Engineering	Associate Lecturer

TECHNICAL/ADMIN STAFF IN THE DEPARTMENT

SL. NO.	NAME OF STAFF	CURRENT DESIGNATION
1.	Mr. J. P. Mishra	Technician
2.	Mr. P. K. Mishra	Junior Technical Superintendent

LABORATORY FACILITIES:



Surveying Laboratory



Geotechnical Engineering



Structural Engineering



Transportation Engineering



Concrete Technology



Environmental Engineering



Computer Aided Design & Drawing



Design & Drawing of Hydraulic Structures

STRUCTURAL ENGINEERING LAB

The structural Engineering lab of this department is well equipped for conducting the UG course. Several models are available in the lab to provide an understanding of the structural member behaviour under the action of loads. The theoretical formulas of linear elastic structural elements can be verified by conducting experiments in the lab.

Important Models are:

- Model for two hinged arch system
- Model for Maxwell reciprocal theorem experiment
- Model for three hinged arch system
- Model for flexural rigidity experiment



GEOTECHNICAL ENGINEERING LAB

The routine test related to the soil (like moisture content, soil classification, soil compaction, consolidation, permeability, shear strength etc.) can be performed in an adequate manner in the Geotechnical Engineering lab of the department. There are several pieces of heavy equipment for conducting the field test of soil like the standard penetration test (SPT).

Important Equipments are:

- California bearing ratio test apparatus
- Consolidation test apparatus
- Direct shear test apparatus
- Proctor compaction apparatus
- Standard penetration test apparatus
- Triaxial cell apparatus

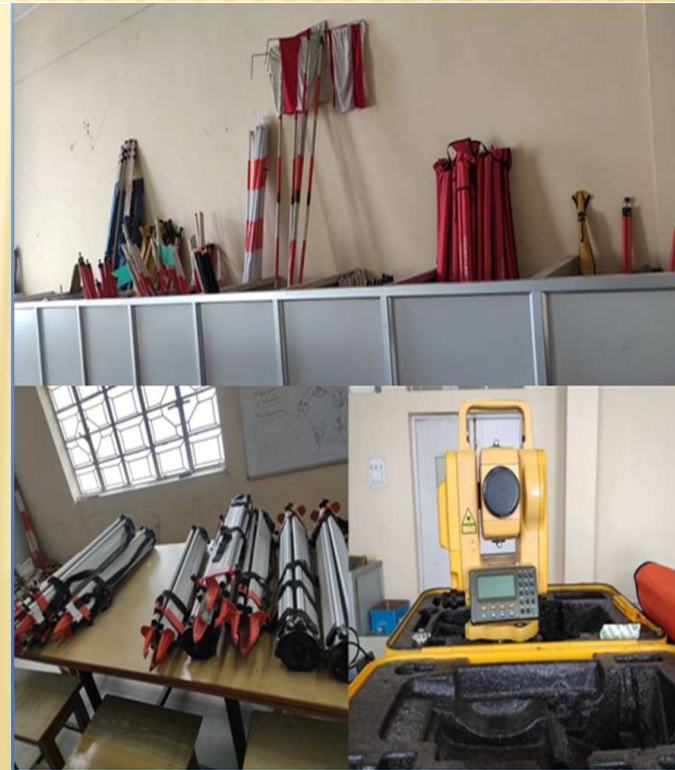


SURVEYING LABORATORY

There are several lab equipments/ accessories exist in the surveying lab that enables the students to perform chain, compass, plane table, levelling etc. Students will be capable to take measurements of angles using a theodolite and set different types of curves in the field. Several modern instruments are also available in the lab.

Important Instruments are:

- Auto level
- Dumpy level With Accessories
- GPS satellite receiver
- Long range telescope
- Theodolite Total station.



TRANSPORTATION ENGINEERING LAB

The transportation engineering lab is well equipped with the tools required for flexible pavement design. The California Bearing Ratio (CBR) value for the soil in flexible pavements can be efficiently determined in the lab. Various tests on bitumen can be conducted adequate manner in this lab.

Important Equipments are:

- Marshall Stability Test App. with Accessories
- Aggregate Abrasion Value Apparatus
- Demountable Mechanical Strain Gauge.



CONCRETE TECHNOLOGY LAB

The material properties of the ingredients used to make concrete can be performed in the concrete technology lab adequately. The tests corresponding to the fresh and hardened concrete can be carried out. Destructive and Non-destructive tests of hardened concrete can also be done.

Important Equipments are:

- Compaction Factor Test Apparatus for concrete
- Digital Compression Testing Machine
- Ultrasonic Concrete Tester (Non-destructive test)



ENVIRONMENTAL ENGINEERING LAB

There are various basic and advanced level equipments available in the environmental engineering lab to determine the water quality in compliance with different standards. Physico-chemical analysis of water can be performed using various procedures. Water and wastewater quality reports can be interpreted in the lab. Moreover, the optimum quantity of chemicals used for water treatment and assessment of the biological quality of water can be performed.

Important Instruments are:

- Flocculator/ Jar test apparatus
- Kjeldahl Digestion & Distillation unit
- COD photometer & digestion unit
- Flame photometer
- Spectrophotometer (UV/Visible)



COMPUTER AIDED DESIGN AND DRAWING LAB

This lab introduces the students to the various software tool/s useful for Civil Engineering. The practical problems associated with the Civil Engineering Department can be properly modelled or analysed (based on simulation) using these software/s. Preparation of map based on Geospatial data are also performed in the lab.

List of hardware:

- Computer (CPU, display, mouse, keyboard)
- Overhead projector
- Printer (b/w).

List of Software:

- MATLAB
- STAAD Pro
- iGIS.



DESIGN AND DRAWING OF HYDRAULIC STRUCTURES LAB

This lab facilitates the students to understand the basic concepts related to the design of hydraulic structures, spillways, siphons, aqueducts, canal regulators using the small-scale models.

Important models are:

- Model of Gravity Dam
- Model of Spill Way Gate
- Model of Syphon Aqueduct
- Model of Canal Regulator.



STUDENTS INTAKE IN THE CIVIL ENGINEERING

Year/Batch	2021- 22	2020- 21	2019- 20	2018- 19
No. of Students	08	29	27	31

LIST OF PUBLICATIONS

**Journals
Published by the
Department
in the last 5 years**

10

ACHIEVEMENTS OF THE DEPARTMENT

Two national Conferences (2018 & 2013) with proceedings having ISBN.

Civil Engineering Society established in 2015 and registered with its own logo.

SVADHYAYA - Magazine published by the students of Civil Engineering Department.

Workshops, Webinars, interactive sessions with alumni's, social activities

Industrial tours/ Survey camps

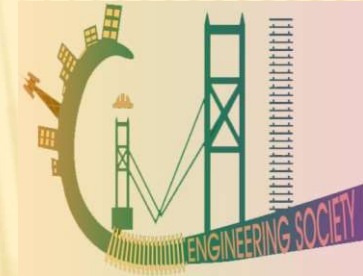
Consultancy

Journal published by faculty members

ACHIEVEMENTS OF THE DEPARTMENT

× **BOOK CHAPTER**

- + Mandal, A., Maity, D. (2022). Fluid Structure Interaction Analysis Under Earthquake Loading and Its Application to Concrete Gravity Dam. In: , et al. Recent Advances in Computational and Experimental Mechanics, Vol II. Lecture Notes in Mechanical Engineering. Springer, Singapore. https://doi.org/10.1007/978-981-16-6490-8_9; published on 26th February 2022.



Civil Engineering Society

Birla Institute Of Technology, Mesra
(off Campus Patna)

GUEST LECTURES

S. NO.	NAME	DESIGNATION	DATE OF VISIT	PHOTO
1	Er. Ajeet Kumar	G.M. (IRCON)	12-09-2020	
2	Amol Srivastava	IAS	09-02-2021	
3	Rameshwar Singh	Zonal Head (DGM), Customer technical Service, Jk Cement, East Zone 2, Patna, Bihar	05-06-2021	

4	Prashant Kumar Singh	Assistant Manager, Customer technical Service, Jk Cement, East Zone 2, Patna, Bihar	05-06-2021	
5	Er. B. N. Bhaskar	Chief Engineer (Construction)	13-08-2021	
6	Anu Anand	Certified wellness and yoga trainer & founder, AnuYog	21-08-2021	

EVENT: 1 INTRODUCTION SESSION OF 2018 BATCH





EVENT: 2
GUEST LECTURE ON WATER RESOURCE BY SHRI
A.K.KESHRI(IIT,DELHI)


GUEST LECTURE ON J.K.CEMENT AND ITS VALUE ADDED PRODUCTS

JK Cement Ltd.

Making of concrete

- **Batching** (1 – Volume batching, 2 – Weigh batching).
- **Mixing**: The process of rolling, folding and spreading of particles is known as the mixing of concrete.

1. Hand mixing
2. Mixture machine



Click to add notes

English (United States)

Fr... (20)


- shouvik deb
- SHRISTI SHRISTI
- SHRUTI PRAKAS
- SHYAM KUMAR
- Thohidul Khan
- Vinish Kumar
- VISHAL VISHAL
- Vivaswan Kaush

@civilsocietybitp @civil_society_bitp Civil Engineering Society,BITP civilenggsocietybitp@gmail.com

JK Cement Ltd.

Cover to reinforcement

- Inadequate cover to the reinforcement is one of the major factors leading to early deterioration of reinforcement.
- For slab, (chairs) (links) : 25mm - 30mm
- For Column, (sleeve) : 25 mm (As per requirement)
- At each end of the reinforcement : not less than 25mm
- For foundation work : 40 mm
- Cover blocks should be provided to protect the reinforcement (Made of concrete mortar 1:2)



Click to add notes

English (United States)

MINTU SINGH and 25 more

@civilsocietybitp @civil_society_bitp Civil Engineering Society,BITP civilenggsocietybitp@gmail.com



EVENT: 4

TECHNICAL EVENT "EDIFICE"



EVENT: 6
INAUGURATION CEREMONY OF CIVIL ENGINEERING
COMPUTER LAB



EVENT: 7

FLOOD RELIEF WORK AT PATNA FLOOD DISASTER

MIND WELLNESS AND CHAIR YOGA



EK SHAAM AZADI KE NAAM



CIVIL ENGINEERING SOCIETY



Patna, Bihar, IN

The Technical Club of the Department of Civil Engineering, Birla Institute of Technology, Mesra, Patna Campus

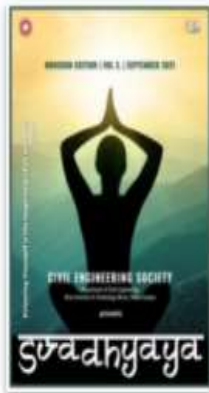
https://www.youtube.com/channel/UCg6N_QJ9ePWU4aTM_C3ovg

FOLLOW



PUBLICATIONS (3) STACKS (0) FOLLOWERS (0)

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MO Edition)

by CIVIL ENGINEERING SOCIETY
Published 6 months ago



SVADHYAYA (Vol. 2, 2021,
SP Edition)

by CIVIL ENGINEERING SOCIETY
Published 1 year ago



SVADHYAYA (Vol. 1, 2020,
MO Edition)

by CIVIL ENGINEERING SOCIETY
Published 1 year ago

SVADHYAYA

(3 editions released on issuu.com)



Civil Engineering Society

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INAUGURAL CEREMONY | EDIFICE 2021 | CES | BITP 154 views • Streamed 6 months ago
 EK SHAAAM AZAADI KE NAAM | TEASER | CES | BITP 59 views • 6 months ago
 EDIFICE 2021 | TEASER | CES | BITP 88 views • 7 months ago
 FAREWELL - 2017 BATCH | CES | BITP 198 views • Streamed 8 months ago
 A TRIBUTE TO 2017 BATCH | CES | BITP 266 views • 8 months ago
 LIVE Q&A SESSION WITH SOUMITRA CHAKRAVARTI... 149 views • Streamed 8 months ago



FREE WEBINAR ON 'QUALITY CONTROL UNDER GOOD...' 101 views • 9 months ago
 Webinar on Career in CIVIL Services (Strategy Session... 119 views • Streamed 1 year ago
 72nd REPUBLIC DAY CELEBRATION & RELEASE... 80 views • Streamed 1 year ago
 ORIENTATION PROGRAMME OF 2020 BATCH | Civil... 365 views • Streamed 1 year ago
 Happy Chhath Puja - 2020 | Wishes | Civil Engineering... 74 views • 1 year ago
 Cultural Night - 2020 | Civil Engineering Society | BITP 467 views • 1 year ago



Cultural Night - 2020 | Trailer | Civil Engineering Society... 106 views • 1 year ago
 Cultural Night - 2020 | Teaser | Civil Engineering Society... 105 views • 1 year ago

YOUTUBE

(All major events are live streamed on YouTube channel)

COMPUTER SCIENCE ENGINEERING DEPARTMENT



**Birla Institute of Technology
Patna Campus**

COURSES @Department of Computer Science Engineering

DOCTOR OF PHILOSOPHY (Ph.D- Engg.)

MASTER OF TECHNOLOGY (COMPUTER SCIENCE & ENGINEERING)

BACHELOR OF TECHNOLOGY (COMPUTER SCIENCE & ENGINEERING)

BACHELOR OF TECHNOLOGY (INFORMATION TECHNOLOGY)

BACHELOR OF COMPUTER APPLICATIONS

- Over 2000 students have graduated from the Department of Computer Science Engg. from BITP campus



DEPARTMENTAL INFRASTRUCTURAL VIEW

DESCRIPTION	DETAILS
NUMBER OF COMPUTER SYSTEMS	200 Approx with Latest configuration using Windows 10 and Linux as OS
INTERNET CONNECTIVITY	DEDICATED 160 MBPS WITH SOPHOS CYBER SECURITY
WI-FI CONNECTION	FREE WI-FI FACILITY UNDER GOVT. OF BIHAR (BIHAR 7 NISCHAYA)
INTERNET SERVICE PROVIDER	SIFY BROADBAND LEASED LINE CONNECTION

INFRASTRUCTURE VIEW

SERVERS

- WINDOWS OS SERVER
- LINUX OS SERVER
- ANTIVIRUS SERVER
- ORACLE 10G SERVER

DELL R530 (Mid
Range Server)

- Intel Xeon E5(2.4 Ghz/6-
core/15MB)
- 16 GB DDR4, RDIMM
- 300 GB SAS- 6GBPSORACLE 10G
SERVER

DELL R220 (Entry
level Server)

- Intel Xeon E3(3.1 Ghz/4-core/8MB)
- 2 TB DDR4, UDIMM, SATA
- Enterprise Linux Server(Nodes 1)








LIST OF COMPUTER SOFTWARES






- ✓ MS OFFICE 2007
- ✓ MATLAB
- ✓ RATIONAL ROSE (STAR UML)
- ✓ TURBO C++
- ✓ JAVA, JDK
- ✓ ESET (ANTIVIRUS)
- ✓ ORACLE 10G
- ✓ VISUAL STUDIO
- ✓ PROLOG
- ✓ WEKA
- ✓ PYTHON




DEPARTMENTAL FACULTY RESOURCE - Teaching

S.No.	Faculty Name	Faculty Name	Email Ids	Mobile Number	Specialty
1.		Dr. K. Lal	klal@bitmesra.ac.in	7368088948	Data Mining, Artificial Intelligence, Intelligent Systems
2.		Mr. Subho Chaudhuri	schaudhuri@bitmesra.ac.in	9903993396	Operating Systems, Compilers, Computer Arch& Organization, Distributed Systems, Big Data (Perf/ Fault Tolerant Issues)
3.		Dr. Upendra Kumar	upendrkr@bitmesra.ac.in	9006960159	Cryptography & Network security, Automata theory, ML, Artificial Intelligence & Data Mining
4.		Dr. S.C. Pandey	s.pandey@bitmesra.ac.in	8887710084	Data Mining, Soft Computing, Bio-Inspired Computation, AI, Networking & Security
5.		Dr. R. S. Pandey	rspandey@bitmesra.ac.in	7388404772	Networks, Internet of Things, Web Services, Object Oriented Modeling, Artificial Intelligence

DEPARTMENTAL FACULTY RESOURCE - Teaching

S.No.	Faculty Name	Faculty Name	Email Ids	Mobile Number	Specialty
6.		Dr. Ajit Kr. Keshri	ajitkeshri@bitmesra.ac.in	9936664130	Parallel and Distributed Computing, Computer Architecture, Wireless Network, DBMS & OO Programming
7.		Mr. S.K. Chatterjee	bitskchatterjee@yahoo.com	8340174202	Machine Learning, Data Clustering Algorithms, Computer Graphics, Advanced Data Structures and Algorithm Design, Data & Computer Network, System Programming
8.		Dr. Amit Prakash	aprakash@bitmesra.ac.in	72093363319	Image Processing and Recognition, Natural Language Processing
9.		Dr. Ayan Kumar Das	das.ayan@bitmesra.ac.in	9661221872	Wireless Sensor Network, Internet of Things, Machine Learning

DEPARTMENTAL FACULTY RESOURCE- Teaching

S.No.	Faculty Name	Faculty Name	Email Ids	Mobile Number	Specialty
10.		Dr. Ratnesh Mishra	r.mishra@bitmesra.ac.in	7706811566	Data communication & Computer Network, Network Security, Cryptography, Cloud Computing, Data Mining web Technology, E-Commerce, Software Engg.IOT
11.		Dr. Sheel Shalini	sheel.shalini@bitmesra.ac.in	9431458384	Data Structure, Operating System, Algorithm Design , ML & Data Mining
12.		Mr. Shridhar Kumar	shridharkumar@bitmesra.ac.in	8292331078	Computer Network, Data Structure, COA, OOAD, OS, Web Tech.
13.		Mr. Madhup Kumar	madhup.kumar@bitmesra.ac.in	9955346969	Data Mining, Software Engineering, DBMS
14.		Mr. Adnan Mahmood	adnan.mahmood@bitmesra.ac.in	9572507104	Computer Graphics, Multimedia

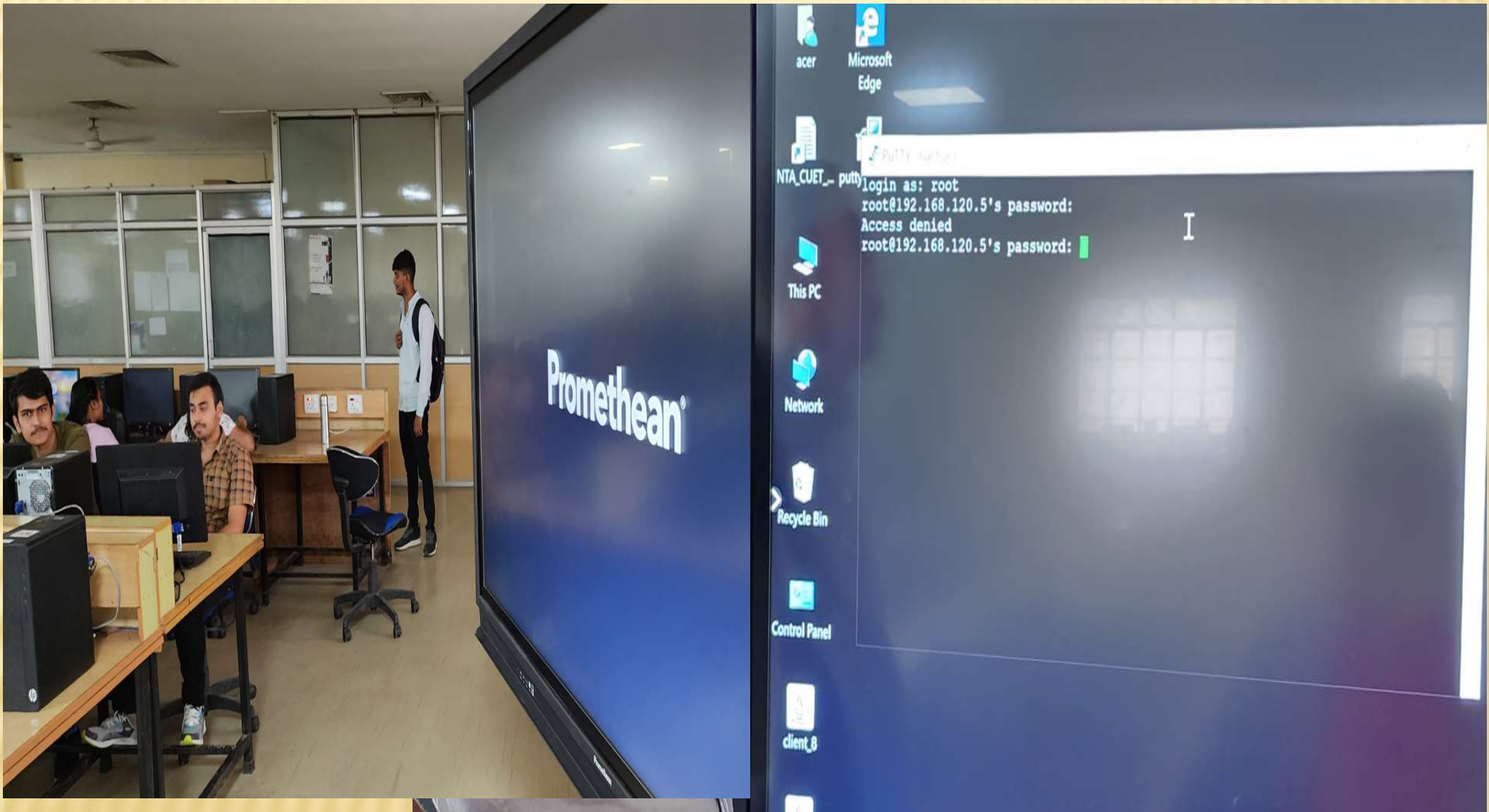
DEPARTMENTAL RESOURCE- Non-Teaching

S.No.	Faculty Name	Email Contact	Mobile Contact	
1.	Dr. Smita Pallavi	smita.pallavi@bitmesra.ac.in	8051872778	
2.	Mr. Ajay Kumar Shrivastava	ajay_sriv@yahoo.com	9279070968	
3.	Mr. Visheshwar Mahto	visheswar1979@gmail.com	7739469091	
4.	Mr. Pradeep Kumar	pkmishra9@rediffmail.com	9889084632	
5.	Mr. Rajesh Chandra	rajeshvista@rediffmail.com	9608013747	

DEPARTMENTAL RESEARCH CONTRIBUTIONS

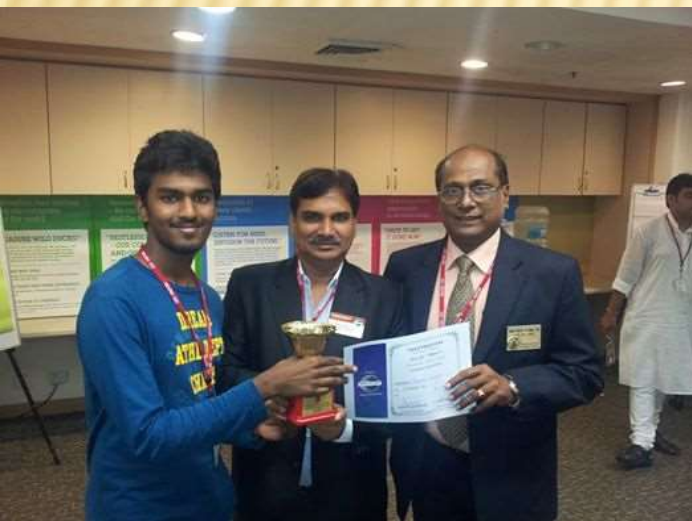
S.No.	Research Highlights	Total Count
1.	Ph.D. Scholars	20
2.	SCI/ SCIE PUBLICATIONS	42
3.	SCOPUS (NON –PAID)	38
5.	BOOK CHAPTERS	17
6.	BOOKS	05
7.	CONFERENCE PROCEEDINGS	57
8.	INVITED TALKS	12
9.	PATENTS	04

Smart Boards -2 for Laboratory Sessional



Knowledge Sharing through Guest Lectures

- ❖ Prof. (Dr.) Venu Govind Raju, SUNY Distinguished Professor, University at Buffalo, The State University of New York, USA
- ❖ Prof. (Dr.) R.K.Syamsundar , Senior Professor, TIFR, Mumbai
- ❖ Prof. (Dr.) P.K.Jana, HOD , CSE Dept. ISM Dhanbad
- ❖ Prof. (Dr.) Onkar Sharma, Professor & Director- School of CSE , Marist, USA



Workshop on Universal Acceptance (Promoting Internet in Devnagri Script)



ELECTRONICS & COMMUNICATIONS ENGINEERING DEPARTMENT



**Birla Institute of Technology
Patna Campus**

FACULTY DETAILS

Sr. No.	Name of the Faculty	Designation	Specialisation	Number of Publications
1	Dr. Ritesh Kumar Badhai	Assistant Professor & In-charge	Microwave Engineering	43
2	Dr. Shahiruddin	Assistant Professor	Wireless Communication	21
3	Dr. Megha Dadel	Assistant Professor	Wireless Communication	15
4	Dr. Priyadarshi Suraj	Assistant Professor	Wireless Communication	37
5	Dr. Atul Kumar Pandey	Assistant Professor	Wireless Communication	07
6	Dr. Shipra Mishra	Assistant Professor	Instrumentation and control	07
7	Dr. Sweta Kumari	Assistant Professor	Wireless Communication	07
8	Mr. Rajeev Ranjan	Assistant Professor	Microwave Engineering	01
9	Dr. Nilay Pandey	Assistant Professor	Wireless Communication	13
10	Dr. Shiv Kumar Choubey	Teaching cum Research Fellow	Semiconductor Nanomaterials	14

PROGRAM OFFERED

- ✘ Ph.D. Scholars : 09
- ✘ B.Tech. Intake : 66
- ✘ M.Tech. (Wireless Communication) Intake: 18

PROGRAM CONDUCTED

- ✘ DST sponsored Short Term Training Program on IoT conducted from 8-18th May 2019. (Co-Ordinator Dr. M. Dadel)
- ✘ Invited Lecture in Online Workshop on Wearable Devices (WWD-2020), at NIT Jamshedpur held on 16-12-2020 (Speaker Dr. R.K. Badhai)
- ✘ Invited Lecture in online webinar on Fundamental of Satellite Communication System on 27-10-2020 at Government Engineering College, Vaishali (Speaker Dr. R.K. Badhai)
- ✘ Organized Internal Smart India Hackathon 2020 and 2022.
- ✘ Xordium-2021 and 2022 (Technical fest organized by Technical club: Electronics and communication)

LIST OF LABORATORIES

Sr. No.	Laboratory	Laboratory Conducted	UG/PG
1	Lab 1	Electronics and Communication Lab	UG
		Electronic Devices Lab/Analog Circuits Lab	UG
2	Lab 2	Digital System Design Lab	UG
3	Lab 3	Electronic Measurement Lab	UG
4	Lab 4	Advanced Communication Lab	UG
5	Lab 5	Signal Processing Lab	UG
		Wireless Networking Lab	UG/PG
6	Lab 6	Communication System Lab	UG
7	Lab 7	Microprocessors and Microcontrollers Lab	UG
8	Lab 8	Fiber Optic Communication Lab	UG
9	Lab 9	Microwave Lab	UG
		Antenna Lab	PG
		Advanced wireless System Design Lab	PG
10	Lab 10	VLSI System Lab	UG/PG
11	Lab 11	Microwave Integrated Circuit Lab	UG/PG

Equipment/Software

Equipment's	Equipment's	Equipment's	Software
Mobile Phone Trainer (GSM /CDMA)	Advance Antenna Trainer	IOT Trainer	NetSim
AM/FM/DSB/SSB Receiver MY	LVDT Trainer	PLC Based Experimental Mitsubishi Trainer	FEKO EM simulator
Wireless LAN Trainer Kit	Electro Pneumatic Trainer	VLSI Design Kit	Femsim R-soft (Optical fiber simulator)
Programable Logic Controller Trainer	Orifice Meter Trainer	TORGUE TRANSDUCER	Technology Computer-Aided Design (TCAD)
GPS Trainer	Fibre Optic Analog Transmitter Kit	8085 Microprocessor Trainer Kit	MATLAB
Satellite Communication Trainer Kit	AM/FM/DSB/SSB Transmitter	Super Heterodyne Receiver Kit	Multisim
Microwave Gun and Klystron Bench	Crometic Dispersion Module	Photo Etching Setup	Commsim
NI RIO Acquisition system	Modulator/Demodulator Kits	Digital Storage Oscilloscope	Cadence

LABORATORIES AT GLANCE



Basic Electronics Lab



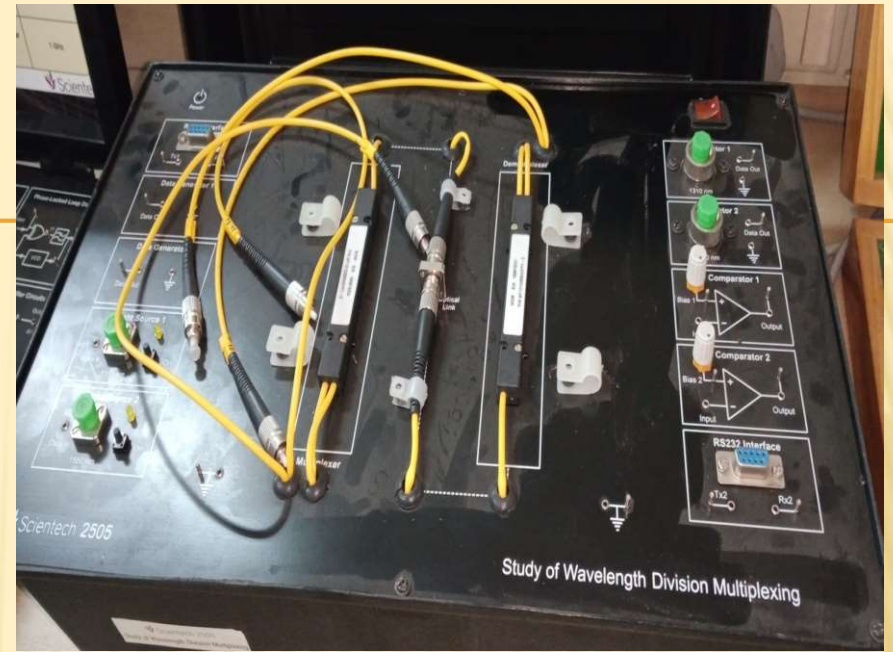
VLSI Lab



Advance Communication lab
(Satellite Trainer)



Antenna Lab
(Antenna Trainer)



WDM Kit



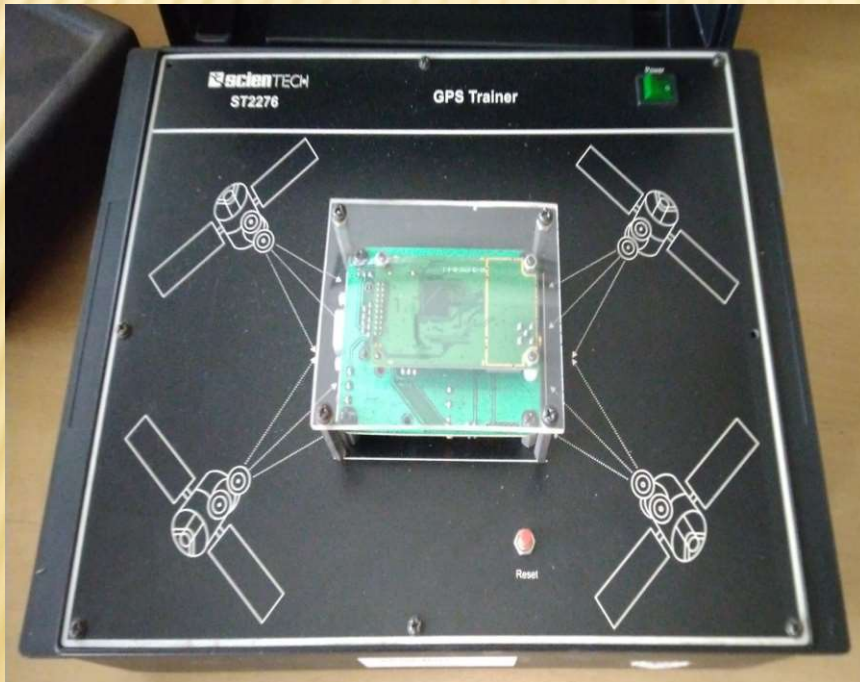
Microwave Lab



Hall Effect Trainer



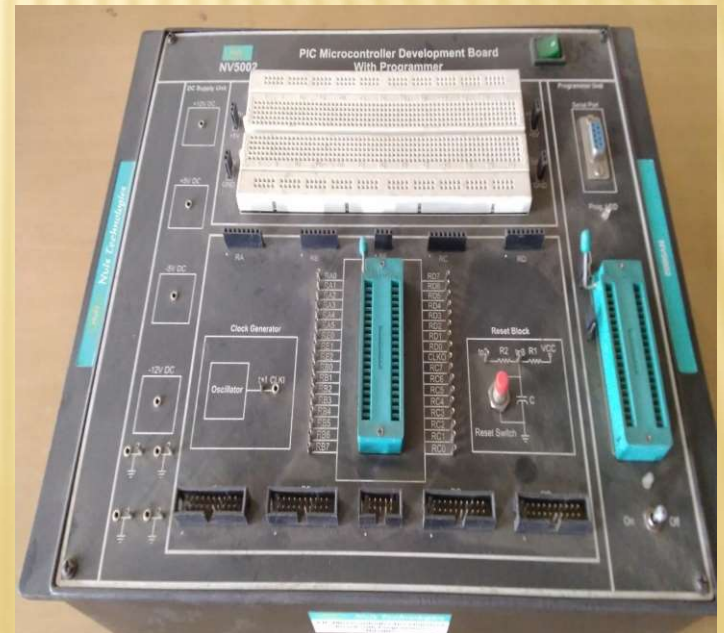
Electronics Measurement Lab



GPS Trainer



Optical Fiber Lab



Microprocessor and Microcontroller lab

DEPARTMENT OF MANAGEMENT



Birla Institute of Technology
Patna Campus

B.I.T. Mesra, Off Campus : Patna

Department of Management & Humanities

Sl. No.	Name of faculty	Highest degree	Specialization	No. of Paper published	Patent/ Innovation	PhD scholars registered / awarded
1	Dr. Adhip Kr. Mahanty	Ph.D.	Economics	09	NIL	02/02
2	Dr. Vijay Agrawal	Ph.D.	Finance	38	NIL	04/04
3	Dr. Md. Iftekhar Ahmad	Ph.D.	Marketing	06	NIL	01/00
4	Dr. Sunil Kumar Pandey	Ph.D.	HRM	09	01	01/02
5	Dr. Ashish Mohan Dubey	Ph.D.	HRM	11	NIL	01/02
6	Dr. Sushil Kumar	Ph.D.	Marketing	06	NIL	01/00
7	Dr. Amit Raghuvanshi	Ph.D.	French	05	NIL	NIL
8	Dr. Sweta	Ph.D.	HRM	05	NIL	01/00
9	Dr. Sohini Ghosh	Ph.D.	HRM	05	NIL	01/00
10	Mr. Sultan Khan	MBA	Marketing	02	NIL	NIL

DEPARTMENT OF PHYSICS



Birla Institute of Technology
Patna Campus

Faculty Details:

S. No.	Name	Designation
1	DR. S. K. SINHA	ASSOCIATE PROFESSOR
2	DR. K. P. TIWARY	ASSISTANT PROFESSOR
3	DR. BINAY BHUSHAN	ASSISTANT PROFESSOR
4	DR. P. KOUR	ASSISTANT PROFESSOR

Laboratory Details:

1. BTECH LAB

2. MATERIAL PROCESSING LAB

3. MATERIAL CHARACTERIZATION LAB

4. SEMICONDUCTOR PROCESSING LAB

Material Processing and Characterization Lab



Ball Mill



Sonicator



Spin Coater



**DC
Sputtering**

Oven



Muffle Furnace



Electronic Balance



d₃₃ Meter



N4L LCR Meter

No of Publication: 70 (SCI & SCOPUS)

No of Book Chapters: 08

No. of PhD Awarded : 04

Sponsored Projects:

- 1. Preparation and characterization of lithium titanate ceramics pebbles for breeder blanket application, Grant -Rs 12 Lakhs, Agency- BRFST (Dept. of Atomic Energy) Government of India, Duration-2007 to 2010.**
- 2. Preparation and characterization of modified lithium titanate ceramics for low activation energy, Grant -Rs 30 Lakhs, Agency- BRFST (Dept. of Atomic Energy) Government of India, Duration-2010 to 2013.**
- 3. Consultancy -Atmospheric plasma for food Processing Technology, Grant -Rs 6.5 Lakhs, Agency- NMFP (Dept. of Food processing) Government of India, Duration-2013 to 2015.**
- 4. Preparation and charecterization of lithium titanate cathod for battery application, Grant-Rs 0.80 Lakh, Agency- SMS project, BIT Mesra.**
- 5. Study of $Pb (Fe_{1/2}Nb_{1/2})O_3 - BiFeO_3$ Multiferroic for sensor applications,SEED Money Scheme ,BIT Mesra [1 yr]**
- 6. Role of Microstructure and interface Strain engineering in Magneto-Electric Properties of PFN/CZFMo Composit,CRS Project Proposal at UGC-DAE CSR,2022(PI)**
- 7. 'Crystal and Magnetic Structure study on co-doped SrFe12O19 and its Magneto-electric Properties', CRS Project Proposal at UGC-DAE CSR,2022 (Co-PI).**
- 8. “Microwave Shielding of Quaternary composite for Aerospace Indusrty” of Aeronautic R &D Board, DRDO ,2022 of 29.39996 lakh.(PI)**

Talk/Conference/Workshop organised:

- Quiz Competition on National Environment Day, 5th June 2022.
- National Technology Day, 11th May 2022
- Online Visit of ONGC Golden Jubilee, Museum (Subir Raha Oil Museum) and talk by Mr Asish Gerg, Chief General Manager, Oil and natural Gas Lt. on 7th March 2021
- Talk on " Graphene – potential for an industrial revolution " by Prof. A.Thakur, IIT Patna on 20 Oct.2019
- Workshop on Arduino based AQI system, 21 Oct.2018
- Eco Fest Quiz Competition, 17 Sept. 2018
- Sky Watch Program, during Civil Engineering Survey Program, 21 March, 2017
- Organised- A Lecture by Prof. D. Sahdev, IIT Kanpur on the topic- SEM & TEM microscopy on 25th August, 2012
- Organised- A hand on activity session on Astronomy – 12th December, 2012
- Organised- SAMAWESH – Quiz Competition on God's Particle on the Birth Anniversary of S.N.Bose on 5th Sept. 2012
- Organised- NANONYX-2013 – Poster and Modal Competition 15th Jan. 2013
- A Lecture on Astronomy by Mr Amitabh Pandey, Director, SPACE, New Delhi- 21st January, 2013
- Organised -Eco Fest – 2013 – Debate & Poster Competition held on 22nd Sept 2013
- Organised -Sky watch session for the students of nearby area at Ashiyana Bastee on 22nd January,2014
- Organised -Sky watch session for general public at Secretariat park, Patna in on 5th February, 2014

DEPARTMENT OF CHEMISTRY



**Birla Institute of Technology
Patna Campus**

FACULTIES AND STAFF

FACULTY DETAILS	
Dr. Kaushalendra Sharma	In-charge
No. of Publications	19
No. of Ph.D awarded	01
STAFF DETAILS	
Mr. Shukhdeo Bedia	Lab Attendant

INFRASTRUCTURE : RESEARCH LAB



INSTRUMENTS : (1) U.V.VISIBLE SPECTROPHOTOMETER



POLYMER PRESS



B.TECH LAB



THE INFRASTRUCTURAL CLUSTER



CONTD...





CENTRAL FACILITIES

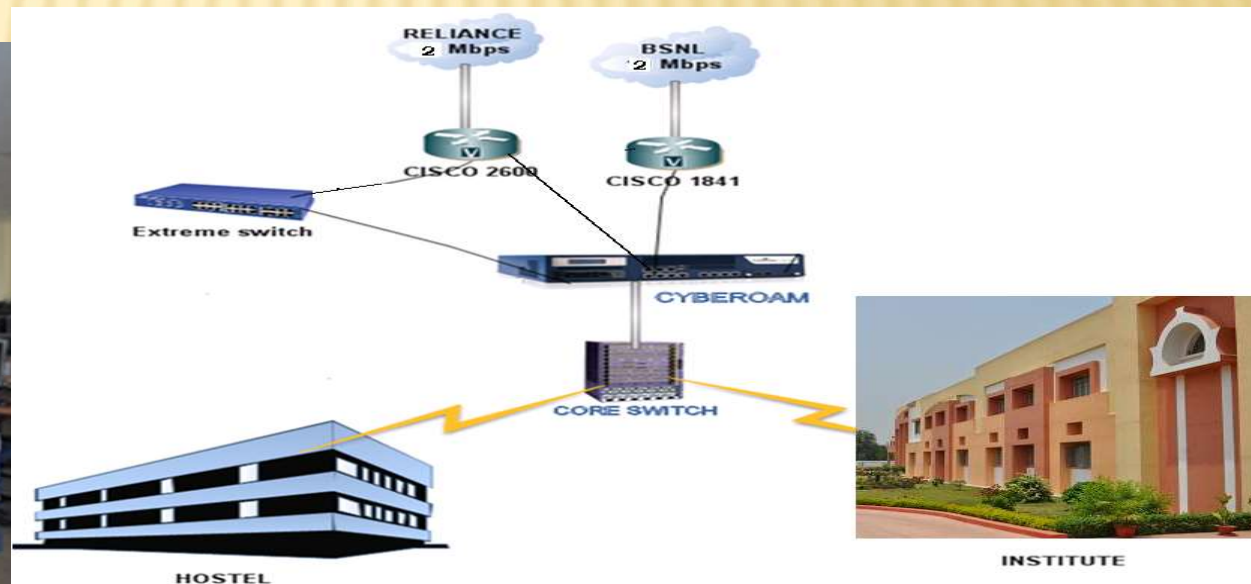
Central Library



Language Lab



Computing ,Network & Internet Facilities



SPORTS & FITNESS ACTIVITIES



FEATHERS IN OUR CAP



TheD Labs



BRY Asia Awards



Google Ambassador



TRAINING & PLACEMENT

Excellent Placement Records



THANK YOU