

Annual Report (2018-2019)



Indira Gandhi Institute of Technology, Sarang
Autonomous Institute of Government of Odisha

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1. ABOUT IGIT, SARANG

Indira Gandhi Institute of Technology (IGIT), Sarang was established in the year 1982 and was managed directly by the Govt. of Orissa in the name of Orissa College of Engineering (OCE). Prior to this, since 1981, the institute in the name of Modern Polytechnic (MPT) was offering Diploma Courses in Civil, Electrical, Mechanical, and Mining Survey Engineering. In the year 1987, both OCE & MPT were merged and renamed as IGIT, Sarang and the management was transferred to an Autonomous Society. Presently, the Institute is offering eight under Graduate Engineering courses of four years namely Civil, Chemical, Electrical, Mechanical, Metallurgical and materials, Electronics & Telecommunication, Computer Science Engg. and Production Engg., one UG B.Arch course of five years, Master in Computer Application of three years, 18 nos. of M.Tech. courses of 2 years and 3 M.Sc. courses of 2 years. In addition to the above courses, Diploma Courses of three years in Civil, Electrical, Electronics & Telecommunication, Mechanical and Metallurgical Engineering is also offered by the Institute. IGIT, Sarang has been recognised as the centre of excellence in the field of engineering research by Utkal University, Vani Vihar, Bhubaneswar, Odisha.

The Institute is spread over an integrated campus covering 179 acres of land encompassing hostels, staff quarters and a sprawling playground (Dr. M. P. Mishra memorial stadium) with basketball, volleyball and badminton courts. In addition to this, with the Govt. approval, a proposal has been submitted to District authorities for further alienation of 200 acres of Govt. land in front of the Institute for its further expansion. The institute has central infrastructural facilities like Central Library, Central Computer Centre, Central Workshop, Knowledge Centre, 8 nos. of student hostels and other amenities such as SBI (Core Bank facilities), Guest House, Hospital, Post Office, Canteen, Students and Employees Cooperative Consumer stores, different clubs, Telephone Exchange, Mobile tower and a High School in the campus. Internet facility is provided to the institute through NKN with 100 mbps project and 10 mbps lease line from BSNL. Wi-Fi Connectivity is being provided (24x7) to the institute & hostels.

There are thirteen Academic Departments, well equipped with highly qualified faculty and laboratories. The research activities of the institute are at par with any other leading institute of the State and the Country. The faculty members are well in touch with the advancement in modern technology around the world. Every year, more than 50 nos. of research papers are published in journals and Conferences of National and International repute. 25 nos. of Ph.Ds have so far been produced in different departments. National Conferences / Short term courses are organized in the institute in collaboration with IE / ISTE / AICTE. People across the country and outside are always in touch with our faculty in connection with technical research and consultancy. Quite a good number of our alumni are excelling in their field across the world.

Within a short span of three decades, the institute has grown up to the National level academically. This is the first Govt. Engg. college in the state to have accreditation from NBA (AICTE) because of its academic excellence. Currently, six departments are accredited by NBA and the Dept. of Architecture is approved by Council of Architecture, New Delhi. In the Year 2017-18 UGC has conferred the status of Autonomy to the Institute.

The serene atmosphere at Sarang offers the students optimum opportunity to concentrate on studies. Priority is given through routine curricular programmes towards improvement of practical knowledge. In order to provide complete exposure to industrial practices, the students are taken to nearby industrial organisations such as NALCO, N.T.P.C./T.T.P.S., M.C.L., N.T.P.C., Rengali Dam Project, Samal Barrage, Heavy Water Project, Bhusan Steel & Strips, Rana Sponge, Nav Bharat Ferro Alloys, Jindal Steel & Powers Ltd. etc. on weekends and holidays. Industrial visits for the students are also arranged to places of industrial importance such as Rourkela, Kansbahal, Sunabeda, Burla, Hirakud, Paradeep and Industrial Estate, Bhubaneswar etc. Every effort is being made to improve various dimensions of student's personalities by conducting regular cultural programmes, technical exercises, athletics, games and other co-curricular activities.

Campus selection of students are being conducted regularly by reputed firms like INFOSYS, Tata Consultancy Services, Larsen & Turbo Ltd. (Information Technology), defence services and Tata Refractories Ltd., Vedanta Alumina, Bhusan Steel & Strips Ltd., Kanbay, Wipro, Matas Sritech, Tari Harish, I-Flex Solution, Utkal Alumina, Visa Steel, Ananda Auto etc.

2. DIRECTOR AND OFFICIALS

DIRECTOR

Dr. Satyabrata Mohanta.

ADMINISTRATION

Dean(Academic/Exam)

Dr. S. C. Pattnaik, Prof. Mett. & Mat. Engg.

Dean(Students' Welfare & Planning
Development)

Dr. M. Moharana, Prof. Civil. Engg.

Dean(FARC)
Grievance Cell, (OMBUDSMAN)
Hostels

Dr. B. P. Panigrahi, Prof. Elect. Engg. Dean
Dr. S. K. Senapati, Prof. Mech. Engg. Warden of
Dr. G. K. Pothal, Asso. Prof. Civil Engg.

Professor, Trg. and Placement

Dr. B. B. Choudhury, Asso. Prof. Mech Engg.

Registrar

Dr. C. R. Sahoo, Asso. Prof. Civil Engg.

OIC(Aca/Exam)

Dr. Debiprasad Pany, Asst. Prof. Humanities

Accounts Officer

Mr. Debadatta Pradhan

P.A. to Director I/C

Mr. K. CPal

LIBRARY

Prof-in-Charge

Mr. M. Srinivas, Asst. Prof. CSE&A

Librarian

Dr. Srinivas Padhi

WORKSHOP

Workshop Superintendent

Dr. B. D. Sahoo, Prof. Mech. Engg.

CONSTRUCTION & MAINTENANCE

Chairman

Dr. C. R. Sahoo, Asso. Prof. Civil Engg.

Member

Dr. B. Tripathy, Asst. Prof. Civil Engg.

Member
charge-Member-Convenor
DISPENSARY

Mr. M. Behera, Asst. Prof. Elect. Engg. E/M In-
Mr. Nrusingha Pani, Estate Manager

Medical Officer

Dr. M. PRout

COORDINATORS

Coordinator DIPLOMA STREAM

Mr M. P. Behera, Asst. Prof. Electrical

Coordinator CDTP

Dr B. B. Panda, Asst. Prof. Chemistry

Coordinator TEQIP

Dr.RabindraBehera, Asso. Prof. Elect. Engg.

Coordinator SWAYAM-NPTEL

Mr.BrijeshKumar, Asst. Prof. Elect. Engg.

HOSTEL ADMINISTRATORS

HOSTEL

SUPERINTENDENT

ASST.SUPT.

Bhaskar Bhawan

Mr. K.D.Sa

Mr. Brijesh Kumar Asst. Prof.
Electrical Engg. **Mr. B.K.Nayak**

Asst. Prof., ETC Engg.

Asst. Prof. Electrical Engg.

Aryabhata Bhawan

Mr. P.R.Dhal

Sri A.P. Bairagi

Asst. Prof. Mech Engg.

Asst. Prof. Chemical. Engg.

Agni Bhawan

Dr. D.K.Swain

Mrs B. Singh

Asst. Prof. Comp.Sc. Engg.

Asst. Prof. Mech. Engg. **Mrs.**

Rohini Bhawan

Mrs J.Nayak

Brahmotri Sahoo Asst. Prof.
Chem. Engg.

Asst. Prof. Mech Engg.

Prithvi Bhawan

MsJullyRandhari

Dr. B.Sethi

Asst. Prof. Mech. Engg.

Asst. Prof. CSE & A

Akash Bhawan

Dr.S.K.Tripathy

Asst. Prof Physics

SuryaBhawan

Dr RabindraBehera
Asst.Prof.Elect.Engg

Dr R.N Sethi Asst.Prof.
Mech. Engg **Dr N.Pany**

BromhosBhawan

Dr.B.Tripathy
Asst.Prof Civil Engg.

Asst.Prof. CSE & A

Mr K.C.Pradhan

Asst.Prof. Elect

CULTURAL ASSOCIATION

President

Dr. Satyabrata Mohanta, Director

Advisor

Dr. Maheswar Moharana, Prof. Civil Engg.

Vice-President

Mr P.B.Sahu, Asst. Prof. CSE & A.

Co-Vice President

Dr. R.N.Sethy, Asst. Prof. Mech Engg.

ATHLETIC ASSOCIATION (S.P.E.R.)

President

Dr. Satyabrata Mohanta, Director

Advisor

Dr. S. K. Senapati, Prof. Mech Engg

Vice-President

Mr. U.K. Mahanta, Asst. Prof. Elect. Engg.

Co-Vice President

Mr. Himansu Sekhar Dash, Asst. Prof. Prod. Engg.

Ms Jully Randhari, Asst. Prof. Mech. Engg

Physical Training Instructor

Mr. Rajanikanta Mishra

ALUMNI ASSOCIATION

President

Dr. Satyabrata Mohanta, Director

Vice-President

Dr. R.N.Sethy, Asst. Prof. Mech. Engg.

Secretary-cum-Treasurer

Mr. Sandeep Sahoo, Asst. Prof. Mett. & Mat. Engg.

Website of Alumni Association

www.igitalumni.org

AUDIO-VISUAL CLUB

President

Dr. Satyabrata Mohanta, Director

Vice-President

Dr. N.C.Nayak, Asst. Prof. Mech. Engg.

Co. Vice-President

Mrs. Jayashree Nayak, Asst. Prof. Mech.

S.S.G.

President

Dr. Satyabrata Mohanta, Director

Vice-President

Mr. Sandeep Sahoo, Asst. Prof. Mett. & Mat. Engg.

INSTITUTION OF ENGINEERS (INDIA)

IE(I) Co-ordinator & Faculty Advisor, IGIT
Students' Chapter, IE(I)

Mr. B.D. Biswal, Asst. Prof. Elect. Engg.

ISTE CHAPTER

Secretary Faculty Chapter and Faculty Advisor, IGIT
Students Chapter

Dr. Rabindra Behera, Asso. Prof. Elect. Engg.

BOOK BANK

Officer-in-Charge

Dr. S. K. Senapati, Professor, Mech. Engg.

TIME TABLE

Co-Ordinator

Dr. Md. N. Khan, Asso. Prof. Physics

Asst. Co-Ordinator

Mr. Sudhakar Majhi, Asst. Prof. Mech. Engg.

Examination

Controller of Examination (Autonomy)

Dr. Md. N. Khan, Associate Prof. Physics Deputy

Controller of Exam (Autonomy)

Mr. P. K Pasayat, Asst. Prof. ETC Engg CENTRE

SUPERINTENDENT

University Exams. (UG & PG)

Dr. S. Sethi, Asso. Prof. CSE & A

Council Exams. (Diploma)

Dr. S. K. Tripathy, Asst. Prof. Physics

ASST. CENTRE SUPERINTENDENT

University Exam (UG/PG)

Sri R. Murmu, Asst. Prof. Chem Engg

Sri R. Patel, Asst. Prof. Mech Engg

Council Examinations (Diploma)

Dr. S.K. Patra, Asst. Prof. CSE & A

Sri Kashinath Barik, Asst. Prof., Chem. Engg.

NCC

Officer-in-Charge

Lt. M.P. Behera, Asst. Prof. Elect. Engg

HEALTH CLUB (Gymnasium)

Officer-in-Charge

Dr. D.K. Behera, Asst. Prof. Mech. Engg.

Asst. Officer-in-charge

Mr. Rajanikanta Mishra

TEACHERS' COUNCIL

Secretary

Dr. N.C. Nayak, Asst. Prof. Mech Engg.

DATA CENTRE

Prof. in-Charge

Dr. N.C. Nayak, Asst. Prof. Mech. Engg.

Prof. I./Institute Website

Mr Gaurab Ku Ghosh, Asst. Prof. Mech. Engg.

Internet Administrator & Co-ordinator

Dr. S. N. Mishra, Prof. & Head, CSE & A

Dr. S.K. Patra, Asst. Prof. CSE & A

Sri S. K. Mansingh, T.A, Electrical

Co-ordinator, Robotics

Dr B.B. Choudhury, Asso. Prof. Mech. Engg.

e- Abhijog Cell

Nodal Officer

Dr. S. Sethi, Asso. Prof. CSE & A

Nodal Officer AISHE

Dr. S.K. Patra, Asst. Prof. CSE & A

3. COURSES OFFERED

1. 4 years Bachelor of Technology Courses:
 - i. Chemical Engineering with 60 admission intake
 - ii. Civil Engineering with 120 admission intake
 - iii. Electrical Engineering with 120 admission intake
 - iv. Mechanical Engineering with 120 admission intake
 - v. Metallurgical and Materials Engineering with 60 admission intake
 - vi. Computer Science Engineering (Under self-finance scheme) with 60 admission intake
 - vii. Electronics & Telecom. Engineering (Under self-finance scheme) with 60 admission intake
 - viii. Production Engineering with 60 admission intake
2. 5 years Bachelor of Architecture. (30 admission Intake)
3. 3 years Master in Computer Applications (M.C.A.) Course (60 admission Intake)
4. M. Tech Courses:

Civil Engineering

Structural Engineering
Geo Technical Engineering

Transportation Engineering

Environmental Science & Engineering (PT)

Electrical Engineering

Power System Engineering

Energy System Engineering
Power Electronics and Drives

Industrial Power Control and Drives (PT)

Mechanical Engineering

Mechanical System Design

Production Engineering

Thermal Engineering

Electronics Engineering

Electronics & Telecommunication Engineering
Wireless Communication Technology

Computer Sc. & Engineering

Computer Science & Engineering
Computer Science & Information Security

Chemical Engineering

Chemical Engineering

Mett. & Materials Engineering

Metallurgical and Materials Engineering

Industrial Metallurgy

5. Two years M.Sc. courses in Applied Chemistry, Applied Physics & Applied Mathematics
6. 3 years Diploma Engineering Courses :
 - i. Civil Engineering with 60 admission intake
 - ii. Electrical Engineering with 60 admission intake
 - iii. Electronics & Telecommunication Engineering with 25 admission intake

- iv. *Mechanical Engineering with 60 admission intake*
- v. *Metallurgical Engineering with 60 admission intake*

Affiliation :

- i. *All B. Tech, B. Arch., MCA & M. Tech and M. Sc. Courses are under Autonomy of IGIT Sarang.*
- ii. *All Diploma Courses are affiliated to State Council for Technical Education & Vocational Training, Odisha, Bhubaneswar*

4. DEPARTMENT OF CHEMICAL ENGINEERING

A. Faculty Members

Name and Qualification	Fields of Specialisation
PROFESSORS:	
1. Dr. S. B. Mohanta (Head of the Department) B.E., M. Tech (IIT-D), Ph. D (IIT-KGP) Email_ID: satyabrata.mohanta12@gmail.com	B.Tech(BPUT), M.Tech(Jadavpur University), Ph. D continuing (Jadavpur University), LMIE, LMIAENG, LMIACST Email_ID: h.k.sutar@gmail.com
ASSISTANT PROFESSORS:	
2. Dr. Dipa Das B. Tech., M.Tech(NIT, RKL), Ph.D(IIT-KGP) Email_ID: dipa.das80@gmail.com	9. Mrs. Brahmotri Sahoo B. Tech(BPUT), M. Tech(NIT, RKL) Ph. D continuing (Utkal University) Email_ID: brahmotri.s@gmail.com
3. Mrs. Ipsita D. Behera B.Tech, M.Tech (NIT, RKL) (On Study Leave to IIT-KGP for Ph.D) Email_ID: ipsitadbehera@gmail.com	
4. Mr. Kashinath Barik B. Tech (BPUT), M. Tech (IIT, KGP) Ph.D continuing (IIT Dhanbad) Email_ID: kashinath.009@gmail.com	
5. Mr. Anup Kumar Swain B.E. (UU), M.E. (MSU) LAMICHe, LMISTE, LMOBA (Ph.D continuing NIT, RKL) Email_ID: anup.k.swain@igitsarang.ac.in	
6. Mr. Anup Kumar Bairagi B. Tech(BPUT), M. Tech, IIT Roorkee, Ph. D continuing (Utkal University) Email_ID: 068532@gmail.com	
7. Mr. Rabiranjana Murmu B. Tech (BPUT), M. Tech (IIT, Madras) Email_ID: rabiranjana_murmu@rediffmail.com	
8. Mr. Harekrushna Sutar	

Process Engg. & Design, Mineral beneficiation, Plant optimization

Industrial Pollution Abatement

Coal Chemicals and Fertilizer, Pollution control, CO₂ capture, fluidization, waste water treatment

Fuel Cell Membrane, Chemical Reaction Engineering, Biodiesel production

Biotechnology, coal beneficiation

Water Treatment Technology, thin film and surface coating, Composite materials

Transport phenomena, mineral processing, modelling and simulation

Fluidization Engineering, Coal Beneficiation, Process calculation

Polymer Tech., Process Calculations, Mechanical Operations, Mass Transfer Operations

ASSISTANT PROFESSORS (CONSOLIDATED):

10 Mr. Santosh K. Barik

B.Tech (BPUT), M.E (MS University of Baroda)

Email_ID: santoshbarikctc@gmail.com

Polymer Technology, Biotechnology, Waste water treatment

11 Mrs. Lakshmi Sethy

B.Tech (NIT), M. Tech (IIT, Roorkee)

Email_ID: sethi.laxmi1989@gmail.com

Waste Water treatment, Biochemical Engineering

12 Dr. SudipBanerjee*Chemical Process Modelling, Simulation and Control**B.Tech(Haldia Institute of Technology) (Vidyasagar University)**M.Tech(NIT,Durgapur),Ph.D(IIT,KGP)**Email_ID: consudip@gmail.com***B. Laboratory Facilities**

The department has the following state-of-the-art and well equipped laboratories.

- i. Fluid FlowLab.*
- ii. Chemical TechnologyLab.*
- iii. Fuel TechnologyLab.*
- iv. Heat TransferLab.*
- v. Mass Transferlab.*
- vi. Process ControlLab.*
- vii. Chemical Reaction Engineering Lab.*
- viii. Computer Aided DesignLab.*
- ix. Computer Lab.*
- x. Biotechnology Lab*
- xi. Process InstrumentationLab*

As the institute is located in an industrial belt, which boasts of different Chemical, Metallurgical & Power sectors, there is ample opportunity for proper interaction and adequate practical training for the students. Keeping aforementioned development in view, the department is offering courses to provide Bachelor Degree in Chemical Engineering since 1994.

C. Research Activities

Thefollowingresearchactivitiesarepresentlygoingonandagoodnumberofpapersinthefollowing area are published, in National and International Journals.

- i. Coal Washing*
- ii. Fluidization*
- iii. Simulation & Modelling*
- iv. Waste water treatment and Characterization*
- v. Mineral Processing*
- vi. Activated carbon*
- vii. Fuel Cell Membrane*
- viii. Biochemical Engineering*
- ix. Polymer Synthesis and Characterization*
- x. Carbon Dioxide Capture*
- xi. Adsorption*
- xii. Composite Materials*

D. Project and consultancy

1. On Going Research Projects

National

- i. S. Mohanta, B. Sahoo, 2018, "Up gradation of Indian iron ore fines (-1 mm + 45 μ m), slimes, low grade ores and tailings by Teeter bed separator". Science and Engineering Research Board, India; Total cost Rs. 30,60,000
- ii. S. Mohanta, 2017, "Modernization of the existing Fuel Technology Laboratory to enhance our academic and research dimensions". All India Council for Technical Education (AICTE); Total cost Rs. 10,50,000

2. Completed Research Projects

International

- i. S. Mohanta and C. H. Sampaio, 2014, "In Plant Evaluation and Comparison of the Separation Efficiencies for Different Coal Washing Devices". DST (India)-CNPq (Brazil); Total cost US\$ 36520

National

- ii. S. Mohanta, 2013, "Development of Mathematical Models for Blending of High-ash Non-coking Coal Towards Total Quality Assurance". The Institution of Engineers (India); Total cost Rs. 50000

Apart from these the department also offers consultancy services to the nearby industries.

E. Scope of Chemical Engineering

The Chemical Engineering graduates have bright scope of employment in Fertilizer, Petrochemicals, Cement, Metallurgical, Paper and Pharmaceutical & Software Industries. The course structure has been revised in accordance with the need of different industries. To cope with the demand of software engineers, the department is putting extra emphasis on computer related subjects. The department arranges industrial study tours to make the students acquainted with different industries. The department has one Chemical Engineering Society, which is actively engaged in all total development of the students. This department is also a Student Chapter of Indian Institute of Chemical Engineers, which is actively involved in various student related activities.

5. DEPARTMENT OF CIVIL ENGINEERING

A. Faculty Members

Name and Qualification	Fields of Specialisation
PROFESSORS :	
1. Dr. Sudeep Kumar Chand B. Sc. Engg., M.Sc. Engg. (NITRKL, SU), Ph. D. (IIT, KGP), MISTE (Deputation to OJEE as Chairman)	Geotechnical Engineering
2. Dr. Manoj Kumar Dash B.Sc. Engg. (SU), M.Tech., IIT(Roorkee) Ph. D. (IIT, KGP), MISTE	Structural Engineering
3. Dr. Bikash Chandra Panda B. Sc. Engg., M.Sc. Engg. (SU), Ph.D. (IIT, KGP), MISTE	Structural Engineering Geotechnical Engineering
4. Dr. Maheswar Maharana B.Sc. (Hons), C. Engg. (Civil) M.Sc. Engg. (NIT, SU), Ph.D. FIE (India)	Structural Engineering,
5. Dr. Pratap Kumar Pani (Head of the Department) B.Sc. Engg. & M.Sc. Engg. (NITRKL, SU) Ph.D. (IIT, Kharagpur), MISTE, FIE Email_ID: pkpani65@yahoo.com	
6. Dr. Tushar K. Nath B.Sc. Engg. (Hons) Utkal M.Tech., Ph.D. (IIT, Kharagpur), MISTE	Water Resources Engineering
ASSOCIATE PROFESSORS :	
7. Dr. Chittaranjan Sahoo B.E. (Hons) Utkal, M.Tech. Ph.D. (IIT, KGP) MISTE, MIE, C. Engg. (India) Email_ID: crsahoo65@yahoo.co.in	Email_ID: gkpothal@gmail.com
8. Dr. Rabindra Kumar Kar B.Sc. (Engg.) & M.Sc. Engg. (S.U) Ph.D. (S.U.) MISTE, MIRC, MIE, C. Engg. (India)	
9. Dr. Goutam Kumar Pothal B.Tech. (OUAT), M.E. (SU) Ph.D. (IIT, Delhi), MISTE	

Environmental Engineering

Transportation Engineering Geotechnical

Engineering

ASSISTANT PROFESSORS

- | | |
|--|--|
| <p>10. Mr. Suraj Kumar Sahu
B.E. (Utkal) M. Tech.(SU)</p> | <p>Structural Engineering Construction
Tech.&Management Structural</p> |
| <p>11. Mr. Bhagirathi Tripathy
B.E.(Utkal),M.Tech(NIIT,Chandigarh), Ph.D(Utkal)</p> | <p>Engineering</p> |
| <p>12. Mrs. Priyadarshini Das
M.Tech(NIT),Ph.D(ContinuingatIITKGP)</p> | <p>Geo Technical Engineering</p> |
| <p>13. Mr. Aditya Kumar Bhoi, B.Tech
(Utkal),Mtech(IITBombay) Ph.D
(ContinuingatIITBombay)</p> | <p>Transportation Engineering</p> |
| <p>14. Mr. Sujit Kumar Pradhan, B.Tech.(Utkal),
M.Tech.(IEST, Shibpur) Ph.D(ContinuingatIIT
Bhubaneswar) Email_ID:
skp14@iitbbs.ac.in</p> | |

15. **Miss Adyasha Priyadarshini,**
B.Tech(ITER, Bbsr(BPUT),M.Tech(NIT RKL).

ASSISTANT PROFESSORS (CONSOLIDATED):

16. **Mr PratikAcharya**
M Tech. (TEQIP-III)

B. Laboratory Facilities:

17. **Mr. PrateekMishra**
M.Tech (TEQIP-III)

18. **Mr NimmaRambabu**
M.Tech (TEQIP-III)

19. **Mrs SushreeSangita**
M.Tech (NIT, Rkl)
Email_ID:sushreesangita87@gmail.com

20. **Mrs P.P.Mohapatra**
M.Tech (VSSUT)
Email_ID:pragayan.pmohapatra@gmail.com

- 21 **MrsSwetankitaSahoo**
M.Tech (VSSUT)
Email_ID:sahoo.swetankita91@gamil.com

- 22 **Mr. AbhijeetDas**
M.Tech (CET, BBSR)

- 23 **MrsAryalaxmiPriyadarshini**
M.Tech (BPUT)
Email_ID: arya1234priyadarshini@gmail.com

- 24 **Mrs P.D.Das**
M.Tech (ITER)
Email_ID:pragyna.das6789@gmail.com

- 25 **MsP.Subhasmita**
M.Tech (IGIT, Sarang)
Email_ID:rksubhasmita@gmail.com

- 26 **Mr. KundanKumar**
M.Tech

Water Resource Engineering

Water Resource Engineering

Environmental Engineering Structural

Engineering

*WaterResourceEngineering&
Management*

Geo Technical Engineering

Structural Engineering

Transportation Engineering

Structural Engineering

Transportation Engineering

Environmental Engineering

The department has the following well-equipped laboratories to cater to the needs of the undergraduate as well as postgraduate programmes.

- i. Environmental EngineeringLaboratory*
- ii. GeologyLaboratory*
- iii. Geotechnical EngineeringLaboratory*
- iv. Hydraulic Engineering Laboratory*
- v. Structural Engineering Laboratory*
- vi. Transportation EngineeringLaboratory*
- vii. Departmental ComputerCentre.*

C. Project and Consultancy:

With the financial grant received from the Ministry of H.R.D., Govt. of India, modernisation as well as research & development projects have been undertaken in Geotechnical Engineering, Environmental Engineering, Transportation Engineering, Hydraulic Engineering and Structural Engg. Laboratories.

The department regularly offers Consultancy service to a number of agencies including government and public sector undertakings such as PWD, OBCC, NALCO, NTPC, TTPS, MCL, CMPDI, RITES, RRCC, TAMRIT, GAMMON INDIA, GANNON DUNKERLY etc.

D. Research Activities:

Research activities imparts momentum to the growth and is the hall mark of any academic department. With the limited facilities available for such activity in the department, its faculty are carrying out research in some frontier areas of Civil Engg. as listed below :

- i. Earthquake resistant design and construction practices. Advanced Structural materials.
- ii. Fluid Structure interaction.
- iii. Waste utilisation in construction.
- iv. Pavement Materials.
- v. Structural Dynamics
- vi. Geotechnical applications of flyash.
- vii. Stabilisation of expansive soils.
- viii. Air Pollution
- ix. Waste Water Treatment
- x. Solid and hazardous waste management

A good number of papers in the above area are being presented and published at national and international conferences as well as in reputed national and international journals.

E. SCOPE OF CIVIL ENGINEERING.

Civil Engineering, the oldest and the parent branch of the Engineering is as old as human Civilization that concerns itself with construction and maintenance of public utilities like buildings, roads, bridges, water supply system etc. Rapid industrialisation and urbanisation has given birth to challenging construction of skyscrapers, flyovers, long span bridges, atomic power plants, gigantic industrial complexes etc. to mention a few. To accomplish such feats optimally, design and construction management has taken roots in Civil Engineering. With continued technological advancements, the scope of the Civil Engineering has further broadened and diversified into new areas such as Computer Aided Design, Computer Aided Drafting, Offshore Technology, Earthquake Engineering, Robotic Construction, Space Structures etc.

A Student graduating in Civil Engineering can opt for employment in state and central government departments, defence services, public and private sector undertaking and privately owned consulting firms and construction firms. He may also become an entrepreneur. The interested graduates may prosecute higher studies in conventional or specialised fields and may join R & D organisations or choose teaching as a profession.

The department has highly qualified faculty. Besides being imparted by textual knowledge, students are accompanied by faculty members to nearby construction sites and industrial organisations for acquainting them with field practices and visual appreciation.

The AICTE has approved 2 years regular P.G. programme in Structural Engg., Geo Tech. Engg. and part time P.G. Course in Environmental Science and Engineering as a Continuing Education Programme for regular as well for the engineers employed in the nearby organisation. The introduction of few .P.G. courses would further enhance the academic excellence in the department. This Department has been recognised as a QIP Centre by AICTE/MHRD and centre of excellence by State Government

6. DEPARTMENT OF ELECTRICAL ENGG

A. Faculty Members:

Name and Qualification	Field(s) of Specialization
PROFESSOR:	
<p>1. Dr. Bibhu Prasad Panigrahi, B. Sc. Engg. (Hons.) (SU), M.Tech (IIT Bombay) Ph.D (IIT Kharagpur), LMISTE, LMSSI, LMOBA, FIE Email_ID: bibhu89@yahoo.com</p>	<p>Electrical Machines, Machine Drives, Power Electronics, Power Systems</p>
ASSOCIATE PROFESSORS:	
<p>2. Dr. (Mrs.) Pranati Das, (Head of the Department) B.Sc. Engg. (Hons.) (SU), M.Tech. (IIT Kharagpur), Ph.D (IIT Kharagpur), LMISTE, FIE Email_ID: daspranati@yahoo.co.in pranatidas@igitsarang.ac.in</p>	<p>Communication Engineering, Digital Signal Processing, Image Processing</p>
<p>3. Dr. Rabindra Behera, BE (IGIT Sarang), M.Tech. (UCE, Burla), Ph.D (Sambalpur University), MIEEE, LMISTE Email_ID: b_rabindra@yahoo.co.in</p>	<p>Power Systems Engineering, Control Systems Engineering</p>
ASSISTANT PROFESSORS	
<p>4. Mr. Rabisankar Subudhi, B.Sc. Engg. (SU), M.Tech. (IIT Kharagpur), MISTE Email_ID: rsub.igit@gmail.com</p>	<p>BE (IGIT Sarang), M.E (Jadavpur University), Ph.D (Utkal University) continuing Email_ID: igit2001umakanta@gmail.com</p>
<p>5. Mr. Maheswar Prasad Behera, BE (IGIT Sarang), M.Tech (UCE, Burla) Ph.D (NIT Rourkela) continuing Email_ID: maheswar17207@gmail.com</p>	<p>8. Mr. Brijesh Kumar, BE (IGIT Sarang), M.Tech. (KIIT, Bhubaneswar), LMISTE, Ph. D (Utkal University) continuing. Email_ID: brijesh@igitsarang.ac.in</p>
<p>6. Mr. Bidyadhar Biswal, AMIE (I) in Electrical Engineering, ME (UCE, Burla), Ph.D (Utkal University) continuing, Email_ID: bidya_igit@rediffmail.com</p>	<p>9. Mr. Manoj Kumar Chaudhury, BE (IGIT Sarang), M.E (Jadavpur University), Ph.D (IIT Roorkee) continuing (on QIP study leave) Email_ID: mcelect05@gmail.com</p>
<p>7. Mr. Umakanta Mahanta,</p>	<p>10. Mr. Kali Charan Pradhan,</p>

B.Tech(GCE,Keonjhar),M.Tech(VSSUT,Burla)Email_ ID:
kali4028@gmail.com

Digital Signal Processing, Communication
Engineering

11. Mr. Binay Kumar Nayak,

B.Tech(BPUT), M.Tech(NIT,Calicut)

Power System Engineering

Email_ ID: binay.nayak@yahoo.co.in

Power Systems Engineering

High Voltage Engineering,
Electrical Drives

Power Electronics and Drives

Electrical Machine

Power System Engineering

Industrial Power and Automation

ASSISTANT PROFESSORS (CONSOLIDATED):

12. **Mrs. Mohamayee Mohapatra**, B.Tech(BPUT),
M.Tech(NIT,Rourkela) Email_ID:
mohamayee@gmail.com
B.Tech(Hindustan University), M.Tech (IIT, Guwahati)
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13. **Ms. RosalinPradhan**,
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14. **SriAdityaKumarPati**,
B.Tech (BPUT), M.Tech(BPUT)
Email_ID: adityakpati@gmail.com
15. **Ms. RajashreeSahu**,
B.Tech (BPUT), M.Tech (VSSUT, Burla)
Email_ID: rajashreesahu.vssut@gmail.com
16. **Mr.Madhab Chandra Das**,
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17. **Ms. ShristyNaik**,
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18. **Mr. Bibhu Prasad Ganthia**, B.Tech(BPUT),
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jb.bibhu@gmail.com
19. **Mr. NarottamMoharana**,
B.Tech (IGIT Sarang), M.Tech (IGIT Sarang)
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20. **Mr.LalitenduShekharBarik**,
B.Tech (GCE, Kalahandi), M.Tech (IGIT Sarang)
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21. **Mr.Jajna Prasad Sahoo**
B.Tech(GCE, Keonjhar) M.Tech (NIT, Silchar)
Email_ID: jajnaprasadsahoo@gmail.com
22. **MrPriya Pritam Panda**
23. **Ms. GyanamanjariSahoo**
M.Tech (NIT, Rourkela)
Email_ID: gyanamanjari28@gmail.com
24. **Ms. BinodineeSwain**
B.Tech(SIT, Bhubaneswar) M.Tech (IGIT, Sarang)
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25. **Ms. AbhipsaKiran**
B.Tech(ITER) M.Tech (VSSUT, Burla)
Email_ID: abhipsakiran3038@gmail.com
26. **Mr. Chinmay Ku Nayak**
B.E(ManipalUni.),M.Tech(ITER,Bhubaneswar)
Ph.D Cont.UU
Email_ID: chinmaynayak009@gmail.com
27. **Mr. Bikasha Ku Garnayak** B.Tech(SIET,
Dhenkanal), M.Tech (Adarsh) Email_ID:
bkgarnayak99@gmail.com

Power Control and Drives

Control & Instrumentation

Power System Engineering

Energy System Management

Power Electronics and Drives

Power System Engineering

Power Electronics, Control and Drives

Power Electronics and Electrical Drives

Industrial Electronics

PowerElectronicsandDrives

PowerElectronicsandDrives

PowerElectronicsandDrives

Power and Energy System Engg.

RF & Photonics

Industrial Electronics

Power System Engineering

28 Mr.ApareshPrasadBiswal *Power System Engineering*

B.Tech(SIET, Dhenkanal), M.Tech(IGITSarang)

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29 Ms.RitambharaPradhan *PowerElectronics&Drives*

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PowerElectronics&Drives

30 Mrs.SampratiMohanty *Power System Engineering*

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31 Mr.ManojKumarMoharana

Email_ID: manojkumar.tech@gmail.com

ASST.PROF.(CONSOLIDATEDUNDERTEQIP-III)

32 Mr. Subrat Kumar Biswal, *Power System Engineering*

B.Tech (CET, Bhubaneswar) M.Tech (IIT, ISM

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33 Mr. BiswajitSahoo, *Power Electronics and Drives*

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34 Mr.VVSuryaSrinivasKarri, *Power System*

B.Tech(SRKREngg.College,AndhraPradesh), M.Tech (NIT, Trichy)

Email_ID: mukesh.vasu369@gmail.com

35 Dr. AditiChatterjee, *Renewable Energy*

B.Tech (IGIT Sarang), M.Tech (VSSUT, Burla), PhD (NIT Rourkela)

Email_ID: contactaditi247@gmail.com

B. Laboratory Facilities :

The Department has following laboratories with sophisticated instruments to provide practical instructions to the students during their Diploma, B.Tech, M.Tech and Ph.D courses.

- i. Energy Conversion Laboratory (Electrical Machine Lab.)
- ii. Instrumentation and Control Laboratory
- iii. Analog Electronics Laboratory

- iv. *Microprocessor and Digital Electronics Laboratory*
- v. *Power Electronics and Drives Laboratory*
- vi. *Robotics and Artificial Intelligence Laboratory*
- vii. *Electrical Workshop*
- viii. *Power System and Simulation Laboratory*
- ix. *PC Laboratory*
- x. *Basic Electronics Engineering Laboratory*
- xi. *Network Devices Laboratory*
- xii. *Basic Electrical Engineering Laboratory*
- xiii. *Energy System Engineering Laboratory*

C. Projects Undertaken:

The department has achieved remarkable growth in laboratory facilities for students and research activities for the faculty members which have been possible due to the following Government of India Projects:

- i. Modernization of Electrical Engineering Laboratory (1989)
- ii. Microprocessor Application Laboratory (1991)
- iii. Modernization of Microprocessor and Digital Electronics Laboratory (1992)
- iv. Strengthening of facilities in Instrumentation (1992)
- v. Strengthening of facilities in Computer Science and Technology (1992)
- vi. Modernization of Computer Centre (1992)
- vii. Modernization of Electrical Engineering Laboratory (1992)
- viii. Thrust Area Project on Control System including Computerized Control in Industry (1995)
- ix. Modernization of Electrical Engineering Laboratory (1999)
- x. AICTE Research Project on AI & Robotics. (2000)
- xi. AICTE Research Project on Design of Controllers for flexible Robots. (2004)
- xii. AICTE Research Project on Development of DTC based low cost analog torque Controller for low power induction motor drives used in small scale industries. (2008)
- xiii. DST project on Design and Development of DSP/FPGA based digital controller for hybrid active power filter applied to industrial nonlinear loads in distribution system. (2012)
- xiv. AICTE MODROBS project for modernization of PC lab of Electrical Engineering Department. (2013)
- xv. AICTE MODROBS project for modernization of Power System lab of Electrical Engineering Department. (2013)
- xvi. RPS/AICTE project on Detection, Classification and location of the fault in a transmission line including STATCOM. (2017)
- xvii. AICTE MODROBS project for modernization of Energy Conversion Lab of Electrical Engineering Department. (2017)

D. Research Activities:

Research and Development play a crucial role in the development of improved products and processes related to electrical utilities and industries. The Department has created a culture of it with implementable outcome. Every year a good number of technical papers are published in international as well as national journals / conferences.

Active Research is being carried out in the field of:

- i. Non Linear Control Engineering
- ii. Power System Dynamics
- iii. Image Processing
- iv. Energy Conversion
- v. Machines and Drives
- vi. Robotics
- vii. Intelligent Control
- viii. Renewable Energy
- ix. Smart Grid
- x. Power System Planning & Management
- xi. Power System Protection

- xii. *Power Electronics & Drives*
- xiii. *High Voltage Engineering*
- xiv. *Energy System Engineering*

E. Scope of Electrical Engineering:

Electrical Engineering formulates the basic stream of technology that embraces the basis of all other allied branches including fundamental Science. Diversification of the branch ahead into Instrumentation, Control and Electronics etc. have still further widened the horizon of Electrical Engineering with new concept of development to meet the national needs in the context of globalised economy today.

An Electrical Engineering student will have the scope of taking professional fields such as Electrical Equipment, Design and Development, Power Industry, Integrated Grid System, Traction, Computer Industry etc.

Interested students can go for PG specialization in advanced subjects like Power System Engineering, Electrical Machines and Drives, High Voltage Engineering, System Automation, Energy Engineering etc. and other interdisciplinary courses like VLSI, Robotics, Computer Science, Bio-medical Engineering etc. The student of Electrical Engineering can settle up for a challenging career in the public / private sectors like SAIL, BHEL, PGCIL, NHPC, NPC, BARC, COAL INDIA, CGL, NALCO, Software Companies, State and Central Government services etc, which only reflects the huge potential of the subject. They can also join teaching, R & D or Management Institutions.

Electrical Engineering Education today is changing very fast which needs constant development in the curricula and programme of studies in technical institutions. With this in view, both the Diploma and under graduate courses in Electrical Engineering have been thoroughly revised.

Electrical Engineering Department with rich traditions of excellence now has carved a place of pride in the state. It has attracted the best and brightest among the teachers with strong commitments, and students with gleaming talent and perseverance.

Department of Electrical Engineering conducts national level seminars and staff development programmes on a regular basis to extend its effort to update faculty and students in the recent developments of technologies. A separate departmental library is functioning with adequate books and journals for the benefit of the students as well as faculty members.

In addition to the Diploma and B.Tech programmes in Electrical Engineering, the department also offers three M.Tech courses: (i) a part-time M.Tech course in Industrial Power Control & Drives since 2008-09

(ii) a full-time M.Tech course in Power System Engineering since 2013-14 and (iii) a full-time regular M.Tech course in Power Electronics and Drives since 2014-15 and (iv) a full-time regular M.Tech course in Energy Systems Engineering since 2015-16. The faculty members of the department supervise Ph.D students in the research areas such as Machine Drives, Power Electronics, Control System Engineering, Power Systems Engineering Signal and Image Processing etc.

The Department of Electrical Engineering also offers Ph.D course in different specializations under quality improvement programme (QIP) as approved and sponsored by AICTE, New Delhi from the year 2012-13.

7. DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING

A. Faculty Members:

Name and Qualification	Field of Specialization
ASSOCIATE PROFESSORS:	
1. Dr. (Mrs.) Urmilabhanja (Head of the Department) B.Sc. Engg. (M.U.), M.Tech. (IIT Kharagpur) Ph.D. (IIT KGP), MISTE Email_ID: urmilabhanja@gmail.com	Optical Wireless communication, Optical & sensor & Wireless Networking, Soft Computing, Optimization Techniques
ASSISTANT PROFESSORS:	
2. Dr. Ashima Rout BE(UU), M.Tech. (Jadavpur University) MISTE, PhD (UU) Email_ID: ashimarout@gmail.com	Communication Engineering & Wireless Networking. Electronics Communication Systems, Soft computing, Communication Network
3. Dr. Debajyoti Mishra B. Sc. Engg. (SU), M.E. (NIT, RKL), PhD (UU) Email_ID: deba.igit@gmail.com	Signal Processing
4. Mr. Janmejaya Rout BE(UU), M.Tech. (IIT, Guwahati) PhD (Contd) (On study leave) Email_ID: jrout.2006@gmail.com	Instrumentation & Electronics Engineering
5. Mr. Kodanda Dhar Sa B.Tech (UCE, Burla), M.Tech. (Jadavpur University) Email_ID: kdseltc@gmail.com	
6. Mr. Paresh Kumar Passayat B.Tech (BPUT) M.Tech (VSSUT, Burla) Email_ID: pareshpasayat@yahoo.co.in	Communication System Engineering
ASST. PROFESSORS (Consolidated) (Self-financing, IGIT):	
7. Mrs. Jemimah Digal B.Tech (SHIATS, Allahabad), M.Tech (Karunya University, Coimbatore, TN) Email_ID: digal.jemimah.jemimah@gmail.com	Email_ID: monalisa.nayak11@gmail.com
8. Ms. Monalisa Nayak B.Tech. (BPUT), M.Tech (SOA), PhD (Cont.)	9. Mrs. Manjushree Jena B. Tech (BPUT) & M. Tech (CUTM) Email_ID: manjuu20@gmail.com
	10. Mr. Abinash Kumar Pujari

B.Tech (BPUT), M.Tech (VSSUT)

Email_ID: abinash.pujari25@gmail.com

Communication system Engineering

11 Ms JyotirekhaDas

B.Tech (BPUT), M.Tech(BPUT)

Communication Engineering

12 Mr. DillipDash

B.Tech (BPUT), M.Tech (SOA), PhD (VIT, TN) Cont

Email_ID: dillipdash106@gmail.com

Communicaton System Engineering

Communicaton System Engineering

Communication System Engineering

Communication System Engineering

- | | | |
|----|--|---|
| 13 | <p>Mrs. Debapriya Parida B.Tech (BPUT), M.Tech (KIIT) Email_ID: dparida85@gmail.com</p> | Communication System Engineering |
| 14 | <p>Mrs. Meghamala Samant
B.Tech (BPUT), M.Tech (BPUT)</p> | Signal Processing Engineering Microwave Engineering |
| 15 | <p>Miss Smrutirekha Prusty
B.Tech (BPUT), M.Tech (VSSUT)</p> | VLSI |
| 16 | <p>Mrs. Saptamee De Saha
B.Tech(Bankura Unnoyanil Institute of Engineering) M.Tech (Maulana Abul Kalam Azad University of Technology)
Email_ID: sonaidalu@gmail.com</p> | |
| 17 | <p>Mr. Susanta Kumar Samal
B.Tech(BPUT), M.Tech(VSSUT, Burla)</p> | VLSI & Signal Processing |
| 18 | <p>Mr. Pradyumna Kishore Samal
B.Tech(BPUT), M.Tech(BPUT)</p> | VLSI & Embedded System Design |
| 19 | <p>Dr. Haimabati Das
B.Tech(BPUT), M.Tech(VSSUT, Burla), Ph.D(IIT, KGP)
Email_ID: haimabatidas@gmail.com</p> | |
| 20 | <p>Mr. S.R. Mishra
M.Tech
Email_ID: srmishra.3487@gmail.com</p> | Communication Engineering |
| 21 | <p>Mr. Abinash Sahoo
M.Tech
Email_ID: abinash.sahoo35@gmail.com</p> | Signal Processing Engineering |
| 22 | <p>Mr. Lakhmikanta Mishra
M.Tech
Email_ID: lakhmikanta72@gmail.com</p> | VLSI & Embedded System |
| 23 | <p>Mr. Bikash Sahoo
M.Tech (SLIET) Longowal University
Email_ID: bikashsahoo2020@gmail.com</p> | Electronic Communication Engineering (Antenna) |

B. LABORATORY FACILITIES:

The Department has following laboratories with sophisticated instruments to provide practical instructions to the students during their Diploma & B. Tech Courses.

- i. Communication Engineering Laboratory
- ii. Instrumentation & Control Laboratory
- iii. Analog Electronics Laboratory
- iv. Microprocessor and Digital Electronics Laboratory
- v. Digital Signal Processing Laboratory
- vi. Artificial Intelligence Laboratory
- vii. VLSI Design Laboratory
- viii. General Computing Facility Laboratory
- ix. Microwave Engineering Laboratory
- x. Basic Electronics Laboratory

C. PROJECTS UNDERTAKEN:

The Department has achieved remarkable growth in laboratory facilities for students and research activities for the faculty members which have been possible due to the following Government of India Projects:

- i. *Modernisation of Electrical Engg. Laboratory (1989)*
- ii. *Microprocessor Application Laboratory (1991)*
- iii. *Modernisation of Microprocessor and Digital Electronics Laboratory (1992)*
- iv. *Strengthening of facilities in Instrumentation (1992)*
- v. *Strengthening of facilities in Comp. Science & Technology (1992)*
- vi. *Modernisation of Computer Centre (1992)*
- vii. *Modernisation of Elect. Engg. Laboratory.*
- viii. *Thrust Area Project on Control System including Computerised Control in Industry (1995)*
- ix. *Modernisation of Elect. Laboratories. (1999)*
- x. *AICTE Research Project on AI & Robotics (2000)*
- xi. *AICTE Research Project on Design of Controllers for flexible Robots (2004)*
- xii. *AICTE Research Project on Optical Network (2013)*
- xiii. *Modernization of Communication Engg. Laboratory (2014) (Proposals submitted)*

D. RESEARCH ACTIVITIES :

Research and Development activities have been very significant in the present context as far as vast change in technology is concerned in the upcoming fields. The Department has created a culture of its own application oriented outcomes.

Every year a good number of technical papers is published in international as well as national Journals/Conferences. Active research is being carried out in the field of :

- i. *Signal Processing and Image Processing*
- ii. *Wireless Communication & Cognitive Radio Networks.*
- iii. *Robotics*
- iv. *VLSI*
- v. *Optical Communication and Optical Network*
- vi. *Intelligent Control*

E. SCOPE OF ELECTRONICS & COMMUNICATION ENGINEERING:

The present academic scenario of the Department envisaged its potential status as far as official and student's activity is concerned. The Diploma Programme in Electronics and Telecommunication Engineering has been in existence since the inception of the Institute. The course is approved by the SCTE & VT. The current intake capacity for the said course is 25 students.

The Institute started its B. Tech programme in Electronics and Telecommunication Engineering (E&TC) in the year 2008 with an approval from All India Council for Technical Education (AICTE) with an intake capacity of 50 students. This programme aims at producing Engineers with in-depth and sound knowledge in Electronics Engineering and a strong background in communication. The Department has started two Post Graduate Programmes in Electronics & Communication Engg and Wireless Communication Technology specialisation in 2014 and 2015 respectively.

This budding Department provides Diploma and Undergraduate programs simultaneously with an objective to prove its excellence, which emphasizes fundamental principles that responds to and able to generate technological change. The programs are designed to challenge the exceptional talent of ongoing students, ensuring to build up the technocrat ability among them so that they are equipped to target for a leadership role and to be competent enough with proven credentials. The students are ought to have the scope of opting professional fields such as, Design and Development of Electronic Equipments, Wireless Communication & networking system, VLSI Design & Instrumentation, Remote Sensing, Signal Processing, and Bio-medical Engineering Applications etc. Challenging careers in the public sectors like IES, MTNL, BSNL, DRDO, BARC, SAIL, BHEL, NTPC, PGCIL, ECL, BEL, NHPC, NPC, CGL, NALCO, Software Companies,

State and Central Government Services etc. can also be a part of their achievement, which reflects huge potential of the course offered.

The Institute is actively engaged in research and development activities in areas like Speech Processing, Image Processing, Different Biomedical Applications, Optical Network, Wireless Optical Network, Radio Over Fibre, Cognitive Radio Networks in a Wireless Domain, Internet of Things (IoT) etc. Its initiatives and work strategy are supported by Govt. of India agencies like Department of Science and Technology, Department of Atomic Energy, AICTE, Ministry of New and Renewable Energy, Defence Research and Development Organisation etc.

8. DEPARTMENT OF MECHANICAL ENGINEERING

A. FACULTY MEMBERS:

Name and Qualification	Field of Specialisation
PROFESSORS:	
<p>1 Dr. B.D.Sahoo (Head of the Dept.) B.Sc.Engg.(S.U), MIE(India)LMISTE Email_ID: bdsahoo@yahoo.com</p>	<p>Production Engg., Metal forming Machining, Diamond Coated Tools</p>
<p>2 Dr. S.K.Senapati B. Sc. Engg.(SU), M.Tech (IIT, Delhi) Ph. D., (MISTE, MIE (India) Email_ID: sukantasenapati63@gmail.com</p>	<p>Applied Mechanics & Bio-Medical</p>
<p>3 Dr. R.K.Swain B.Sc. (Engg.), M.Tech.(IIT, Delhi), Ph.D. (IIT, Delhi), FIE, MSAE, MISTE, LMOBA, ISLE Email_ID:</p>	<p>Energy Studies, Alternative Fuels for I.C. Engines</p>
ASSOCIATE PROFESSOR:	
<p>4 Dr. B.B. Choudhury B.E.(BAMU), M.E.(VSSUT), Ph.D (NIT, RKL) Email_ID: bbcigit@gmail.com</p>	<p>Prod.Engg., CAD/CAM FMS, Robotics</p>
ASSISTANT PROFESSORS:	
<p>5 Dr. N.C.Nayak BE(UU), M.Tech(IIT, Kgp) Ph.D. (IIT, Kgp), MISTE, MIE Email_ID: nc.nayak@yahoo.com</p>	<p>B.E.(VSSUT), M.Tech. (NIT, RKL), Ph.D (Cont. at U.U.) Email_ID: nayak.jayashree@gmail.com</p>
<p>6 Dr. D.K. Behera B.E(NIT, Nagpur), M.E(S.U), Ph.D. (J.U.), MISTE, MIE Email_ID: dkb_igit@rediffmail.com</p>	<p>9 Mrs. Supriya Sahu B.Tech(BPUT), M.Tech(NIT, RKL), Ph.D(Cont.at U.U.) Email_ID: supriyaigit24@gmail.com</p>
<p>7 Mr. P.R.Dhal B. Tech, (C.E.T., OUAT) M.E(SU), Ph.D (Cont. at NIT, RKL) Email_ID: prdhal@gmail.com</p>	<p>10 Mrs. B.Singh B.Tech(KIIT, BBSR) M.Tech.(NIT, Rourkela), Ph.D (Cont. at U.U.) Email_ID: bbsingh4@gmail.com</p>
<p>8 Mrs. Jayashree Nayak</p>	<p>11 Dr. Rabinarayan Sethi B.E.(U.U), M.Tech(BPUT), M.B.A.(Marketing B.U), MISTE(India), MIE, India, Ph.D. (U.U.) Email_ID: rabinsethi@gmail.com</p>

12

Mr. Manoj Kumar Muni
B.Tech(BPUT), M.Tech(NIT, RKL) Ph.D
(Continuing at NIT, RKL) Email_ID:

*Operation Management, CAD.CAM, FMS,
Composites*

*Production Engineering & Indu. Engg &
Management, Powder Metallurgy, AI*

Production Engineering

Thermal Engineering

Production Engineering

Thermal Engineering

Mechanical System Design

Machine Design & Analysis

- 13 **Mr. SudhakarMajhi**
B.Tech(IJM, Berhampur University) M.Tech (NITRKL), Ph.D(Cont.atU.U.)
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Machine Design & Analysis
- 14 **Miss J.Randhari**
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Email_ID: julyrandhari678@gmail.com
Machine Design
- 15 **Mrs.KrushnashreeSushreeSangitaSahoo**
B. Tech(IGIT Sarang), M.Tech (VSSUT Burla)
Email_ID: krishnashree2007@gmail.com
HeatPowerEngineering
- 16 **Mr. AnsumanPadhi**
B. Tech(IGIT Sarang), M.Tech(VSSUT Burla) Ph.D (Cont. at IITBBSR)
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Machine Design Analysis
- 17 **Mr.RiteshKuPatel**
B. Tech(RSR RCET, Bhilai), M.Tech(NITKKR)
Email_ID:ritesh.patel54@gmail.com
Machine Design
- 18 **Mr Gaurab Ku Ghosh** B.Tech(VSSUT,Burla), M.Tech(ISM Dhanbad) Email_ID: gaurab0112@gmail.com
Engineering Tribology
- 19 **Mr. AnandGupta**
B.Tech(MITSGwalior), M.Tech(NITW), Ph.D(KIIT)
Email_ID: mits.anand@gmail.com
Thermal Engineering
- 20 **MrSRPradhan**
B.Tech, M.Tech(IITM) ,Ph.D (Cont. at JNTU)
Email_ID: soumya_plb@yahoo.co.in
Thermal Engineering

ASST.PROFESSORS (CONSOLIDATED)

- 21 **Mrs. SunitaPanda, B.E.,** (KIIT, BBSR)M.Tech(BPUT) Email_ID: Email_ID:
22 **Dr.SuryakantaPanda** Ph.D (NIT, RKL) Email_ID:
23 **Mr.ChinmayaSahoo**
B.Tech(BPUT), M.Tech(NIT,RKL), Ph.D. (NIT,Rkl)
24 **Mr. ShesdevaPani**
B.Tech(IGIT Sarang), M.Tech(IIT, Kgp)
Email_ID:
25 **Miss. MadhumanjariSaran**

B.Tech(BPUT), M.Tech.(IGIT, Sarang), PhD. (Utkal University)

Thermal Engineering

Email_ID:

26

Mrs IpsitaDhar

MME (Metallurgical & material Engg)

B.Tech(BPUT), M.Tech(IGIT, Sarang)

Email_ID:

27

Mr. Amit Kumar Praharaj *B.Tech(IGIT Sarang), M.Tech. (NIT,Rkl)* *Email_ID:*

Machine Design

Machine Design

Production Engg.

Mechanical System Design

Production Engg.

- 28 **Mr. Padma Lochan Nayak**, B.Tech(IGIT Sarang), M.Tech. (NIT, Patna) Email_ID: Thermal Engg
- 29 **Ms. Bandita Sahu** B.Tech(BPUT)M.Tech (IGIT, Sarang) Email_ID: Production Engg.
- 30 **Ms. SnigdhaPradhan**
B.Tech(GCE, Keonjhar), M.Tech(CET, BBSR)
Email_ID: Thermal Engg
- 31 **Mr. Dipesh Kumar Nayak**
B.Tech(IGIT sarang), M.Tech(VSSUT, Burla), Ph.D (Cont. VSSUT Burla)
Email_ID: Mechanical System Design
- 32 **Mr. Sabyasachi Aich** B.Tech(BPUT),
M.Tech(IGIT Sarang) Email_ID:

B. LABORATORY FACILITIES :

The following well equipped laboratories are available. Thermal Engg

- i. Applied Mechanics.
- ii. Automobile Engineering.
- iii. Bio-Medical Engineering & Robotics
- iv. CAD /CAM.
- v. Composite Material.
- vi. Finite Element Application.
- vii. Hydraulic Machines, Fluid Mechanics
- viii. Instrumentation
- ix. Machine Dynamics and Rotor Dynamics
- x. Mechanical Vibration
- xi. Material Testing.
- xii. Production and Metrology
- xiii. Refrigeration and Air Conditioning.
- xiv. Thermal Engineering.
- xv. Tribology.

C. WORKSHOP

<i>Workshop Superintendent</i>	<i>Field of Specialization</i>
Dr. B. D. Sahoo Prof Mech. B.Sc.Engg(Mech.),M.Sc.Engg(S.U.) Ph.D,IIT, Kharagpur,LMISTE,MIE	Metal forming, Machining, Diamond Coated Tools.

Foreman

Er. Purna Chandra Beura

B.Tech., M.Tech (BPUT)

The workshop is under administrative and financial control of Mechanical Engineering Department. It is well equipped with all types of machines, tools and equipments in order to give practical training to both degree and diploma students in different branches of Engineering of the Institute. It consists of the following sections.

- i. Fitting
- ii. Carpentry and pattern making
- iii. Turning and Machine Shop
- iv. Welding and Sheet Metal Section
- v. Foundry
- vi. Blacksmith

Students have to practice and fabricate different jobs during workshop sessional classes. Besides, the workshop provides the opportunities for the following purposes.

1. Fabrication work of the students for Practical Project
2. Maintenance of equipments of other departments of the institute
3. Preparation of test specimens for various laboratories of the institute.

D. Project and Consultancy:

With the financial assistance received from AICTE (Ministry of HRD, Govt. of India), the department has successfully completed the following projects in equipping the laboratories with modern and sophisticated equipments.

<i>Sl.No. Title of the Project</i>	<i>Duration Amount</i>	
	<i>(Years)</i>	<i>(Rs.)</i>
1. Modernization of Mechanical Engg. Lab.	1988-89	15 Lakhs
2. Studies on friction, wear and lubrication (Tribology)	1991-92	12 Lakhs
3. Creation of Composite material and Polymer Science centre	1992-93	10 Lakhs
4. Installation of CAD Centre	1993-94	8 Lakhs
5. Creation of Instrumentation Lab.	1995-96	8 Lakhs
6. Modernization of CAD Centre	1996-97	5 Lakhs

Consultancy and testing services are being extended to nearby industries such as CMPDI, GAMMON INDIA, MCL and NTPC etc.

E. R & D PROJECTS

The following R & D projects have been carried out with the financial aid of AICTE.

Sl. No	Title of the Project	Principal Investigator	Duration Years	Amount Rs./-
(i)	Dynamic behavior analysis of linear/non-linear rotor bearing systems and optimization of rotor-bearing parameters for minimum dynamic response	Dr.B.B.Maharathi	2002-05	4 Lakhs
(ii)	Development of Diamond coated Cutting Tools.	Dr. B. D. Sahoo	2002-05	7 Lakhs
(iii)	Industrial Robot	Dr B.B.Choudhury	2013-14	16.5 lakhs
(iv)	Smart Automated Robotic Wheel Chair	Dr B.B.Choudhury	2017-18	10Lakhs

F. RESEARCH ACTIVITY:

Research work are being carried out in the field of :

- i. Tribology
- ii. Bio Composites
- iii. Metal Cutting
- iv. Diamond Coated Tools
- v. Ceramic Tools
- vi. Alternate fuels
- vii. Optimization of Renewable Energy Systems
- viii. Robotics
- ix. Vibration Analysis and Rotor Dynamics
- x. Machine Dynamics
- xi. System Dynamics
- xii. Non-conventional machining, EDM

The department also offers scope to its faculty members as well as outside industry and institute personnel for undertaking research work for the award of Ph.D. degree in the field of Metal Forming, Robotics and Aerodynamics, Renewable energy systems, Alternative fuels for I.C. Engines (Gaseous fuel, vegetable oil & Biodiesel) etc. in addition to the above areas.

Every year, this department publishes a number of research papers in journals of International and National repute.

G. SCOPE OF MECHANICAL ENGINEERING :

With the present pace of Industrialisation, the scope of Mechanical Engineering is ever expanding with advancement in the areas of Computer Aided Design (CAD), Robotics, Flexible Manufacturing Systems (FMS), Rapid manufacturing, 3D Printing and Laser Technology etc.

Mechanical Engineering graduates have wide employment opportunities in manufacturing industries, power sectors, process plants and R & D organisations and software industries. Interested graduates can peruse higher studies in convenient discipline such as Machine Design and Analysis, Industrial Design, Thermal Engineering, Manufacturing Sciences, Industrial Engineering, Environmental Engineering, Energy studies and Information Technology etc. On successful completion of post graduate courses one can be absorbed in Research and Development organizations or Academic Institutions.

With the location of reputed industrial organisation nearby, as mentioned earlier, Mechanical Engineering students of this Institute get ample scope of acquiring the desired practical bias through regular industrial visits. The students are assigned practical problems in collaboration with nearby industries for their project work in the final year level. It is thus expected that the Mechanical Engineering Graduates passing out from this Institute will have self-confidence and right state of mind to compete for the jobs in State/ Central Govt. concerns. Incidentally, most of the passed out Mechanical Engineering Students have found employment in State/Central Govt. undertakings, Public Sectors, Defence Services and reputed private sectors like Maruti Udyog, TISCO, Mahindra and Mahindra, L&T, OCL, Reliance Industries, TCS, Infosys, PCS, WIPRO etc.

The Department is offering M.Tech programme in the specialization of “Mechanical System Design”, “Production Engg” and “Thermal Engineering”. This department has also been approved as a QIP Centre for Ph.D. programme.

9. DEPARTMENT OF METTALLURGICAL & MATERIALS ENGINEERING

A. FACULTY MEMBERS

	Name and Qualification	Field of Specialization
PROFESSOR:		
1	Dr. S.C.Patnaik (Head of the Department) B.E. (REC, Srinagar), M.Tech(IIT, Kgp), Ph.D. (IIT, Kgp) Email_ID: sc_patnaik@yahoo.com	Physical Metallurgy, Powder Metallurgy
ASSISTANT PROFESSORS:		
2	Dr. P.K.Mallik B.E., (U.U), M.Tech (IIT, Kanpur) Ph.D (IIT, Kanpur) Email_ID: prafulla.mallik@gmail.com	Tribology of ceramics, Bio-Materials, Nanocomposite Industrial Metallurgy Corrosion
3	Mrs. Swarnalata Behera B.E.(U.U), M.Tech(IIT, Roorkee), Ph.D Cont. IIT KGP Email_ID: swarnalata.behera@gmail.com	
4	Mr.Sandeep Kumar Sahoo B.E. (UU), M.Tech (NIT, Rkl) Email_ID: sandeep.talcher@gmail.com	Ferrous Extractive Metallurgy Industrial Metallurgy Materials Processing
5	Mr. J.Majhi BE(UU), M.Tech(IIT, Kgp) Email_ID: jogia7924@gmail.com	Physical Metallurgy, Non-Destructive Testing
6	Mr.A. B. Pattnaik, B. Tech(BPUT), M.Tech(CSIR, N. Delhi) Email_ID: amulyapattnaik@gmail.com	Failure Analysis of Materials Fracture and fatigue of materials
7	Mr.Siddharth Tiwari B.Tech(CSJMU, Kanpur), MS(IIT, Kgp) Email_ID: siddhartha.tiwari@igitsarang.ac.in	Phase Transformation of alloys
8	Mrs. I.Tripathy B.Tech (BPUT), M.Tech (NIT, Rkl)	

ASSISTANT PROFESSORS(Consolidated):

9 **Miss. P.P.Behera**

B.Tech(BPUT)

Email_ID: priyankapriyadarshini48@gmail.com

10 **Mr. UtpalRoy**

MME (Metallurgical & Material Engg)

B.Tech &M.Tech (IIT, Kgp)

Email_ID: roy_utpl@yahoo.com

11 **Mr.JayantaKumarSahoo**

B.Tech &M.Tech (BPUT)

Email_ID: jayantasahoo91@gmail.com

12 **Mr. S.S.Padhi**

B.Tech. (IGIT, Sarang)

Email_ID: saisubhankar012@gmail.com

13 **Mr. HimansuSahoo**

B.Tech(IGIT Sarang), M.Tech. (Jadavpur University)

Industrial Metallurgy

Email_ID:

14 Mr. Jyoti Ranjan Pany

Industrial Metallurgy

*B.Tech(GEC, Keonjhar), M.Tech. (Jadavpur University)**Email_ID: jyoti.metallurgy020@gmail.com***15 Sambit Kumar Sahoo***B.Tech(IGIT Sarang)**Email_ID: sambit497@gmail.com***16 Ms. Priyadarshini Nayak***B.Tech(BPUT)**Email_ID: priyadarshini2906@gmail.com***17 Ms. Shaswoti Mohanty***B.Tech(BPUT)**Email_ID: shaswotimohanty@gmail.com***ASST PROFESSOR (TEQIP-III):****18 Mr. Asutya Kumar Biswal**

Material Science Engg.

*B.Tech(BPUT), M.Tech(IITBhubaneswar)**Email_ID: asutya.igit@gmail.com***B. LABORATORY FACILITIES:**

The department has set up the following laboratories with modern and sophisticated equipments with financial assistance received from World Bank.

- i. Physical Metallurgy Laboratory
- ii. Heat Treatment Laboratory
- iii. Mineral Dressing Laboratory
- iv. Foundry Engineering Laboratory
- v. Materials Testing Laboratory
- vi. Materials Characterisation Laboratory
- vii. Fuel Testing Laboratory
- viii. Computer Laboratory
- ix. Process Metallurgy Laboratory
- x. Biomaterials Processing and Characterisation laboratory

The major facilities available in the department are: (i) Microhardness Tester, (ii) Computerized UTM, (iii) Pin-on-Disc wear Testing machine, (iv) Carl-Zeiss Advanced Metallurgical Microscope with Image Analysis, (v) High Temperature Tube Furnace, 1400°C, (vi) High Temperature Melting Furnace, 1450°C, (vii) High energy Planetary Micro Mill.

C. PROJECT AND CONSULTANCY:

The department has set up an Advanced Materials Processing and Characterisation Laboratory with grants from AICTE under the MODROB Scheme in 2002-03 and has also set up a Biomaterials Processing and Characterisation Laboratory with received grants from SERB, DST Govt. of India from 2017-2020.

The Metallurgical and Materials Engineering Department has been carrying out consultancy work in Analysis and Testing of Materials, Fuel Testing, Coal and Ore Analysis of nearby industries.

D. R & D PROJECTS

The following R&D projects have been carried out with the financial aid from different agencies:

Title of the Project	Agency	Principal Investigator	Duration	Years	Amount
Processing and characterisation of Al_2O_3 -Ca Nanocomposite for Femoral Head Replacement.	SERB	Dr.P.K.Mallik	3yr	2017-2020	47.8 lakhs

E. RESEARCH ACTIVITIES:

In the Department of Metallurgical and Materials Engineering, research work is being carried out in the areas of Al-Si based Metal Matrix Composites, Microstructure – Property Correlation in Hyper-eutectic Al-Si alloys, kinetics of metallurgical processes, processing of advanced materials, development of ceramic cutting tools and structure and deformation studies of aluminium based alloys and composite materials, processing of nanomaterials and nanocomposite, Tribology of materials, processing and characterisation of biomaterials.

F. SCOPE:

Metallurgy concerns with processing of metallic ores and extraction of different metals. The metals are then combined with other metals to produce alloys and with other materials to produce composites. The materials are then processed and fabricated by suitable processing techniques to give them the desired shape and characteristics. It also deals with the understanding of the structure and behaviour of Materials. In the last few decades, this understanding of materials and their processing has led to the development of new materials that has found wide applications in the areas of aerospace, nuclear technology, super conductivity, high temperature technology, biomaterials, electronic materials, lightweight materials in transportation sector, nanotechnology etc. Materials technology has itself emerged as a special discipline.

The industries nearby such as NALCO, NABHACHROME, BHUSAN STEELS, JSPL, NINL, JINDAL STAINLESS, TATA STEEL, provide ample scope for tempering the textual knowledge of the students with practical insights. A student graduating in Metallurgical and Materials Engineering can enter into metallurgical process plants, manufacturing industries, research establishments, nuclear and space research organizations.

10. DEPARTMENT OF COMPUTER SCIENCE ENGINEERING AND APPLICATION

A. FACULTY MEMBERS:

Name and Qualification	Field(s) of Specialization
PROFESSOR:	
1 Dr. Sarojananda Mishra (Head of the Department) MCA(S.U.), M. Tech (IIT.Delhi) Ph.D.(UU) LMISTE, AMAIMA Email_ID: sarose.mishra@gmail.com	8 Dr. Sri Niroj Kumar Pani MCA, M.Tech, Ph.D.(UU) Email_ID: nirojpani@gmail.com
ASSOCIATE PROFESSORS:	
2 Dr (Mrs). Sasmita Mishra MCA (SU), M.E.(SU), Ph.D. LMISTE Email_ID: sasmita.mishra.csea@gmail.com	9 Dr Biswanath Sethi B. Tech., M.Tech, Ph.D (IEST, Shibpur) Email_ID: sethi.biswanath@gmail.com
ASSISTANT PROFESSORS (CONSOLIDATED): (Under Self Financing Scheme):	
3 Dr. Srinivas Sethi MCA (B.U.), Ph.D(BU) Email_ID: srinivas_sethi@igitsarang.ac.in	10 Dr. (Mrs) Sangita Pal B. Tech, M.Tech, Ph.D (UU) Email_ID: sangitapalmtech.cet@gmail.com
ASSISTANT PROFESSORS:	
4 Sri M.Srinivas MCA (SU), M.E.(SU) LMISTE Email_ID: srinivas.medimi@gmail.com	11 Mr. Sangram Ku. Nayak MCA, M.Tech, Ph.D (Cont. UU) Email_ID: sangram012@gmail.com
5 Sri Priyabrata Sahu MCA, M.Tech. (Ph.D Cont.) Email_ID: priyabsahu@gmail.com	12 Mr. Susanta Ku. Sahoo MCA, M.Tech , Ph.D (Cont. UU) Email_ID: susanta.sahoo@igitsarang.ac.in
6 Dr. Sanjay Ku. Patra MCA, M. Tech, Ph.D, (UU) Email_ID: sanjay.patra@gmail.com	
7 Dr. Dillip Ku. Swain MCA, M.Tech, Ph.D Cont. (UU) Email_ID: dillip_swain41@yahoo.com	

Fractals and Graphics, System Dynamics, Operation Research, Networking, Computer Programming, Compiler Design, Theory of Computation Simulation modeling

DBMS, Microprocessor, OS, Computer Security, Java Programming, Embedded system, OOPS, Computer Organisation.

Data Structure, Programming, Language, RDBMS, Operating System as, Graphics AI, Database, Algorithm analysis

Mobile Computing, Ad-hoc Network, Sensor network, Cognitive Radio Network, Cloud computing, Big Data, Crowd Sensing

Artificial Intelligence, NLP, OOPS, Software Engineering, JAVA

RDBMS, Operating system, Graphics, Networking, Computer Architecture

RDBMS, DAA, JAVA, PDS, Python

Computational theory, Artificial Intelligence, ComputerNetwork,DataStructure,Operating System,ComputerOrganizationandArchitecture ProgramminginC,DataStructureusingC,Network

Security, Computer Networks, Operating System, Software Engineering, DBMS, C++,

Wireless Sensor Network

ComputerGraphics,DataStructureusing“C” Programing,Formallanguage&Automatatheory, Compiler Design

Computer Security, Data Structure

JAVA, Programming, Data Structure

- 13 **Mr.Suwendu Ku.Jena** *Mobile Computing, System Programming, DBMS*
 B. Tech, M.Tech, Ph.D (Cont. UU)
 Email_ID: suwendukumarjena@gmail.com
- 14 **Mr.SubhenduBhusanRout** *Computer Graphics, OOPS, Comp.Arch.CD*
 B. Tech, M.Tech Ph D (Cont. UU)
 Email_ID: subhendubhusan@igitsarang.ac.in *C, C++.DS, Database Engg.*
- 15 **Mrs. AnupamaSahu**
 B. Tech, M.Tech Ph.D (Cont. UU)
 Email_ID: anupamasahu.21@gmail.com
- 16 **Mr. Ramesh Kumar Sahoo** *B.Tech, M.Tech, Ph.D (Cont. UU)* Email_ID: ramesh0986@gmail.com
- 17 **Mr.BinayaKumarPatra** *Computer Graphics, WSN, Software Engineering*
 MCA, M.Tech, Ph.D (Cont..UU)
 Email_ID: binaya.patra@gmail.com
- 18 **MrsSupriyaLenka** *C, OOPS, Operating System, PPM, Data Structure using C, E-Commerce*
 B.Tech,M.Tech,(Ph.DCont.UU)
 Email_ID: followsupriya@gmail.com *C,C++,Java,DataStructure,DBMS,DataMining,IWT*
- 19 **Mr BapujiRao**
 MSc (IT), M.Tech, Ph.D (Cont.. BPUT)
 Email_ID: rao.bapuji@gmail.com

B. COMPUTING FACILITIES:

i. COMPUTATIONAL LABORATORY:

Computational laboratory is equipped with IBM-Netfinity 5000 (under UNIX) with 30 users support. A number of Pentium PCs are connected to the server as nodes.

ii. NETWORKING LABORATORY:

The networking lab runs with the support of a pentium server (under Windows NT) from Siemens Nixdorf. The clients are Pentium-PCs (under Windows-98) connected to TCP/IP using Ethernet.

With Netsim 2.0. NetSim 5.0 (R&D) version

iii. MICRO PROCESSOR LABORATORY:

This laboratory is well equipped with 8085 and 8086 microprocessor kits and other interfacing cards like 8255 etc.

iv. PERIPHERALS:

HP Scanjet 5100 scanner, External CD writer (HP), Modem 33.6 KBPS, HP 695c, HP Desjet-500 printer, HP Laserjet 6L Laserprinter, Panasonic KXP2624 DMP, FUJITSU DL2000 Printer, NEC Printer, Wipro LQ-1050 Printer.

v. SOFTWARE FACILITY AVAILABLE

- * *C, Visual C++ (both under UNIX, DOS/WINDOWS environmental)*
- * *Personal Oracle 8.0 with developer 2000, Visual Basic, VC++ with developer studio Visual dBase, dBase-V, Visual FOXPRO, C, C++, PC under DOS, WINDOWS.*
- * *Oracle 8.10 with developer 2000*
- * *Multimedia Computer Based Trainer kits Visual Basic, VC++, dBase-IV, Windows-95/98 and MS-DOS.*
- * *Netsim, Matlab, Software Engg. Software (IBM Rational Rose)*

C. RECENT PROJECTS UNDERTAKEN

1. AICTE-MODROB Project for Modernisation of Computer Centre (1998)
2. AICTE MODROB Project - 2004.
3. AICTE MODROB Project- 2012
4. Science & Engineering Research Board (DST), New Delhi for Design & development of Efficient Routing Protocol in wireless sensor Ad-hoc network

D. RESEARCH ACTIVITY

The research interests of the faculty members include Fractal Database, Fractals and Computer Graphics, Evolutionary Neural Networks and Forecasting, Artificial Intelligence and information Retrieval, Fuzzy Optimization, MIS Data modelling and database design. Some of the faculty members have completed their Ph. D. work in this department. Mobile Computing, Ad-hoc Network

E. PROJECT TRAINING AND PLACEMENT:

As part of the requirement of their course, System development Projects of six months duration by MCA students are carried out in external organisation. Our alumni have been recruited by a large cross-section of computer industries both in Private and Govt. Sectors. Many companies like Infosys, L&T Information Technology Limited, BFL software and TCS have recruited our students through campus selection. Away present B.Tech & MCA final year students about 95% have been placed in various org. like Wipro, TCS, ESS, Tech Mahindra, BITARSE Global, Infraway Pvt. Ltd.

11. DEPARTMENT OF PRODUCTION ENGINEERING

A. Faculty Members :

Name and Qualification

Field(s) of Specialization

ASSOCIATE PROFESSOR:

1. **Dr. B.B.Choudhury**

Head of the Department

BE(MUAurangabad), ME(UCEBurla), Ph.D(NITRKL)

Email_ID: bbcigit@gmail.com

9. **Ms. SupriyaPriyadarsini**

B.Tech (IGIT Sarang),
M.Tech(VSSUT Burla)

Email_ID:

spr.priyadarshini@gmail.com

ASSISTANT PROFESSORS (TEQIP-III):

2. **Mr. Ashok Kumar Pradhan**

B. Tech (VSSUT Burla), M.Tech. (NIT Agartala)

Email_ID: ashoknita001@gmail.com

10. **Mr. Chandan Kumar**

B.Tech (BIT Sindri), M.Tech(IIT Dhanbad)

Email_ID: ckumar728@gmail.com

3. **Mr. Deepak Suna**

B.Tech (VSSUT Burla), M.Tech. (IIT Dhanbad)

Email_ID: deepaksuna4@gmail.com

11. **Ms. Niwedita**

B.Sc (BIT Sindri), M.Tech(NIFFT, Ranchi)

Email_ID: niwedita@gmail.com

4. **Mr. Himansu Sekhar Dash**

B.Tech (VSSUT Burla), M.Tech. (IIT Roorkee) Email_ID:
dashhimansu0237@gmail.com ASSISTANT PROFESSOR
(CONSOLIDATED):

B. LABORATORY FACILITIES

The following laboratories are available in the department:

- * CAD Laboratory
- * Metrology & Inspection Laboratory
- * Machine Laboratory
- * Robotics Laboratory

5. **Mrs. Debasmini Prusty**

B.Tech (VSSUT Burla), M.Tech (NIT, RKL)

Email_ID: debasmini.prusty@gmail.co.in

6. **Mrs. Swarna Laxmi Sahoo**

B.Tech (GCE Keonjhar), M.Tech (VSSUT, Burla)

Email_ID: sahooswarnalaxmi@gmail.com

7. **Mr. Satya Ranjan Pal**

B.Tech (BPUT), M.Tech(VSSUT, Burla)

Email_ID: satyaigit17@gmail.com

8. **Ms. Supriya Soumyaranjan**

B.Tech (BPUT), M.Tech (IGIT, Sarang)

Email_ID: supriyasoumyaranjan@gmail.com

Robotics, Manufacturing Science, Optimization Technique

Computer Integrated Manufacturing

Manufacturing Engineering

CAD/CAM, Robotics

Steel Technology

Manufacturing System Engineering

Production Engineering

Production Engineering

Production Engineering

Industrial Engineering and Management

Manufacturing Engineering

C. SCOPE OF PRODUCTION ENGINEERING

Production Engineering is a branch of engineering which deals with the study of developing, improving, implementing and evaluating the integrated system of people, money, knowledge, information, equipment, energy, material and the industrial process as a whole.

This branch has emerged as an independent discipline catering to the global need. The objective of the discipline is to enable engineers to improve efficiency and effectiveness of manufacturing and services sector industries. The curriculum is a perfect blend of mechanical, industrial and production subjects. The course makes graduate compatible with the existing and emerging needs of the industry.

Production engineers use principles of engineering, mass production and technology to help companies find ways to offer services or create a product efficiently. They also work to improve the product through better management and quality control.

Students having B.Tech degree in Production Engineering would understand existing technological trends and help to add new technology to the existing system. Most leading manufacturing industries look out for engineers who specialises in Production Engineering, so as to reduce cost, increase efficiency and make their products marketable in the competitive era. One can also pursue higher studies like M.Tech and Ph.D in Production Engineering after successful completion of B.Tech.

A. FACULTY MEMBERS

Name and Qualification

Research interest

ASSOCIATE PROFESSORS

- 1 **Dr. Md. N. Khan**
(Head of the Department)
M.Sc., Ph.D. (SU), LMOPS, LMIAPT
Email_ID: mdnkhan1964@gmail.com
- Small Angle X-Ray Scattering

ASSISTANT PROFESSORS

- 2 **Dr. S. K. Tripathy,**
M.Sc., M.Phil, Ph.D. (SU), LMISTE, PMOPS MIAGRG,
LMIPA
Email_ID: sktripathy@igtisarang.ac.in
- Nuclear Physics, Cosmology, Optical materials

ASST. PROFESSORS (CONSOLIDATED)

- 3 **Dr. A. Pattanaik**
M. Sc., M. Phil., Ph.D. (SU)
Email_ID: anup.pattanaik@igitsarang.ac.in
- Solid State Physics, Superconductivity, Optical Material
- 4 **Mrs. D. Behera,**
MSc, M.Phil, Ph.D (continuing)
Email_ID: dipadolly@rediffmail.com
- Nuclear Symmetry Energy, Neutron Star, Nuclear Equation of State, Cosmology
Nuclear Physics
- 5 **Mr. N. Baral**
M. Sc., M. Phil (SU)
Email_ID: nrusinghbaral922@gmail.com
- Condensed Matter Physics, Solar Cell
- 6 **Dr. Anukul Prasad Parhi** M.Sc. PhD (IIT, Kanpur) (TEQIP-III) Email_ID: aparhi@gmail.com
- 7 **Mr. Gupteswar Samal**
M.Sc. (UU) NET
Email_ID: gsamal20@gmail.com
- High Energy Physics

B. LABORATORY FACILITIES

The department has two laboratories catering the needs of the Diploma Engineering and B. Tech students. The major instruments in the laboratory include Hall Effect experiment set up, Optical Bench, Goniometer and viscosity measuring instruments.

C. PROJECT TRAINING AND PLACEMENT

First year M.Sc. students undertake their project training and summer internship at different institutes of national and international repute such as Institute of Physics Bhubaneswar, UGC-DAE Consortium, Indore, IGCAR, Kalpakkam, Punjab University, Chandigarh, NIT, Rourkela and etc.

The students passed from the department are placed in different research institutes as research scholar. Some of the passed out students work as faculty members in some distinguished educational institutes.

D. RESEARCH ACTIVITY

The department, at present, have 07 (Seven) no. of faculty members with long years of teaching experience. The department has achieved an international research reputation, with a substantial research contacts across the globe. The prime focused area of research in the department include: Small Angle X-ray Scattering studies of organic fibers, Cosmological models with dark energy candidates, Modified Theories of Gravitation, Optical materials, Nuclear Symmetry Energy and Nuclear Equation of state, Neutron Star, Thermodynamic properties of Superconductors and Aerosol Science. The research experience of the faculties amply supplements and feed into the teaching experience. The department has published 25 research papers in peer reviewed journals of national and international repute and two books in last five years. Every year, this department organizes National seminars and workshops in which many eminent persons from different institutes of repute come and interact with the students and faculty members.

E. SCOPE

The post graduates of the department will have a bright scope to indulge in research activity in different institutes of national and international repute. The students will also be able to compete and succeed in different national level tests like NET, GATE, JEST etc. The students will have a scope to find jobs in different R&D institutes like BARC, IGCAR and various industries. The students will also have an

(i) ability to identify, formulate and to solve problems of Engineering and Physical sciences, (ii) ability to develop and apply analytical as well as experimental methods of investigation to real physical problems beneficial to society at large, (iii) to communicate effectively and efficiently in a professional environment through Scientific and technical reports and presentations, (iv) ability to justify technically, with proper scientific explanations, the physical problems and phenomena to diverse audiences, (v) an ability to work in teams of multidisciplinary nature with enough professional skill and ethical responsibility, (vi) an ability to formulate a system, component or process to achieve the goal within economic, environmental, social, political, ethical, health and safety constraints.

A. Faculty Members

	<i>Name and Qualification</i>	<i>Field(s) of Specialization</i>
Assistant Professors:		
1	Dr B.B.Panda (Head of the Department) M.Sc., M.Phil, Ph.D(S.U) Email_ID:bbpanda@igitsarang.ac.in	Photo electrochemistry
ASSISTANT PROFESSORS (CONSOLIDATED):		
2	Mrs. AllianMajhi M.Sc., M.Phil(Utkal) PhD. (Utkal University, continuing...) Email_ID:allianmajhi@gmail.com	Inorganic chemistry
3	Mr. AjitPanda M. Sc. (Berhampur University) Email_ID:ajitpanda1976@gmail.com	Inorganic Chemistry
4	Mr. Rajib Lochan Sahoo M. Sc. Applied Chemistry (SU) Email_ID:rajibsahoo4@gmail.com	Applied Chemistry
5	Dr. Debakanta Tripathy, M.Sc. (UU), Ph.D. (IIT Madras) PostDoc (Chinese Academy of Sciences, China) Email_ID:dtripathy579@gmail.com	Metal driven Self-assembly
6	Dr. Niladri Maity M.Sc. (BHU), Ph.D. (IIT Bombay) PostDoc. (UC Berkeley, USA; IMS, Japan; KAUST, KSA) Email_ID:niladriitb@gmail.com	Surface organometallic chemistry
7	Dr. Satyajit Das M.Sc. (Sambalpur University), Ph.D and PostDoc. (Genoble University, France) Email_ID:das.satya2005@gmail.com	Bio-material and Bio-energy

B. SCOPE OF CHEMISTRY DEPARTMENT

Chemistry is one of the oldest branches of basic science. The Department of Chemistry at IGIT Sarang offers a two years M. Sc. program with student intake of 18 per year since 2015. Apart from this the Department also serves as an allied branch to all other Departments in Diploma and B.Tech since its inception. The Department is well equipped with highly qualified faculties and well trained staff to guide the students.

C. RESEARCH ACTIVITIES

The Department of Chemistry is also involved in various research activities in collaboration with various premier institutes including NITs and IITs. In summer 2018, as many as 7 master students have under taken their summer internship in different NITs and IITs. The Department has its own research lab equipped with instrumental facilities including UV-VIS spectrophotometer, pHmeter, conductivitymeter and flame photometer, incubator, high volume air sampler and etc. for carrying out fundamental research. The research output has been published in many international and national journals of high impact. The Department has organized many national conferences and seminars.

A. FACULTY MEMBERS

Name and Qualification	Research interest
ASSOCIATE PROFESSORS:	
1 Dr. Pitambar Das (Head of the Department) M.Sc., Ph.D. Email_ID: pdasigit@gmail.com	Differential Equation
ASSISTANT PROFESSORS:	
2 Mrs. N. Mishra M. Sc., M. Phil. Email_ID: namitaigit63@gmail.com	Fluid Mechanics
ASST. PROFESSORS (Consolidated):	
3 Mr. Chandra Sekhar Otta M.Sc (Ravenshaw University), M.Phil (Khallikote Autonomus College), Ph.D Cont. (Berhampur University) Email_ID: chandrasedkharotta@gmail.com	Email_ID: monalisa.pani94@gmail.com
4 Mr. Kailash Chandra Paul M.Sc (Sambalpur Uni.), M.Phil (The Global Open University), M.Tech (UU), Ph.D Cont. (IGTM Uni.) Email_ID: k09paul@gmail.com	10 Ms. Archana Pattanayak M.Sc (IGIT Sarang) Email_ID: archan.14121995@gmail.com
5 Mr. Sunil Kumar Sahu M.Sc (SU), M.Phil (SU), Ph.D Cont. (UU) Email_ID: jaga1282@gmail.com	11 Dr Premkumar M.Sc (Bharathidarsan Uni) M. Phi, PhD (Podicherry University) Email_ID: akpremath@gmail.com
6 Dr. Bharat Keshari Swain M.Sc, M.Phil, PhD (Ravenshaw Uni.) Email_ID: bharatkeshari1@gmail.com	12 Mr. G. Jagadeesh M.Sc, M.Phil (Anna Uni.) Email_ID: jagan_gangadharan@yahoo.co.in
7 Mr. Ajay Kumar Sahoo M.Sc (Ravenshaw Uni), M.Phil (Centurian Uni.) Email_ID: ajaysahoo20@gmail.com	
8 Mr Bikasha Parida M.Sc (Ravenshaw Uni), M.Phil (SU), Ph.D Cont (UU) Email_ID: bcparida87@gmail.com	
9 Ms. Monalisa Pany M.Sc (North Orissa University)	

Fluid Dynamics, Cosmology

Operation research, Computational Fluid Dynamics

*Numerical Analysis, Relativity & Cosmology, Partial
Differentiation, Operation Research*

Fluid Dynamics, Computational Fluid Dynamics

Numerical Analysis, Partial Differential Equation

Fluid Dynamics, Partial Differential Equation

Numerical Analysis

Cosmology

Commutative Algebra

Graph Theory

A. FACULTY MEMBERS

Name and Qualification

English

PROFESSORS

- 1 **Dr. Sarojananda Mishra**
 (Head of the Department)
 Professor, Dept. of Computer Science Engineering and Application
 Email_ID:pdasigit@gmail.com

ASSISTANT PROFESSORS (Consolidated)

- 2 **Dr Debi Prasad Pany**
 M.A., M. Phil, PGDTE, PhD (SU)
 Email_ID:debipanyigit@gmail.com

- 3 **Mr. Debasish Nayak**
 M.A., M.Phil
 Email_ID:dnayakbeda@gmail.com

- 4 **Ms. Samarpita Dash**
 M.A., M.Phil
 Email_ID:samarpita.dash11@gmail.com

- 5 **Dr. Sharda Acharya**
 M.A, M.Phil, PhD(NIT Rourkela)
 Email_ID:sharda.acharya@gmail.com

ECONOMICS

- 1 **Mr. Sankar Moharana**
 M.Com.(UU), M.Phil(BU), PGDCFM(IPSAR, Cuttack), (ICWAI, Kolkata)
 Email_ID:moharanasankar@gmail.com

- 2 **Mrs. Mudhuswapna Pattanik**
 M.A(RU), M.Phil(BU)
 Email_ID:madhuswapana.pattanik@gmail.com

MBA

1 **Mr. SagarDash**

PGDM (AWDI, RKL), HR Marketing, PhD(.)

Email_ID:sagardash.dash@gmail.com

2 **Miss KumudiniBehera**

Inte.MBAHR(AngulAutonomus College)

Email_ID:kumudiniodisha25@gmail.com

16. DEPARTMENT OF ARCHITECTURE AND PLANNING**A. FACULTY MEMBERS****Name and Qualification**

1 **Dr. Chittaranjan Sahoo**

(Head of the Department)

Associate Professor, Civil Engineering

ASST. PROFESSOR (CONSOLIDATED):

2 **Ar. Dillip Kumar Baral**, B.Arch(CET),
MTech(SU)
Email_ID: dillip.architect@gmail.com

3 **Ar. Shilpi Chakraborty**,
B. Arch (PMCA, CTC), M.Arch, CET
Email_ID: chakrabortyshilpi06@gmail.com

4 **Ar. Ankita Panda**,
B.Arch (PMCA, CTC), PGPIDMB (Nicmar, Pune)
Email_ID: panda.ankitapanda@gmail.com

5 **Ar. Jyotshna Munday**
B.Arch(NIT), M.Arch, CET

6 **Ar. Amarjeet Mohanty**
B.Arch(PMCA, CTC), M.Arch,

7 **Mr. Tapas Ranjan Baral** B.Tech(OEC),
M.Tech(IGIT)
Email_ID: tapas1040baral@gmail.com

8 **Miss Sushismita Tripathy**
B.Tech(BPUT), M.Tech(VSSUT)

17. DEPARTMENT OF TRAINING & PLACEMENT

**Dr.B.B.Choudhury (In
Charge of Training & Placement)**
B.E.(BAMU),M.E(VSSUT), Ph.D (NIT, RKL)

M.Sc(NIT, Rkl), Ph.D(S.U.)

Every year, the department arranges

- i. *Local Industrial Tours.*
- ii. *Industrial Tours outside Odisha.*
- iii. *Vocational training of B.Tech. Students.*
- iv. *Apprentice Training.*
- v. *Workshops, seminars, special training of faculties through Industry Institute Interaction Programmes, Extramural Lectures by professionals from industries and reputed institutions of the country and abroad.*

Apart from above, reputed firms like Infosys, TCS, PATNI Computers, Haldia Petrochemicals Ltd., Larsen and Turbo Ltd. etc., visit the Institute every year and recruit students of this Institute through campus selection.

18. LIBRARY

A. Library Committee Members

<i>Name</i>	<i>Department</i>
<i>Prof.M.Srinivas</i>	<i>(In-charge) CSc.Dept.</i>
<i>Dr.P.K.Mallick</i>	<i>(Mett. Dept.)</i>
<i>Prof.U.Mahanta</i>	<i>(Electrical Dept.)</i>
<i>Prof.UpasanaNayak</i>	<i>(ETC, Dept.)</i>
<i>Prof.N.K.Pani</i>	<i>(C.Sc. Dept.)</i>
<i>Prof.BhagirathiTripathy</i>	<i>(Civil Dept.)</i>
<i>Prof.DillipKu.Baral</i>	<i>(Arch. Dept.)</i>
<i>Prof.RabiranjanaMurmu</i>	<i>(Chemical Dept.)</i>
<i>Prof.DeepakSuna</i>	<i>(Prod. Dept.)</i>
<i>Prof.JayashreeNayak</i>	<i>(Mech. Dept.)</i>
<i>Dr.B.B.Panda</i>	<i>(Chemistry)</i>
<i>Dr.S.B.Padhy</i>	<i>(Convenor/Secretary)</i>
	<i>(Librarian in-charge, PhD.)</i>

B. LIBRARY FOR B. TECH , B.ARCH , M.TECH ,MCA &MSC:

The Institutelibraryhasavaluablecollectionofabout38,000textandreferencebooks,Handbooks

I.S.codes.About09nos.Ofe-journals(foreign)80nos.ofe-journals(Indian)&60nos.Indianjournalsare being subscribed to Institute Library.

The libraryremainsopenfrom9.00A.M.to9.00P.M.withoutlunchbreakonallworkingdaysexcept on Saturday.Saturday timingisfrom9AMto1.00PM.OnSundayandotherPublicholidaysitisclosed.

Allthelibrarytransactionsworkarebeingdonethroughcomputerasthelibraryisafullyautomated library. Bonafide users of the institute library are:

- i. All facultyand employees of the institute*
- ii. All bonafide students of the institute*

C. LIBRARY RULES:

- 1. All bonafide students must bring their Library Cards for entering into Library. They must use the Library Cards for issuing Books.*

2. *All bonafide students of the institute shall be allowed to borrow up to a minimum of two books. However, all pre-final year B.Tech and second year MCA/M.Sc. students can borrow three books and a final year B.Tech., M.C.A. students are allowed to borrow one additional book (i.e. four books at any time).*
3. *All student borrowers may be permitted to retain books by them for a maximum period of 30 days without fine (the days calculated are inclusive of the date of issue.) A book issued to a student borrower may be reissued on request for two consecutive periods of 30 days each provided there is no earlier demand for the same book. At the time of renewal the book to be re-issued shall be presented physically at the library counter by the borrower personally.*

4. *If a student borrower fails to return the books issued in his name on or before the due date, an overdue charge of 1.00 rupees per day per book shall be charged up to 10 days of default. The calculation of days will include the date of return. The rate of overdue charge will be increased by 2.00 rupees per day per book for the defaulters starting from the 11th day onwards after the due date, till the date of actual return.*
5. *If a student borrower fails to return any book issued in his name within 45 days from the due date, necessary steps shall be taken to recover the borrowed books or the current price of the book/books in addition to special fines as per rules. The special fines shall be charged @ 10% of the cost of the book in the maximum and may extend to 100% of the present cost of the book depending on the importance of the book which is to be decided by the library committee.*
6. *Whenever the institute decides a physical stock verification of the library, the Librarian may recall all borrowers to return the books for a specified period. The manner of such recall may be decided by the institute as may be deemed proper irrespective of the preceding rules.*
7. *The account of overdue charges and similar other collections made from library users shall be maintained separately by the institute. The fund thus collected shall be utilised for the development of the library.*
8. *If a student leaves the institute without obtaining clearance from the library necessary steps shall be taken by the institute to realise the dues.*
9. *Books and documents which are considered rare shall not on any account be taken outside of the library premises.*
10. *Hand books, rare reference materials, encyclopedia, ISI specification, codes and selected texts and reference books kept in the reserve sections shall not be issued to borrowers but can be referred inside the library only.*
11. *Journals and magazines are to be used strictly inside the library and those including old volumes shall not be issued to any borrower under normal circumstances.*
12. *Private books and personal belonging should be kept in the property counter before entering into the library.*

D. SPECIAL INSTRUCTIONS :

1. *A borrower who causes any damages to a book/journal may be called upon to pay such penalty as the committee decides. i.e. Five times the cost of book.*
2. *If anybody causes damage to the furniture or attempts to remove from the library a book/journal that has not been duly issued to him by the authorised library staff, appropriate actions shall be taken against him as per library rule, i.e. five times the cost of the book.*
3. *Conversation and smoking are strictly prohibited inside the library.*
4. *Borrowers are advised to inspect books issued to them at the time of issue and to call attention to any damage or defacement detected by them. Any damage or mutilation of a book noticed at the time of returning shall be ascribed to the borrower.*
5. *Loss of book/journals shall be reported by the Librarian to the Library Committee.*

E. LIBRARY FOR DIPLOMA STUDENTS:

1. *The institute has a separate library for Diploma students under the direct supervision of the librarian. It has 10,000 text, reference. ISI code and hand books. Bonafide users of all library are:
All teaching staff and other employees of the Institute.
All Diploma students of the Institute.*
2. *The usual working hours of the library is from 7.00 A.M. to 9.00 P.M. on all working days except on Saturday and other public holidays. The above working hours may be changed with proper notification.*
3. *It is a closed access library. Students have to get the books issued/return books at the issue counter. However there is a reading provision for student inside the library. The issue & return of books will be made on fortnight basis. The days of the week for transaction of books for different years will be notified from time to time.*
4. *A student can borrow 3 books at a time from the library and shall be permitted to keep it for a maximum period of one month. He has to get the book reissued within one month from the date of issue. If a student borrower fails to get re-issued/return the book issued in his name on or before the due date, an overdue charge of 1.00 rupees per day per book shall be charged upto 15 days of default. The calculation of days includes the date of return. The rate of overdue charge will be increased to

2.00 rupees per day per book for the defaults starting from 16th day onwards after the due date.*
5. *If a student borrower fails to return any book issued in his name within 45 days from the due date, necessary step shall be taken to recover the borrowed books or the current price of book/books in addition to special fines as per rules. The special fines shall be charged @ 10% of the cost of the book in the minimum and may extend to 100% of the present cost of the book depending on the importance of the book to be decided by the professor in charge of the library.*

19. BOOK BANK

Prof. S.K.Senapati Prof. (in-charge) **Mr. R.C.Mohanty**

Junior Asst.

1. The difficulties of the students to buy costly text books are solved partially by the Book Bank of the institute. Purchase of books of such purposes is restricted to prescribed text books only. Initially, some financial assistance was provided by the District Welfare Officer for purchase of books for the Book Bank. Presently it is self managed by the revenue earned from the students. Depending on the requirement of the students new books are purchased before the start of an academic session.
2. The books are suitably distributed among the students keeping in view the norm that one set of books is meant for 7 students, for entire course. The allotment of books is decided by lottery and the students are to bear 1/8th of the cost of the books. The books should be returned to the Book Bank at the end of each Semester.
3. The students who discontinue study in the middle of the session should ensure that the books in their name are returned back to the Book Bank.
4. It is the responsibility of the students to maintain the books supplied to them from Book Bank in good condition. Any case of loss or damage to the book shall lead to penalty. In case of serious damages also the student has to bear the full cost of replacement of the books.

20. CULTURAL ASSOCIATION

The Cultural Association plays a pivotal role in exploring the multi dimensional talents of the students resulting in shaping their personality. The Association is run by nominated/elected student secretaries and representatives under the supervision of faculty members. The Cultural Association remains busy throughout the year in several activities such as Freshers' welcome, invited talks by luminaries, annual dramatic and literary competitions and programmes. The Association publishes the Institute's annual magazine "Technoquest" and the Souvenir of Final year students "Memoirs" along with a quarterly news letter "IGIT-HERALD"

21. NCC, IGIT, SARANG UNITY AND DISCIPLINE

The IGIT NCC was established in the year 2003 under self finance scheme and subsequently it has been regularized under open vacancy scheme by 12 (O) BN. Dhenkanal, a unit of Cuttack Group. The company carries out various activities such as Tree plantation, Blood donation, Social awareness programs etc. apart from participating in institute Republic Day and Independence Day parade. Also the SD/SW cadets are encouraged to attend various National level camps and adventurous activities such as NIC, SMIC, Parasailing, mountaineering, tracking etc. to help bridge the cultural gap among various States of India, inculcating and strengthening leadership traits amongst the cadets.

Ass.NCC Officer:	Lt. M.P. Behera Asst.Prof.Elect. Engg.
Eligibility :	1 st year B. Tech between age group of 15 to 26 years.
No. of Cadets :	50

A. Camp Record :

Sl. No.	Name of Camp	Address	No.ofCadets	Achievements
1.	CATC, Bhapur	Bhapur, Dhenkanal	13	1 st Prize in Discipline
2.	SNIC, Jaiselmer	Jaiselmer, Rajasthan	16	1 st Prize in Cultural Event
3.	Annual Firing Camp	12(O)Bn.,Dhenkanal	10	-
4.	CATC, Chandikhol	Chandikhol, Cuttack	03	-
5.	CATC, Nalco	Nalco, Angul	09	1 st position in Discipline

B. Career Options :

Apart from regular reservation for NCC cadets in various Govt. sector jobs and higher studies, there is 100 vacancies allotted for NCC 'C' certificate holders in short service Commission in Indian Army. They are exempted from appearing in the written Combined Defence Examination conducted by UPSC.

C. Scholarship :

Sahara Scholarship for perusing higher studies in professional courses is being awarded to the cadets who have completed 2 years of NCC with minimum 80% attendance. Scholarship Amount : Rs. 30000/- each annually.

Cadets Welfare Society Scholarship : A sum of Rs. 5000/- each awarded to 500 cadets.

22. SOCIETY OF PHYSICAL EDUCATION & RECREATION (SPER)

The Society of Physical Education & Recreation is a key avenue for Games and Sports activities of the students. The Society is run by the nominated/elected student Secretaries and Class Representatives. The activities are well planned, organised and conducted under the supervision of associated faculty members and a physical Training Instructor. The institute boasts of having one of the largest and best multi-purpose playground of the State (Dr. M.P. Mishra Memorial Playground) having provision for a 400 mtrs. Athletic Track, Cricket ground, Football ground, and Hockey ground. The Institute also has one Basketball Court, Flood lighted Badminton and Volleyball courts etc. The Society has been organising many District Level, University level and State level tournaments. SPER conducts the Annual Athletic Meet as well as the Inter Class Tournaments in various major games round the year. "UTSAHAN" an All Odisha Inter Engineering College Sports Meet for Degree Colleges is being organised by SPER for last three years and similarly "MEGALOMANIA" The Games Festival of Engineering Schools and Polytechnics of Odisha are being conducted by the society. The institute teams in different discipline have often come back with flying colours from participation in BPUT, IIT and other tournaments.

23. IGIT HEALTH CLUB

A multi Gym named the IGIT HEALTH CLUB provides opportunity to keep the students, staff and their wards physically fit. The club at present is well equipped with modern apparatus for three segments such as Cardio Vascular efficiency, Weight Training (Shape Up in Style) and General Fitness. Registered members of the Club are entitled to avail the facilities on payment of nominal user fee. The Winter Session of the Club is 1st Aug. to 31st Jan. Whereas the Summer Session starts from 1st Feb. and ends on 31st July each year.

Enrolment procedures for respective sessions are to be over by 20th of July and January. The Club is managed by the Society of Physical Education & Recreation at present.

24. ALUMNI ASSOCIATION.

Alumni Association of IGIT, Sarang came into existence in the year 1986 by the then name of 'Old Boys Association'. The outgoing students of B.Tech and MCA are inducted as life members of the Association in the "Annual Alumni Meet" held every year. The Alumni Office is situated within the Institute campus and a second office is coming up shortly in Bhubaneswar. The association also has several regional/local chapters operating at different parts of the state and outside the state. These chapters conduct Alumni meets from time to time.. The Association has also set up its own website by the name www.igitalumni.org

25. ACADEMIC REGULATION

25.a. EVALUATION SCHEME FOR B.TECH, B.ARCH, MCA, M.TECH AND M.SC PROGRAMMES UNDER AUTONOMY FROM 2018-2019 ONWARDS ADMISSION BATCH

1. Grading System

A letter grading system shall be followed in the Institute. The uniform Grading System to be followed for all B.Tech, B.Arch, MCA, M.Tech and M.Sc. Academic Programmes shall be as described below:

A Nine Point grading system on base of 10 shall be followed in the Institute. Categorization of these grades and their correlation shall be as under:

Qualification	Grade	Score on 100 Percentage Points	Point
Outstanding	'O'	90 & above up to 100	10
Excellent	'E'	80 & above but less than 90	9
Very Good	'A'	70 & above but less than 80	8
Good	'B'	60 & above but less than 70	7
Fair	'C'	50 & above but less than 60	6
Below Average	'D'	37 & above but less than 50	5
Failed	'F'	Below 37	2
Malpractice	'M'	-	0
Absent	'S'	-	0

Grade-sheet would be issued year-wisely to students who have cleared all the subjects as per syllabus of the lower semesters.

N.B. Grade C shall be considered as average, Grade D shall be pass Grade for theory and Grade C shall be pass Grade for Practical/Sessional/Project/Seminar/Viva-Voce/Internship.

A student's level of competence shall be categorized by a GRADE POINT AVERAGE TO be specified as:

- * SGPA – Semester grade point average
- * CGPA – Cumulative grade point average

It shall be the basis of judging his/ her overall competence in the course.

Definition of terms:

- * POINT – Integer equivalent each letter grade
- * CREDIT – Integer signifying the relative emphasis of individual
- * Course item(s) in a semester as indicated by the Course structure and syllabus.

- * CREDITPOINT *–(b) x (a) for each course item*
- * CREDITINDEX *–ΣCREDITPOINT of course items in a semester*

- * $\text{GRADE POINT} = \frac{\text{CREDIT INDEX}}{\Sigma \text{CREDIT}}$
- * $\text{SEMESTER GRADE POINT AVERAGE (SGPA)} = \frac{\text{CREDIT INDEX}}{\Sigma \text{CREDIT for a Semester}}$
- * $\text{CUMULATIVE GRADE POINT AVERAGE (CGPA)} = \frac{\text{CREDIT INDEX of all previous Semester}}{\Sigma \text{CREDIT of all previous Semester}}$ up to a Semester

2. Examinations: $\Sigma \text{CREDIT of all previous Semester}$

The Institute shall have continuous evaluation system for each theory, practical, sessional, design and project papers.

Theory Papers

A theory paper will have 100 percentage points. The weightage for internal evaluation and the end semester examinations will be as follows:

		Maximum Marks	Pass Marks
Internal Evaluation	Class Test – I of one hour duration	15	-
	Class Test – II of one hour duration	15	-
	Quiz/ Surprise Test	05	-
	Assignments/ Attendance	05	-
	Total	40	-
End Semester Examination of three hours duration		60	21
TOTAL (Internal Evaluation + End Semester Examination)		100	37

Pass grade is Din Theory i.e. 37 percentage points and Ci.e. 50 percentage points in all other items.

Practical Papers

A practical paper shall have 100 percentage points.

Each practical/experiment (work) shall have equal percentage point as its weightage. The relative weightage of the components are also given below in percentage.

Experiment (work) planning and execution	20 %
Results and interpretation	30 %

<i>Report</i>	<i>30 %</i>
<i>Understanding on the theory related to experiment</i>	<i>20 %</i>
<i>Total</i>	<i>100 %</i>

Minimum score for a Pass in Practical Paper shall be 50 percentage points.

Sessional Papers

Sessional paper will carry 100 percentage points.

A sessional job has to be evaluated based on the following considerations.

<i>Quality of job</i>	<i>50 points</i>
<i>Understanding of the job and related theory</i>	<i>30 points</i>
<i>Quality of report and Viva - Voce</i>	<i>20 points</i>
<i>Total</i>	<i>100 points</i>

Minimum score for a Pass in Sessional Paper shall be 50 percentage points.

Project Item

A Project item shall carry 100 percentage points.

Evaluation of a major / minor project will be done on following points.

<i>Understanding the relevance, scope and dimension of the project</i>	<i>10 points</i>
<i>Relation to literature / application</i>	<i>10 points</i>
<i>Methodology</i>	<i>10 points</i>
<i>Quality of Analysis and Results</i>	<i>10 points</i>
<i>Interpretations and Conclusions</i>	<i>20 points</i>
<i>Report</i>	<i>20 points</i>
<i>Defence</i>	<i>20 points</i>
<i>Total</i>	<i>100 points</i>

The evaluation shall be done by a committee of teachers where the Project Supervisor shall be a member. His evaluation shall carry 50 percent weightage. The other members shall have 50 percentage weightage. For major project, an external expert shall be involved.

Minimum score for a Pass in Project item is 50 percentage points.

Seminar Item

Seminar performance will be evaluated by a committee of teachers. It will have the following components.

<i>Quality of Material</i>	<i>30 points</i>
<i>Quality of Presentation</i>	<i>30 points</i>
<i>Quality and extent of response from other students</i>	<i>20 points</i>
<i>Participation in other Presentations</i>	<i>20 points</i>
<i>Total</i>	<i>100 points</i>

Minimum score for a Pass in Seminar item shall be 50 percentage points.

Comprehensive Viva - Voce Item

This shall be done by a committee of teachers with participation of an External Expert from an Institution / Industry of repute.

The Comprehensive Viva-Voceltem shall carry 100 percentage points. Minimum score for a Pass in Viva-Voce is 50 percentage points.

Internship Item (for B.Tech programmes)

The evaluation shall be done by a committee of teachers. The Internship Item shall carry 100 percentage points.

Minimum score for a Pass in Internship is 50 percentage points.

Mandatory Courses / Audit Courses

Minimum attendance is necessary to clear the Mandatory or Audit courses. No grades are awarded in these courses.

25b. Academic Regulations OF Diploma Programme

1. **Eligibility of Appearing Examination:**

No student shall be admitted to any examination unless he or she has:

Attended at least 75 percent of the total number of classes and 750 minimum contact hours as per A.I.C.T.E. norms from the beginning of the session taken during the year in each of the theory papers and practical classes individually to be certified by the teacher taking the classes concerned and endorsed by the Principal. In case of students remaining any other reason, they shall lose their attendance and the percentage of attendance shall be calculated by taking in account all classes actually taken during the year. State Government on the recommendation of the Director of Technical Education & Training, Orissa subject to non-contradiction of A.I.C.T.E. guide lines for achieving a minimum contact hour may declare any part of the session as holiday/vacation or otherwise for not taking into account in percentage calculation. As per the directives of SCTE & VT student's Bio-metric Attendance system has been implemented in the institute.

And has good conduct in the Inst./Hostel to the satisfaction of the principal of the institution in which she/he is student.

Shortage of attendance on account of illness if any case be condemned upto 15 percent by the secretary. State Council of Technical Education and Training, on application in writing along with a medical certificate duly recommended by Principal provided that the said medical certificate should be from the Medical Officers of the Institution or from a Govt. Doctor not below the rank of an Asst. surgeon.

A student who have remained absent for a period of 30 days or more without any intimation, deemed to have been discontinued and they shall not be re-admitted during that session.

Student remaining absent for more than 3 days with prior intimation may be considered for re-admission on fulfilment of the following conditions.

- * Parent/Guardian shall personally approach the concerned Principal with written application requesting for re-admission.
- * Pay re-admission fee as prescribed.

N.B.: Boarders who have remained absent for a period of 3 days or less, the above such clause I-IV and V will not be applicable, but such incidences should not occur frequently causing loss of contact hours more than 20 per cent in any month. In such cases Principals of the Institution are authorised to apply any of the clauses of IV or V as deemed fit to any irregular boarder, immediately after recurrence of loss of contact hours exceeding 20 per cent. Review of absentees is the duty of every teacher of the

concerned faculty.

2. **Pass in Examination:**

In order to pass in examination Candidates should obtain the marks as prescribed in Examination Scheme of the Syllabus from time to time.

Theory: At least 35 percent of the total marks in each theory papers.

Practical: At least 50 percent of the total marks in each practical examination.

Aggregate: 45 percent in aggregate of the total marks for Engineering Courses. Pass mark in each subject is 45 percent, Aggregate 45 percent.

3. **Back Paper Concession:**

Students passed in aggregate and failed in one or two or up to maximum of those subjects will be eligible to avail back paper concession and such students will go to higher class provided they are eligible otherwise. Except the above other students will appear in all subjects even though they have passed in

aggregate and shall not go to higher class.

4. **Award of Division:**

On passing all the examinations as prescribed in the syllabus, Final Diploma/Post Diploma Certificates will be issued by the State Council for Technical Education and Vocational Training, Orissa 1st Class, 2nd Class and Pass depending on the marks secured by candidates as detailed below:

For this purpose, the total marks of 2nd year and 3rd year will be taken in to account for 3 years Diploma Course. In all other courses the entire total marks of the course will be taken into account to arrive at the percentage of marks secured.

1st Class with Hon. : 75 per cent and above of the marks secured.

1st Class : 60 per cent and above but less than 75% of marks

2nd Class : 45 per cent and above but less than 60 per cent of the marks secured

Pass: Below 45 percent marks secured but above 40 percent in case of Engineering Diploma.

* Students who have secured more than 75 percent with back paper in 2nd or 3rd Year Examinations are not eligible for award of honours.

* Immediately after declaration of the results, the successful candidates as per sub rule (i) above may apply through their respective principals in prescribed application form with fees for issue of final Diploma/post Diploma Certificate. Successful candidates of orthotics or prosthetics Diploma are required to complete six months of internship before applying for final Diploma Certificates in the same manner.

Duplicate Diploma can be issued if the Original Diploma is actually lost/destroyed by the candidate for which a court affidavit to that effect in original has to be submitted by the candidate along with the requisite fees and application in the prescribed form through the Principal of the concerned Institution. On receipt of the same, the Duplicate Diploma will be issued by the State Council.

5. **Examination Rules (Re-Admission):**

The following categories of students may be allowed for readmission.

Students in the 1st year class who could not appear in the examination of that year due to shortage of attendance may seek readmission to the class in the immediate subsequent academic year only, provided that he or she has attended at least 40 percent of the class in each subject (both theory & practical) held during the year in which he or she has fallen short of attendance.

A student who has studied in second year or third year as the case may be, but could not appear in the examination of that year due to shortage of attendance may seek readmission 2nd or 3rd year, as the case may be beginning in the next subsequent year only.

Students who have failed in all subjects may if he/she so like take readmission in the same class as regular students.

Re-admission in both the above cases is subject to satisfactory conduct of the students.

Students coming under clause (i), (ii) above and intending to take readmission in the institution has to apply for the same before the commencement of the session and his attendance will be counted from the beginning of the session along with regular students.

6. *Limitation of Period of appearing Diploma Examination:*

Every student shall be required to complete and pass the Diploma Course within Seven years from the date of his first registration in the State Council including, the period of discountenance, but excluding the debarred period under rule-II. The students who have failed to complete & pass the Diploma Course within 7 years as stated above shall be issued a compulsory T.C.

Students who have been continuously appearing all examinations without losing any chance, may be allowed one more chance beyond 7 years to complete the Diploma on the recommendation of the concerned Principal.

7. *Procedure for Admission into the Diploma course:*

Selection of candidates for taking admission into the Diploma course of the Institute are being done by the Director of Technical Education and Vocational Training, Orissa. Interested candidates desirous of taking admission into this Institute are to apply for the same in response to the advertisement published by the Director, Technical Education and Vocational training, Orissa and give their option in favour of the Institute.

FEES

This being an Institute dealing with both degree and diploma students in the same infrastructure the diploma students no doubt will get enormous facilities for their curricular development with payment of the fees as will be decided by the management from time to time.

The fees structure of Govt. of Odisha will be applicable for Diploma students of GIT, Sarang. N.B.:

1. *The fees structure may be revised as will be revised/modified by the management of the Institute, without any prior notification.*
2. *All 2nd and 3rd year students are also to pay the same fees except one time refundable fees.*
 - * *Student desirous to stay in the hostel shall have to pay Rs. 2500/- towards Mess due at the time of allotment of accommodation.*
 - * *Students seeking re-admission to a particular year/class will pay Rs. 100/-. Students are to pay their monthly hostel charges as per the actual for the respective months as will be notified by the Superintendent in the hostel before being permitted to pay the institute dues.*

All the fees paid including the caution money deposits and mess security will be forfeited to the institute, if a student is removed or withdrawn from the institute without completing the whole course. Mess advance may be refunded after deduction of dues if any.

In case of new entrant who wants to withdraw himself from the Institute after admission, he should be supported by his parent/guardians giving reason thereof. No such application will ordinarily be entertained after 30 days of the respective classes. On necessary approval of the withdrawal request, the following fees may be refundable after deduction dues if any.

- * *Institution general caution money*
- * *Mess advance*

EXAMINATIONS

The State Council shall conduct examinations at the end of each Semester course namely Winter Semester & Summer Semester.

26. COURSE STRUCTURE & SYLLABUS FOR FIRSTYEAR

A. B.Tech Programme 2019-20 Batch

First Semester				Second Semester			
Theory				Theory			
Course Code	Course Name	L-T-P (Periods /Week)	Credits	Course Code	Course Name	L-T-P (Periods /Week)	Credits
BSMA1101	Mathematics-1	3-1-0	3	BSMA1106	Mathematics-II	3-1-0	3
BSPY1102/ BSCY1103	Physics/ Chemistry	3-0-0	3	ESME2113	Engineering Mechanics	3-1-0	3
ESEE2101/ ESEC2102	Basic Electrical Engineering / Basic Electronics Engineering	2-0-0	2	BSCY1103/ BSPY1102	Chemistry / Physics	3-0-0	3
ESCE2103/ ESME2104	Basic Civil Engineering/ Basic Mechanical Engineering	2-0-0	2	ESEC2102/ ESEE2101	Basic Electronics Engineering / Basic Electrical Engineering	2-0-0	2
HSHM3101/ ESCS2105	Communicative English / Programming Language using C	3-0-0	3	ESME2104/ ESCE2103	Basic Mechanical Engineering / Basic Civil Engineering	2-0-0	2
				ESCS2105/ HSHM3101	Programming Language using C/ Communicative English	3-0-0	3
Total (Theory)		14	13	Total (Theory)		18	16
Practical / Sessional				Practical / Sessional			
BSPY7104/ BSCY7105	Physic Lab/ Chemistry Lab	0-0-3	2	BSCY7105/ BSPY7104	Chemistry Lab/ Physic Lab	0-0-3	2

ESEE7106/ ESEC7107	Basic LElectrical Engg. Lab/Basic Electronics Engg. Lab	0-0-3	1	ESEC7107/ ESEE7106	Basic Electronics Engg. Lab /Basic LElectrical Engg. Lab	0-0-3	1
ESCE7108/ ESME7109	Basic Civil Engg Lab./Basic Mechanical Engg. Lab	0-0-3	1	ESME7109/ ESCE7108	BasicMechanicalEngg. Lab /Basic Civil Engg Lab.	0-0-3	1
HSHM7102/ ESCS7110	Communicative English Lab/ Programming Language using C Lab	0-0-3	1	ESCS7110/ HSHM7102	Programming Language using C Lab /Communicative English Lab	0-0-3	1
ESCE7111/ ESME7112	Engineering Graphics & Design Lab/ Workshop Practice	0-0-3	2	ESME7112/ ESCE7111	Workshop Practice / Engineering Graphics & Design Lab	0-0-3	2
MCGN9101	Induction Programme (21 Days)	-	0	MCGN9102	(A) NCC/ (B) NSS/ (C) Yoga/ (D) ProfessionalEthics	-	0
Total (Practical / Sessional)		15	7	Total (Practical / Sessional)		15	7
Total		29	20	Total		33	23
Total Semester Credits: 20				Total Semester Credits: 23			
Total Cumulative Credits: 20				Total Cumulative Credits: 43			

B. B.Arch Programme 2019-20 Batch

First Semester				Second Semester			
Theory				Theory			
Course Code	Course Name	L-T-P (Periods /Week)	Credits	Course Code	Course Name	L-T-P (Periods /Week)	Credits
AR101	Introduction to Architecture	3-0-0	3	AR201	Environmental Psychology	3-0-0	3
AR102	English	3-0-0	3	AR202	History of Architecture-I (Buddhist, Jain, Hindu)	3-0-0	3
AR103	Building Materials-I	3-0-0	3	AR203	Mechanics-II	3-0-0	3
AR104	Mechanics-I	3-0-0	3				
Total (Theory)		12	12	Total (Theory)		9	9
Practical / Sessional				Practical / Sessional			
AR105	Descriptive Geometry-I	0-0-6	3	AR204	Building Construction - I	0-0-6	3
AR106	Architectural Presentation-I (Free Hand Drawing)	0-0-3	2	AR205	Descriptive Geometry-II	0-0-6	3
AR107	Workshop- I (Metal and Woodwork)	0-0-6	2	AR206	Architectural Presentation-II (Paint Brush and Others)	0-0-3	2
AR108	Basic Design-I	0-0-6	6	AR207	Workshop- II (Arch. Model Making)	0-0-3	1
				AR208	Basic Design-II	0-0-6	6
Total (Practical / Sessional)		21	13	Total (Practical / Sessional)		24	15
Total		33	25	Total		33	24
Total Semester Credits: 25				Total Semester Credits: 24			
Total Cumulative Credits: 25				Total Cumulative Credits: 49			

C. MCA Programme 2019-20 Batch

First Semester				Second Semester			
Theory				Theory			
Course Code	Course Name	L-T-P (Periods /Week)	Credits	Course Code	Course Name	L-T-P (Periods /Week)	Credits
CAC101	Programming	3-0-0	3	CAC201	Data Structure	3-0-0	3
CAC102	Computer Organization and Architecture	3-0-0	3	CAC202	OOPs using C++	3-0-0	3
CAS101	Discrete Mathematics	3-0-0	3	CAC203	Microprocessor & Assembly level language programming	3-0-0	3
CAH101	Management Information System	3-0-0	3	CAC204	Operating Systems	3-0-0	3
CAH102	Business Communications	3-0-0	3	CAC205	Computational Mathematics & Numerical Methods	3-0-0	3
				CAH201	Engineering Economics & Costing	3-0-0	3
Total (Theory)		15	15	Total (Theory)		18	18
Practical / Sessional				Practical / Sessional			
CAC103	Extra-Cirricular activities & Social Work	0-0-2	2	CAC206	Data Structures Lab	0-0-3	3
CAC104	Programming in C Lab	0-0-3	3	CAC207	OOPs using C++ Lab	0-0-3	3
CAH103	Business Communications Lab	0-0-3	3	CAC208	Microprocessor & Assembly level language programming Lab	0-0-3	3
				CAC209	Operating Systems Lab	0-0-3	2
Total(Practical/Sessional)		8	8	Total (Practical / Sessional)		12	11
Total		23	23	Total		30	29
Total Semester Credits: 23				Total Semester Credits: 29			
Total Cumulative Credits: 23				Total Cumulative Credits: 52			

27. COURSE STRUCTURE & SYLLABUS FOR FIRST YEAR DIPLOMA PROG.

DIPLOMA PROGRAMME

SYLLABUS FOR DIPLOMA COURSES UNDER STATE COUNCIL FOR TECHNICAL EDUCATION AND VOCATIONAL TRAINING, ODISHA.

1st SEMESTER

STATE COUNCIL FOR TECHNICAL EDUCATION AND VOCATIONAL TRAINING, ODISHA TEACHING AND
EVALUATION SCHEME FOR FIRST SEMESTER DIPLOMA IN ENGINEERING COURSES

STATE COUNCIL FOR TECHNICAL EDUCATION AND VOCATIONAL TRAINING, ODISHA								
TEACHING AND EVALUATION SCHEME FOR 1 st Semester (Common To ALL ENGINEERING COURSES) (wef 2019-20)								
Subject Code	Subject	Period/Week			Evaluation Scheme			
		L	T	P	MidSem Internal Assessment/ Sessional	End Sem Exams	Exams (Hours)	Total
<i>Theory</i>								
Th.1a Th.1b	Communicative English or Computer Application	4	-	-	20	80	3	100
Th.2a Th.2b	ENGINEERING PHYSICS OR ENGINEERING CHEMISTRY	4	-	-	20	80	3	100
Th.3	ENGINEERING MATHEMATICS-I	5	1	-	20	80	3	100
Th.4 (a&b)	BASIC ELECTRICAL ENGG & ELECTRONICS ENGINEERING	4	-	-	20	80	3(1.5*2)	100
Total		17	-	-	80	320	-	400
<i>Practical</i>								
Pr.1a Pr.1b	COMMUNICATIVE ENGLISH LABOR COMPUTER APPLICATION LAB	-	-	4	50	-	-	50
Pr.2a Pr.2b	ENGG. PHYSICS LABOR ENGG. CHEMISTRY LAB	-	-	4	50	50	3	100
Pr.3a Pr.3b	ENGG. DRAWING OR WORKSHOP PRACTICE	-	-	6	-	100	3	100
Pr.4	SEMINAR	-	-	4	50	-	-	50
<i>Student Centred Activities (SCA)</i>		-	-	3	-	-	-	-
Total		-	-	21	150	150	-	300

<i>Grand Total</i>	<i>17</i>	<i>1</i>	<i>21</i>	<i>230</i>	<i>470</i>	<i>-</i>	<i>700</i>
<i>Abbreviations: L-Lecturer, T-Tutorial, P-Practical. Each class is of minimum 55 minutes duration</i>							
<i>Minimum Pass Mark in each Theory subject is 35% and in each Practical subject is 50% and in Aggregate is 40%</i>							

SCA shall comprise of Extension Lectures/Personality Development/Environmental issues/Quiz/Hobbies/Field visits/cultural/activities/Library studies etc. Seminar and SCA shall be conducted in a section

There shall be 1 Internal Assessment done for each of the Theory Subject. Sessional Mark shall be total of the performance of individual different job/experiments in a subject throughout the semester

STATE COUNCIL FOR TECHNICAL EDUCATION AND VOCATIONAL TRAINING, ODISHA								
TEACHING AND EVALUATION SCHEME FOR 2 nd Semester (Common To ALL ENGINEERING COURSES)(wef 2018-19)								
Subject Code	Subject	Period/Week			Evaluation Scheme			
		L	T	P	Mid Sem Internal Assessment/ Sessional	End Sem Exams	Exams(Hours)	Total
Theory								
Th.1a Th.1b	Communicative English or Computer Application	4	-	-	20	80	3	100
Th.2a Th.2b	ENGINEERING PHYSICS OR ENGINEERING CHEMISTRY	4	-	-	20	80	3	100
Th.3	ENGINEERING MATHEMATICS-II	5	1	-	20	80	3	100
Th.4	Engg. Mechanics	4	-	-	20	80	3(1.5*2)	100
Total		17	-	-	80	320	-	400
Practical								
Pr.1a Pr.1b	COMMUNICATIVE ENGLISH LAB OR COMPUTER APPLICATION LAB	-	-	4	50	-	-	50
Pr.2a Pr.2b	ENGG. PHYSICS LAB OR ENGG. CHEMISTRY LAB	-	-	4	50	50	3	100
Pr.3a Pr.3b	ENGG. DRAWING OR WORKSHOP PRACTICE	-	-	6	-	100	3	100
Pr.4	SEMINAR	-	-	4	50	-	-	50
Student Centred Activities(SCA)		-	-	3	-	-	-	-
Total		-	-	21	150	150	-	300

<i>Grand Total</i>	<i>17</i>	<i>1</i>	<i>21</i>	<i>230</i>	<i>470</i>	<i>-</i>	<i>700</i>
<i>Abbreviations: L-Lecturer, T-Tutorial, P-Practical. Each class is of minimum 55 minutes duration</i>							
<i>Minimum Pass Mark in each Theory subject is 35% and in each Practical subject is 50% and in Aggregate is 40%</i>							
<i>SCA shall comprise of Extension Lectures/Personality Development/Environmental issues/Quiz/Hobbies/Field visits/ cultural/activities/Library studies etc. Seminar and SCA shall be conducted in a section</i>							
<i>There shall be 1 Internal Assessment done for each of the Theory Subject. Sessional Marks shall be total of the performance of individual different job/experiments in a subject throughout the semester</i>							

27a. FEESSTRUCTURE FORB.Tech/B.Arch./MCA/M.Tech STUDENTS -2019-20

(AsnotifiedbyGovt.inEmploymentandTechnicalEducation&TrainingDeptt.VideNotificationNo.

I-tte-47/2014/ETET dated 3rd June,2014)**INSTITUTE****Fees Structure for Regular Courses :**

1.	Tuition fees	Rs.	12,000/-
2.	Development fees	Rs.	7,000/-
3.	Lab. Maintenancefee	Rs.	1,500/-
4.	Students Activitiesfee	Rs.	1,500/-
5.	Internal Examinationfee	Rs.	1,800/-
6.	Site Visitfee	Rs.	600/-
7.	Caution Money	Rs.	2,500/- (One time & refundable)
8.	Training & Placement fee	Rs.	5,000/-
9.	Transportation fee	Asperactual(TobenotifiedbytheInst.)	
10.	Hostel fee	Asperactual(TobenotifiedbytheInst.)	
11.	Alumni fee	Rs.	1,500/- (One time fee)
12.	Internet Fee	Rs.	1,000/-
13.	SSG Fee	Rs.	100/-
TOTAL		Rs.	34,500/-

Fees Structure for Self Financing Scheme(SFS) courses :

1.	Tuition fees	Rs.	45,000/-
2.	Development fees	Rs.	15,000/-
3.	Lab. Maintenancefee	Rs.	3,000/-
4.	Students Activitiesfee	Rs.	3,000/-
5.	Internal Examinationfee	Rs.	2,000/-
6.	Site Visitfee	Rs.	1,000/-
7.	Caution Money	Rs.	3,000/- (One time & refundable)

8.	<i>Training & Placement fee</i>	Rs.	4,000/- (one time)
9.	<i>Transportation fee</i>		As per actual (To be notified by the Inst.)
10.	<i>Hostel fee</i>		As per actual (To be notified by the Inst.)
11.	<i>Alumni fee</i>	Rs.	1,500/- (One time fee)
12.	<i>Internet Fee</i>	Rs.	1000/-
13.	<i>SSG Fee</i>	Rs.	100/-
<i>TOTAL</i>		Rs.	78,600/-

HOSTEL

Students interested to stay in the hostel are to pay the following charges extra.

* *Establishment Charges & Development Fee* -Rs. 4000/- per year

N.B: Apart from the above the students interested to stay in the Hostel are to pay Hostel caution money of Rs. 2,500/- and mess advance as applicable for 6 months fooding.

27b. FEES STRUCTURE OF DIPLOMA STUDENTS - 2019-20

(Fees prescribed by Govt. in E&TE & TDeptt. vide Resolution No. 3520/ETET dated 22nd June, 2013 (for 2013-14 to 2015-16) applicable for 1st year admission)

INSTITUTE

1.	Tuition fees	Rs.	2,500/-
2.	Development fees	Rs.	2,000/-
3.	Cultural Fee	Rs.	100/-
4.	Magazine Fee	Rs.	50/-
5.	Athletic/games Fee	Rs.	100/-
6.	HSC mark verification Fee	Rs.	50/- (Not payable for 2 nd & 3 rd year)
7.	Internal Exam.Fee	Rs.	50/-
8.	Registration Fee	Rs.	50/- (Not payable for 2 nd & 3 rd year)
9.	Maintenance	Rs.	100/-
10.	Caution Money(Refundable)	Rs.	500/- (Not payable for 2 nd & 3 rd year)
11.	Welfare fund contribution Fee	Rs.	300/- (Not payable for 2 nd & 3 rd year)
TOTAL FEES		Rs.	5,800/-

As such the enrolment fees for the 2nd and 3rd year, the fees will be Rs. 4,900/- each.

HOSTEL

Students interested to stay in the hostel are to pay the following charges extra.

1.	Seat rent	Rs.	2000/- per year
2.	Contingency & Dev. Fees	Rs.	1000/- per year
3.	Actual messing charges as will be charged for their monthly fooding.		

N.B. Apart from the above the students interested to stay in the Hostel are to pay Hostel caution money of Rs. 2,500/- and mess advance as applicable for 6 months fooding.

27c. GENERAL RULES FOR PAYMENT OF FEES

A student is required to pay all the dues under the column 2 of the "Schedule of Fees" which includes the dues for the 1st instalment at the time of admission.

All the fees paid including the Caution Money deposits & mess security will be forfeited to the Institute if a student is removed or withdrawn from the institute without completing the whole course. Mess advance may be refunded after deduction of dues if any.

In case of a new entrant who wants to withdraw himself from the Institution after admission he should submit a written application duly supported by his parent/guardian giving reasons for the proposed withdrawal. No such application shall ordinarily be entertained after 30 days from the starting of the respective classes.

The Institute caution money & mess security deposits are refundable after deduction of dues, if any, only after the student finally leaves the institute on completion of the course. For this refund a written request shall be submitted by the student.

Enrollment to Subsequent Semester:

Enrollment to subsequent semester is to be made by paying the dues on fixed date and when notified. Such students who are not able to enroll in time will be treated not to be in the rolls. They may be readmitted with a fine as applicable within 30 days failing which they will not ordinarily be allowed to take readmission at all to the respective semester. Such students will be required to leave the Institute and hostel and may take readmission in the next session if academic regulations permit.

It is therefore the responsibility of the student and their parents/local guardian concerned to arrange and remit the fees on or before the due date. In case the student is not available in the campus for reason whatsoever. Parents/Guardians should ensure that the Institute/Hostel dues are paid within stipulated date.

28. HOSTEL FACILITIES & REGULATIONS

The institute has united number of seats in the campus hostels. Accommodation has been arranged in the hostels as scheduled below:

Akash Bhawan	Only 1st year B.Tech/MCA/BArch boys
Rohini Bhawan	Girl students of B.Tech/M.Tech/MCA & Diploma/B.
Prithvi Bhawan	Arch.
Surya Bhawan	B.Tech/MCA Boys (Final Year)
Bramhos Bhawan	B.Tech/MCA Boys (Final Year and Third year)
Aryabhata Bhawan	B.Tech/MCA Boy except 1 st year students
Bhaskar Bhawan	B.Tech/MCA Boy except 1 st year students
Agni Bhawan	Diploma Boys students

Students admitted to hostel have to observe carefully the hostel rules as listed below. The rules are subject to modification from time to time. Violation of hostel rules may result in strict disciplinary action.

* Fresh hostel allotment will be done each year on CGPA basis.

28a. RAGGING : PREVENTIVE/MEASURES

RAGGING INSIDE OR OUTSIDE THE HOSTEL OR CAMPUS IS BANNED BY THE GOVERNMENT OF INDIA. ANYBODY, FOUND INDULGED IN RAGGING IN ANY FORM, WILL BE SUMMARILY EXPELLED FROM THE INSTITUTE.

28b. WHAT CONSTITUTES RAGGING:

Ragging constitutes one or more of any of the following acts.

- Any conduct by any student or students whether by words spoken or written or by an act which has the effect of teasing, treating or handling with rudeness a fresher or any other student;
- Indulging in rowdy or undisciplined activities by any student or students which causes or is likely to cause annoyance, hardship, physical or psychological harm or raise fear or apprehension thereof in any fresher or any other student;

- iii. *Asking any student to do any act which such student will not in the ordinary course do and which has the effect of causing or generating a sense of shame or torment or embarrassment so as to adversely affect the physique or psyche of such fresher or any other student;*
- iv. *Any act by a senior student that prevents, disrupts or disturbs the regular academic activity of any other student or a fresher;*
- v. *Exploiting the services of a fresher or any other student for completing the academic tasks assigned to an individual or a group of students.*
- vi. *Any act of financial extortion or forceful expenditure burden put on a fresher or any other student by students;*

- vii. Any act of physical abuse including all variants of it, sexual abuse, homosexual assaults, stripping, forcing obscene and lewd acts, gestures causing bodily harm or any other danger to health or person;
- viii. Any act or abuse by spoken words, emails, post, public insults which would also include deriving perverted pleasure, vicarious or sadistic thrill from actively or passively participating in the discomfiture to fresher or any other student;
- ix. Any act that affects the mental health and self-confidence of a fresher or any other student with or without an intent to derive a sadistic pleasure or showing off power, authority or superiority by a student over any fresher or any other student

ACTION IN THE EVENT OF RAGGING

- i. The institutions shall punish student to those found guilty, one or more of the following punishments, namely:
- ii. Suspension from attending classes and academic privileges
- iii. Withholding/withdrawing scholarship/fellowship and other benefits
- iv. Debarring from appearing in any test/examination or other evaluation process
- v. Withholding results
- vi. Debarring from representing the institution in any regional, national or international meet, tournament, youth festival etc.
- vii. Suspension/expulsion from the hostel
- viii. Cancellation of admission
- ix. Rustication from the institution for period ranging from one to four semesters
- x. Expulsion from the institution and consequent debarring from admission to any other institution for a specified period, provided that where the persons committing or abetting the act of ragging are not identified, the institution shall resort to collective punishment.
- xi. The following committees have been constituted to prevent ragging activities in the Institute

CIRCULAR

As per guideline of All India Council for Technical Education, Hon'ble Supreme Court, Government of India and Government of Orissa the following committees are constituted to prevent ragging in any form inside or outside the Institute campus.

1. Anti-Ragging Committee

Director, I.G.I.T., Sarang	Chairman
Tahasildar, Parjang	Member
Medical Officer, Parjang	Member
I.I.C., Parjang Police Station	Member
OIC, Sarang Police Outpost	Member
Sri Subal Ku. Rout, Media Parson, Sambad	Member
Sri Rushar Ranjan Paltasingh, Media Person, Odisha Express	Member
Sri Aswini Kumar Nayak, Bibertan NGO	Member
Dean, SW, I.G.I.T., Sarang	Member

<i>Warden of Hostels</i>	<i>Member</i>
<i>Superintendent, Surya Bhawan</i>	<i>Member</i>
<i>Superintendent, Bhaskar Bhawan</i>	<i>Member</i>
<i>Superintendent, Aryabhata Bhawan</i>	<i>Member</i>
<i>Superintendent, Akash Bhawan</i>	<i>Member</i>
<i>Superintendent, Agni Bhawan</i>	<i>Member</i>
<i>Superintendent, Rohini Bhawan</i>	<i>Member</i>
<i>Superintendent, Prithiv Bhawan</i>	<i>Member</i>

<i>Superintendent, OffCampus Hostel</i>	<i>Member</i>
<i>Dr.S.C.Pattnaik, HOD, Mett. Engg.</i>	<i>Member</i>
<i>Dr.(Mrs.)U.Bhanja, HOD, ETC</i>	<i>Member</i>
<i>Smt. Asima Rout, A.P., ETC</i>	<i>Member</i>
<i>Dr. B.B. Choudhury, A.P., Mechanical</i>	<i>Member</i>
<i>Registrar, I.G.I.T., Sarang</i>	<i>Member</i>
<i>Student Representative, 1st Year (Boy/Girl)</i>	<i>Member</i>
<i>Student Representative, 1st Year (Boy/Girl)</i>	<i>Member</i>
<i>Student Representative, 2nd Year (Boy/Girl)</i>	<i>Member</i>
<i>Student Representative, 3rd Year (Boy/Girl)</i>	<i>Member</i>
<i>Student Representative, 4th Year (Boy/Girl)</i>	<i>Member</i>
<i>Officer in Charge Academic and Examination</i>	<i>Member - Convenor</i>

2. RAGGING PREVENTION COMMITTEE

<i>Prof M Moharana, Dean Student Welfare</i>	<i>9437463700</i>
<i>Prof S C Pattanaik, HOD Metallurgical Engg</i>	<i>9438856501</i>
<i>Prof B D Sahoo, HOD, Mech Engg</i>	<i>9861190444</i>
<i>Prof P K Pani, HOD Civil Engg</i>	<i>9437184435</i>
<i>Dr Mrs P Das, HOD Electrical Engg</i>	<i>9437565799</i>
<i>Dr Mrs Urmila Bhanja, HOD ETC</i>	<i>9437142056</i>
<i>Dr B B Choudhury, Prof. T & P</i>	<i>8270836688</i>
<i>Prof S N Mishra, HOD, CSEA</i>	<i>9861414972</i>
<i>Mr. K.D.Sha, Superintendent, Bhaskar Bhawan</i>	<i>7978051779</i>
<i>Dr Sunil Tripathy, Superintendent, Akash Bhawan</i>	<i>8280295995</i>
<i>Mr P R Dhal, Superintendent, Aryabhata Bhawan</i>	<i>9437830060</i>
<i>Dr B Tripathy, Superintendent, Brahmosh Bhawan</i>	<i>9861278000</i>
<i>Dr Dipa Das, Superintendent, Prithivi Bhawan</i>	<i>8895680655</i>

<i>Mrs J Naayak, Superintendent, Rohini Bhawan</i>	<i>9439829975</i>
<i>Mr D K Swain, Superintendent, Agni Bhawan</i>	<i>9937658405</i>
<i>Dr R Behera, Superintendent, Surya Bhawan</i>	<i>9439622794</i>
<i>Dr C R Sahoo, Registrar I/c</i>	<i>9861110442</i>
<i>Dr G K Pothal, Warden of hostels and Convenor</i>	<i>9438201029</i>

3. **ANTIRAGGING SQUAD (FACULTY)**

<i>Mr Anup Bairagi</i>	<i>Chemical Engg</i>
<i>Mr Rabirannjan Murmu</i>	<i>Chemical Engg</i>
<i>Mr Harekrushna Sutar</i>	<i>Chemical Engg</i>
<i>Mr Kashinath Barik</i>	<i>Chemical Engg</i>
<i>Mr Kali Charan Pradhan</i>	<i>Electrical Engg</i>
<i>Mr Binay Ku Nayak</i>	<i>Electrical Engg</i>
<i>Mr K D Sa</i>	<i>ETC Engg</i>
<i>Mr Paresh Ku Pasayat</i>	<i>ETC Engg</i>
<i>Mr Rabinarayan Sethy</i>	<i>Mech Engg</i>
<i>Mr Anand Gupta</i>	<i>Mechanical Engg</i>
<i>Mr Sudhakar Majhi</i>	<i>Mech Engg</i>

Mr Brijesh Kumar

Electrical Engg

Mr Jogendra Majhi

Metallurgical Engg

Mr Amulya Bihari Pattnayak

Metallurgical Engg

Mr Niroj Ku Pani

ComputerSc&Engg

Mr Biswanath Sethi

ComputerSc&Engg

Mr Rajanikanta Mishra

PTI

4. *SPECIALSQUADFORLADIESHOSTEL*

Mrs Brahmotri Sahoo

Chemical Engg

Mrs Ipsa Tripathy

Metallurgical Engg.

Ms A Priyadarshini

Civil Engg

Mrs J Nayak

Mech Engg

Mrs Babita Singh

Mech Engg

Ms July Randhari

Mech Engg

Mrs Supriya Sahu

Mechanical Engg

5. *ANTIRAGGINGSQUAD(STUDENTS)(Boys)*

Final YearStudents

	2	<i>Electrical</i>	<i>Bikram Keshari Mishra</i>	<i>Lisna Mohanty</i>
	3	<i>Civil</i>	<i>Siddharth Priyadarshan</i>	<i>Arijita Priyadarsini</i>
	4	<i>ETC</i>	<i>Samyat Sahu</i>	<i>Nitu Panda</i>
	5	<i>CSE</i>	<i>Nihar RanjanPanda</i>	<i>Kajol Shakhari</i>
5.2.	6	<i>Metallurgy</i>	<i>Devikalyan Majhi</i>	<i>P. Ruchidipta</i>
	7	<i>Chemical</i>	<i>Birupakshy Mishra</i>	<i>Madhusmita Sahu</i>
	8	<i>Production</i>	<i>Tapas Maharana</i>	<i>Ankita Mohanty</i>
	9	<i>Architecture</i>	<i>Rohan Sahoo</i>	<i>Sandhaya RaniPanda</i>

3rd Year Students

	1	<i>Civil</i>	<i>Aditya Narayan Pratihari</i>	<i>Suprava Mishra</i>
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29. HOSTEL RULES:

CODE OF CONDUCT (Hostel Boarders)

1. All boarders are required to maintain good standard of behaviour with others.
2. The rooms, common areas and surroundings of the hostel should be kept clean and hygienic. Disfiguring the hostel premises shall be treated as an offence.
3. Rooms are allotted to each student on his/her personal responsibility. He/she shall be responsible for his belongings and maintenance of the room.
4. The boarders are refrained to carry unauthorized/illegal materials/weapons/movies and any other items objectionable under law, to hostel premises.
5. The boarder of a room is responsible for any damage to the institute property in their room during his/her stay. He/she shall be required to replace/repair the damage at his/her own cost.
6. In case of damage or loss of hostel property the cost will be recovered from the students responsible for such damage or loss, if identified, or from all the students of the wing/hostel, as decided by the hostel authority.
7. Ragging inside and outside the Institute are totally banned. Every single incidence of ragging will be dealt with hardship as per the direction of the Honourable Supreme Court of India.
8. Freshers are required to report the incidents of ragging immediately to their hostel superintendent.
9. When persons committing or abetting the incidence of ragging are not identified, a collective punishment on suspected group could be resorted as a deterrent measure.
10. In hostel premises, following activities are strictly prohibited –
 - Smoking
 - Consumption of alcoholic drinks/drugs.
 - Gambling
 - Intimidation or violence
 - Willful damage to property
 - Entering the hostel premises in intoxicated state.
 - Moving in the colony sector or near the Girls hostel premises after 7.00pm.
 - Shouting and using abusive language in their own hostel or in other hostel premises and campus.
 - Employing any persons for personal work such as washing clothes, etc.
 - Cooking in room.
 - Use of Electrical Appliances with high power consumption.
11. Room services are strictly prohibited. However, sick diet may be served in room after taking permission from Asst Superintendent.
12. The uses of audio systems and any act of inconvenience to other boarders are not allowed.
13. First year students must take permission from Superintendent for going out from the hostel for any reason and must make entry in the in-out register available with security guards at the hostel gate.
14. All residents of girls' hostels must be back in the hostel by 7.00 PM (6.00 PM for November to February). For any of the unavoidable situations; she must contact the superintendent for permission.

15. *No overnight guests are allowed in a student's room without permission of the Hostel Superintendent.*
16. *In boys' hostels, the parents of a boarder and other male guests may meet him in his room.*
17. *Male students/visitors are not allowed inside the girls' hostel.*
18. *Female visitors are not allowed in boys' hostels; however, lady family members may be allowed to visit a student in the visitors' room only.*
19. *Possession and use of motorised vehicle is not allowed.*
20. *Violation of any of the above may lead to disciplinary action as deemed to be applicable.*

RULES FOR THE HOSTEL (ROHINI BHAWAN/PRITHVI BHAWAN) IGIT, SARANG

The boarders of Ladies Hostel (Rohini Bhawan and Pritwi Bhawan) must follow the following rules and regulations.

1. *The boarders are advised to maintain discipline inside the hostel and outside of the hostel even while going to the institute on the way.*
2. *They are free to move inside the campus from 6.00 A.M. to 6.30 P.M. or upto sunset which ever is earlier. In summer the time may be enhanced extra half an hour i.e. from 6.00 A.M. to 7.00 P.M.*
3. *On emergency the boarders may be allowed to go outside after the schedule time with the special permission of the Superintendent/Asst. Superintendent in absence of Superintendent.*
4. *No boarders will meet the outsiders whose names are not recommended by their parents. But if they want to meet any boarder they can obtain permission from the Superintendent at first.*
5. *The boarders must sign the register kept in security post mentioning the time of departure and arrival for going outside the campus local market and return respectively.*
6. *Visitors must put their signature (full) with address in the Register also indicate the date and time to whom he/she will meet.*
7. *The boarders are not allowed to move in river bank/nearby forest with any boys of the Institute. No boarders should be seen talking with their friend (boys) outside the Hostel gate for more than 15 minutes. Any deviation in this regard if observed will be viewed very seriously with a fine amount of Rs. 100/-*
8. *They can visit the campus temple worship Lord Shiva but not allowed for gossiping with their any kinds of friends.*
9. *They must be well dressed while taking their lunch/dinner and keep discipline in dining hall.*
10. *They must obey and co-operate with the mess boys in dining hall.*
11. *Any difficulty if arises they should bring to the notice of the concerned Caretaker at first and then the hostel authority.*
12. *Sometimes it is found that some boarders are engaging in different seminar/departmental function etc. in the Institute beyond office hour. If they participate, they may be obtained permission from the Superintendent through their concerned H.O.D. henceforth.*

13. *Also, the rules of the hostel are to be changed time to time as and when required.*
14. *Distribution of responsibilities to the organising batch for all occasions should be followed.*
15. *Violation of any rules will be viewed seriously and necessary action will be taken as deemed fit as per bye-laws of hostel management of the Institute.*
16. *The 1st yr. students of the Rohini Bhawan are strictly not allowed to leave/enter the Hostel premises after 6.30 P.M. evening. They can only be allowed for such with their parents/local guardian.*
17. *Other boarders who do not come under this category are allowed to leave/enter the Hostel in odd hours only after filling up and producing the undertaking form before departure/arrival positively.*

30. STUDENTS' DISCIPLINE

1. *It is expected that the student during their stay in the Institute will inculcate practice discipline in all their activities. They will extend due courtesy & co-operation to all the employees of the institute in discharging their duties. They should have mild and moderate approach towards their institute mates & should so due regards to their teachers. On passing out also they will maintain the image of the institute where they have been graduated.*
2. *On the other hand disobedience of the institute & hostel rules restoring to indiscipline and bad conduct in any sphere of life in the institute misbehaviour to the steps and students damaging the institute and hostel properties adoption of unfair means in the class rooms, laboratories and examinations etc., shall be treated as a serious offence on the part of the student and disciplinary action depending on the intensity of misconduct will be taken against the student provide guilty.*
3. *The students once restricted, explained whose name is struck out the rules of the institute shall have to vacate the hostels immediately failing which the other lawful measure will be taken against them as decided by the institute admission.*
4. *Unauthorised & mass absence from classes (both theory and sessional) and examination (both State council and Institute) will be treated as indiscipline and action befitting to the situation will be taken. Students found persuading others for the above will also be treated as being indulge in the indisciplinary activities.*
5. *Unsatisfactory progress in the studies, default in payment of institute and can also be viewed as students indiscipline in case no satisfactory explanation is available to institute regarding the reason of such situation.*
6. *Possession or use of unauthorised drinks, narcotics or any prohibited material will lead to*
7. *Restriction of students found involve the matters shall be reported to the parents and the students will be immediately handed over to law and order authorities.*
8. *Duplicating the signatures of the institute authorities highly objectionable and if any student found involved in such activities will be dealt with severely.*
9. *The student when deputed for practical training should scrupulously abide by the rules and regulations of the organisation imparting the trainee. Each student has to complete a course of practical industrial training as approved by the institute.*

Any of the following acts of indiscipline will be viewed seriously.

- * *ILL treatment or disorderly behaviour to the staff of the institute or the fellow students.*
- * *Unsatisfactory progress in the studies.*
- * *Adoption of unfair means in the institute, university and state council examination.*
- * *Membership in the clubs and associations outside the institute or attending the Unauthorised meetings.*
- * *Inviting outside elements to the institute without permission of the institute authorities.*
- * *Unauthorised absence from the class examination and test.*
- * *Default in payment of institute/Hostel fees.*
- * *Attempt or persuading others to attempt towards boycott or postponement of examination and test.*
- * *Damage or tampering of properties and fittings in the institute/hostel, losses may be recovered from the individual; groups as fines in addition to other punishment.*
- * *Without the permission of the authority no student is permitted to contact the outside agencies like media (electronics & paper), Law and order authorities, administrative authorities etc., failing which stringent action may be taken.*

Students of the institute expected to maintain high degree of discipline in all their activities during their stay in the institute campus and also when they remain outside the institute. They should behave in such a way the good name of the institute is maintained although.

N.B.: The institute reserves all rights to modify/revise any or all the para/clauses of this prospectus as will be decided by the management of the institute.

31. STUDENTS' OBLIGATION

1. *Students are required to equip themselves with books, instrument box with other drawing material viz., the drafters, set squares, calculator or other stationary.*
2. *Railway concession is issued to the students for going home or to the training place and back only during vacation.*
3. *Students when admitted are issued with institute identity card which must be in possession while in the institute or outside and produce whenever demanded or required.*
4. *Photograph of students with blazer, tie and monogram of the institute should be submitted in the academic and Library section for issuing identity card and Library card respectively.*
5. *A bonafied student of the institute must keep his/her identity card with him/her whenever he/she is in the institute or campus of institute.*
6. *The student when deputed for practical training should scrupulously abide by the rules and regulations of the organisation imparting the trainee. Each student has to complete a course of practical industrial training as approved by the institute.*
 - * *Full Pants/Salwar/Dupatta*
 - * *Full Sleeve Shirts/Jumper*

**INDIRA GANDHI INSTITUTE OF TECHNOLOGY SARANG-759
146(ODISHA)**

32. HOLIDAYS LIST FOR THE CALENDAR YEAR -2019

Month	Date	Day	Description	No. of Days.
January	01-01-2019	Tuesday	New Years Day	01
	14-01-2019	Monday	Makar Sankranti	01
	23-01-2019	Wednesday	Netaji Jayanti	01
	26-01-2019	Saturday	Republic Day	01
March	04-03-2019	Monday	Maha Shiva Ratri	01
	05-03-2019	Tuesday	Panchayat Raj Day	01
	21-03-2019	Thursday	Dola Purnima	01
	22-03-2019	Friday	Holi	01
April	01-04-2019	Monday	Utkal Divas	01
	13-04-2019	Saturday	Shree Ram Navami	01
	19-04-2019	Friday	Good Friday	01
May	20-05-2019	Monday		34
	to		Summer Vacation	(29+05Sundays)
June	22-06-2019	Saturday		
July	04-07-2019	Thursday	Ratha Yatra	01
August	12-08-2019	Monday	Id-ul-Zuha	01
	15-08-2019	Thursday	Independence Day/Rakhi Purnima	01
	23-08-2019	Friday	Janmastami	01
September	02-09-2019	Monday	Ganesh Puja	01
	03-09-2019	Tuesday	Nuakhai	01
	10-09-2019	Tuesday	Maharam	01
	28-09-2019	Saturday	Mahalaya	01
October	02-10-2019	Wednesday	Gandhi Jayanti	01
	03-10-2019	Thursday		
	to		Puja Holidays	10
	12-10-2019	Saturday		
November	12-11-2019	Tuesday	Rasa Purnima	01
	20-11-2019	Wednesday	Rasapurnima	01

Odd Semester Activities	1st	3rd	5th	7th/9th
Induction Programme for 1 st B.Tech	13-08-2019 - 08-09-2019			
StartingDateofinstruction/Classes	09-09-2019	11-07-2019	11-07-2019	03-07-2019
Registration without fine	NA	11-07-2019 - 20-07-2019	11-07-2019 - 20-07-2019	03-07-2019 - 16-07-2019
Registration (Fine of `500/-)	NA	21-07-2019 - 29-07-2019	21-07-2019 - 29-07-2019	17-07-2019 - 23-07-2019
Registration (Fine of `1,000/-)	NA	30-07-2019 - 03-08-2019	30-07-2019 - 03-08-2019	24-07-2019 - 31-07-2019
Backlog Registration	NA		22-8-2019	14-08-2019 - 22-08-2019
Class Test - I	27-09-2019 - 01-10-2019	22-08-2019 - 31-08-2019	22-08-2019 - 31-08-2019	22-08-2019 - 31-08-2019
Display of Internal marks	16-10-2019 - 18-10-2019	09-09-2019 - 10-09-2019	09-09-2019 - 10-09-2019	04-09-2019 - 05-09-2019
Class Test - II	10-12-2019 - 12-12-2019	04-11-2019 - 09-11-2019	04-11-2019 - 09-11-2019	17-10-2019 - 27-10-2019
Display of Internal marks	20-12-2019 - 21-12-2019	11-11-2019 - 13-11-2019	11-11-2019 - 13-11-2019	01-11-2019 - 11-11-2019
Closing date of instruction	21-12-2019	13-11-2019	13-11-2019	06-11-2019
On-line sending of marks	23-12-2019 - 24-12-2019	23-12-2019 - 24-12-2019	23-12-2019 - 24-12-2019	01-11-2019 - 06-11-2019
End Semester Examinations	26-12-2019 - 07-01-2020	21-11-2019 - 14-12-2019	21-11-2019 - 14-12-2019	12-11-2019 - 02-12-2019
Students' Training	XXX	16-12-2019 - 21-12-2019	16-12-2019 - 21-12-2019	03-12-2019 - 08-12-2019
Semester Break				03-12-2019 - 08-12-2019
Sports Meet	18-01-2020 - 19-01-2020	18-01-2020 - 19-01-2020	18-01-2020 - 19-01-2020	18-01-2020 - 19-01-2020
Publication of Results	30-01-2020	30-01-2020	30-01-2020	10-01-2020
EVEN Semester Activities	2nd	4th	6th	8th/10th
Starting Date of instruction	16-01-2020	23-12-2019	23-12-2019	09-12-2019
Registration without fine	15-01-2020 - 20-01-2020	23-12-2019 - 04-01-2020	23-12-2019 - 04-01-2020	***
Registration (Fine of `500/-)	22-01-2020 - 28-01-2020	06-01-2020 - 13-01-2020	06-01-2020 - 13-01-2020	Will be as per the notification by BPUT
Registration (Fine of `1,000/-)	30-01-2020 - 07-02-2020	14-01-2020 - 20-01-2020	14-01-2020 - 20-01-2020	
Class Test - I	17-02-2020 - 22-02-2020	29-01-2020 - 06-02-2020	29-01-2020 - 06-02-2020	
Display of Internal marks	02-03-2020 - 03-03-2020	14-02-2020 - 15-02-2020	14-02-2020 - 15-02-2020	
Backlog Registration				

<i>Class Test - II</i>	<i>20-04-2020 - 24-04-2020</i>	<i>30-03-2020 - 04-04-2020</i>	<i>30-03-2020 - 04-04-2020</i>	
<i>Display of Internal marks</i>	<i>01-05-2020 - 02-05-2020</i>	<i>10-04-2020 - 11-04-2020</i>	<i>10-04-2020 - 11-04-2020</i>	
<i>On-line sending of marks</i>	<i>04-05-2020 - 05-05-2020</i>	<i>04-05-2020 - 05-05-2020</i>	<i>04-05-2020 - 05-05-2020</i>	
<i>Closing date of instruction</i>	<i>02-05-2020</i>	<i>15-04-2020</i>	<i>15-04-2020</i>	
<i>End Semester Examinations</i>	<i>06-05-2020 - 16-05-2020</i>	<i>20-04-2020 - 04-05-2020</i>	<i>20-04-2020 - 04-05-2020</i>	
<i>Students' Training</i>	<i>XXX</i>	<i>XXX</i>	<i>XXX</i>	
<i>Semester Break (for students)</i>				
<i>Publication of Results</i>	<i>19-06-2020</i>	<i>19-06-2020</i>	<i>19-06-2020</i>	
<i>Annual Function</i>	<i>10-04-2020</i>			

Sd/-

Director, IGIT, Sarang

STATE COUNCIL ACADEMIC CALENDAR FOR THE YEAR 2019-20

FOR DIPLOMA COURSE

Sl.No	Activity	1 st Semester	3 rd /5 th / 7 th (PT) Semester
1.	Internship for 2 nd /4 th 6 th sem. Appeared students		1.6.2019 to 29.6.2019
2.	Induction Programme for 1 st semester Diploma Course & Coverage of Bridge Course	05.08.2019 to 14.08.2019	
3.	Commencement of Semester Classes	16.08.2019	15.07.2019
4.	Readmission		Upto 15.07.2019
	Reporting Readmission Data to SCTEVT online		Upto 22.07.2019
5.	Issue of SCTE&VT Registration Numbers	15.09.2019	15.09.2019(3 rd sem LEstudents)
6.	Semester Exams Registration (Regular Students)	3 rd week of September 2019	3 rd week of September 2019
7.	1 st Internal Assesment for 5 th Sem.		3 rd week of August 2019
8.	2 nd Internal Assesment/Internal Test for 1 st & 3 rd Sem	4 th week of October 2019	3 rd week of Septeber 2019
9.	Puja Holidays	5.10.2019 to 12.10.2019	5.10.2019 to 12.10.2019
10.	Closing of Attendance	30.11.2019	31.10.2019
11.	Tentative Date of Semester Examination	10.12.2019 (1 st & 4 th (B))	15.11.2019 (3 rd , 5 th , 7 th , 2 nd (B) & 6 th (B))
Sl.No	Activity	2 nd Semester	4 th /6 th /8 th (PT) Semester
12.	Commencement of Classes	2.1.2020	2.12.2019
13.	X'Mas Holidays		25.12.2019 to 31.12.2019
14.	Readmission	Upto 16.1.2020	Upto 16.12.2019
15.	Reporting Readmission Data to SCTEVT online	Upto 24.1.2020	Upto 23.12.2019
16.	Semester Exams Registration (Regular Students)	1 st week of February 2020	1 st week of January 2020
17.	1 st Internal Assesment for 6 th Sem.		3 rd week of Jan. 2020
18.	2 nd Internal Assesment for 6 th sem./Internal Test for 2 nd /4 th Sem.	4 th week of Feb 2020	4 th week of Feb 2020
19.	Closing of Attendance	30.4.2020	31.3.2020
20.	Branch change of 2 nd sem. Students by Principals	31.3.2020	

21	Tentative Data of Semester Examination	7.5.2020 (2 nd & 3 rd (B))	10.4.2020 (4 th , 6 th , 8 th , 1 st (B) & 5 th (B))
22	Tentative Data of Publication of Results	31.7.2020	30.6.2020

NB: There shall be 39 periods of class per week and each of minimum 55 minutes duration for 1st/2nd/3rd

/4th/5th/6th/7th(PT)/8th(PT) semester.

Principals are required to arrange extra classes during Holidays and Off hours, whenever necessary, to complete the coverage of syllabus in time.

Annual Athletic Meet, Annual Cultural Meet may be conducted on suitable dates during Even Semesters.

The Internship Policy of AICTE is to be scrupulously followed and to be arranged by Institution.

Induction Programme for 1st semester students is to be implemented as per AICTE APH 2019-20

33. INSTITUTE WORKING HOURS

	From	To
Week Days	8.00 A.M.	12.10 Noon
	2.00 P.M.	4.30 P.M.
Saturday	8.00 A.M.	1.00 P.M.
From 1 st April till commencement of Summer Vacation	7.00 A.M.	12.30 P.M.
During Summer Vacation	7.30 A.M.	11.30 A.M.

34. IMPORTANT TELEPHONES

Sarang STD Code No.- 06768		
Telephone	Office	Residence
Director		9437211582 (M)
P.A. to Director	267003	9861237542(M)
	267086	
Dean (Aca/Exam)		9438856501 (M)
Dean (Students Welfare)		9437463700 (M)
Dean (FARC)		9861414967 (M)
Registrar	267115	9861110442 (M)
OIC ACA/EXAM		9937658405/9937418434 (M)
Accounts Officer	267133	8763936891 (M)
Medical Officer	211404	9668276526 (M)
H.O.D., Civil Engg.		9437184435(M)
H.O.D., Elect. Engg.		9437565799 (M)
H.O.D., Mech. Engg.	267126	9861190444 (M)
H.O.D., Comp. Sc. Engg. & Applns.	267112	9861414972 (M)
H.O.D., Chem. Engg.	267002	9437211582 (M)

H.O.D., Mett. & Material Engg.	267006	9861034812 (M)
Prof. Trg. & Placement	267137	9437166989(M)
Workshop Supdt.	267109	9861190444 (M)
Warden of Hostels		9438201029 (M)
Supdt. Bhaskar Bhawan		9437104166 (M)
Supdt. Aryabhata Bhawan West Block/East Block		9437332767 (M)
Supdt. Agni Bhawan		9937658405 (M)
Supdt. Rohini Bhawan		9439829975 (M)
Supdt Prithivi Bhawan		9337623862 (M)
Supdt. Akash Bhawan		8280295995 (M)
Supdt. Surya Bhawan		9439622794(M)
Supdt. Bromhos Bhawan		8763759620(M)
Estate Manager	211033	9861192635 (M)
Guest House		9861779470 (M)
FAX	267128	

35. Students Admitted in the year 2018-19:

First Year	UG_Second Year	UG_Third Year	UG_Final Year	PG_First Year	PG_Final Year	PH D	Total_UG	Total_PG	All_UG_and_PG_and_PhD
	612	511	574	NA	NA	NA	2284	NA	2284

36. Students Campus Placement:

Name of the Institute	Total Student (Nos.)	Total Placement (Nos.)	Percentage (%)
Indira Gandhi Institute of Technology, Sarang	574	171	29.79%

37. TEQIP Fund Utilization:

				Total :	29,791,902.00
<i>1.1 - Institutional development grants to institutes in focus States & Faculty reforms</i>	<i>1.1.1 - Procurement of goods</i>	<i>1.1.1.1 - Equipments</i>	<i>Indira Gandhi Institute of Technology, Sarang (Parjang), At/PO-I.G.I.T., Sarang, , Dist. Dhenkanal,</i>	4,297,931.00	
		<i>1.1.1.2 - Learning resources</i>	<i>Indira Gandhi Institute of Technology, Sarang (Parjang), At/PO-I.G.I.T., Sarang, , Dist. Dhenkanal,</i>	0.00	
		<i>1.1.1.3 - Furniture</i>	<i>Indira Gandhi Institute of Technology, Sarang (Parjang), At/PO-I.G.I.T., Sarang, , Dist. Dhenkanal,</i>	0.00	
		<i>1.1.1.4 - Minor civil works</i>	<i>Indira Gandhi Institute of Technology, Sarang (Parjang), At/PO-I.G.I.T., Sarang, , Dist. Dhenkanal,</i>	1,221,067.00	
	<i>1.1.2 - Academic processes</i>	<i>1.1.2.1 - Improve students' learning</i>	<i>Indira Gandhi Institute of Technology, Sarang (Parjang), At/PO-I.G.I.T., Sarang, , Dist. Dhenkanal,</i>	4,171,166.00	
		<i>1.1.2.10 - Services</i>	<i>Indira Gandhi Institute of Technology, Sarang (Parjang), At/PO-I.G.I.T., Sarang, , Dist. Dhenkanal,</i>	0.00	
		<i>1.1.2.11 - Industry-Institute Interaction</i>	<i>Indira Gandhi Institute of Technology, Sarang (Parjang), At/PO-I.G.I.T., Sarang, , Dist. Dhenkanal,</i>	0.00	
		<i>1.1.2.2 - Assistantships</i>	<i>Indira Gandhi Institute of Technology, Sarang (Parjang), At/PO-I.G.I.T., Sarang, , Dist. Dhenkanal</i>	16,697.00	
		<i>1.1.2.3 - Graduates employability</i>	<i>Indira Gandhi Institute of Technology, Sarang (Parjang), At/PO-I.G.I.T., Sarang, , Dist. Dhenkanal</i>	523,240.00	
		<i>1.1.2.4 - Faculty/staff development and motivation</i>	<i>Indira Gandhi Institute of Technology, Sarang (Parjang), At/PO-I.G.I.T., Sarang, , Dist. Dhenkanal,</i>	1,470,780.00	

	1.1.2.5 - Research and development	Indira Gandhi Institute of Technology, Sarang (Parjang), At/PO-I.G.I.T., Sarang, , Dist. Dhenkanal,	21,869.00
	1.1.2.6 - MOOCs and digital learning	Indira Gandhi Institute of Technology, Sarang (Parjang), At/PO-I.G.I.T., Sarang, , Dist. Dhenkanal,	0.00
	1.1.2.7 - Mentoring/Twinning system	Indira Gandhi Institute of Technology, Sarang (Parjang), At/PO-I.G.I.T., Sarang, , Dist. Dhenkanal,	13,879.00
	1.1.2.8 - Reforms and governance	Indira Gandhi Institute of Technology, Sarang (Parjang), At/PO-I.G.I.T., Sarang, , Dist. Dhenkanal,	619,437.00
	1.1.2.9 - Management capacity development	Indira Gandhi Institute of Technology, Sarang (Parjang), At/PO-I.G.I.T., Sarang, , Dist. Dhenkanal,	24,696.00
1.1.3 - Operating costs	1.1.3.1 - Consumables	Indira Gandhi Institute of Technology, Sarang (Parjang), At/PO-I.G.I.T., Sarang, , Dist. Dhenkanal,	0.00
	1.1.3.2 - Operation & maintenance of equipments	Indira Gandhi Institute of Technology, Sarang (Parjang), At/PO-I.G.I.T., Sarang, , Dist. Dhenkanal,	332,072.00
	1.1.3.3 - Office expenses	Indira Gandhi Institute of Technology, Sarang (Parjang), At/PO-I.G.I.T., Sarang, , Dist. Dhenkanal,	173,593.00
	1.1.3.4 - Meetings	Indira Gandhi Institute of Technology, Sarang (Parjang), At/PO-I.G.I.T., Sarang, , Dist. Dhenkanal,	140,121.00
	1.1.3.5 - Hiring of vehicles	Indira Gandhi Institute of Technology, Sarang (Parjang), At/PO-I.G.I.T., Sarang, , Dist. Dhenkanal,	0.00
	1.1.3.6 - Travel cost	Indira Gandhi Institute of Technology, Sarang (Parjang), At/PO-I.G.I.T., Sarang, , Dist. Dhenkanal,	145,810.00
	1.1.3.7 - Salary	Indira Gandhi Institute of Technology, Sarang (Parjang), At/PO-I.G.I.T., Sarang, , Dist. Dhenkanal,	153,360.00
1.1.4 - Faculty Reforms	1.1.4.1 - Salary (Quality Teachers)	Indira Gandhi Institute of Technology, Sarang (Parjang), At/PO-I.G.I.T., Sarang, , Dist. Dhenkanal,	16,466,184.00

