

INDIRA GANDHI INSTITUTE OF TECHNOLOGY



SARANG – 759146
DIST.– DHENKANAL (ODISHA)
Website : www.igitsarang.ac.in

**AN AUTONOMOUS INSTITUTE
OF
GOVERNMENT OF ODISHA**

CURRICULAR & GENERAL
INFORMATION 2011-12

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1. ABOUT THE INSTITUTE

Indira Gandhi Institute of Technology (IGIT), Sarang was established in the year of 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, 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 seven Under Graduate Engineering courses

in Civil, Chemical, Electrical, Mechanical, Metallurgical, Electronics & Telecommunication & Computer Science Engg., Master in Computer Application; & four Post Graduate Engg. courses in Industrial Power Control & Drives, Environmental Engg., Mechanical System Design, & Structural Engg. and besides five Diploma Courses in Civil, Electrical, Electronics & Telecommunication, Mechanical & Metallurgical Engineering. .

The Institute is fully residential with 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 infrastructure facilities like Central Library (with 27,000 volumes of books and 50 current periodicals / journals subscribed every year), Central Computer Centre, Central Workshop, Knowledge Centre, 8 nos. of student hostels having accommodation facility for 1000 students and other amenities such as SBI (Core Bank facilities), Guest house , Hospital, Post Office, Canteen, Students and Employees Co-operative Consumer stores, different clubs, Telephone Exchange, Mobile tower and Schooling up to High School level in its campus.

There are eight departments, well equipped with highly qualified faculties and adequately equipped laboratories. The research activities of the institute are comparable with any other leading institute of the State and the Country. The faculties 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. 15 nos. of Ph.DS have so far been produced in different departments. There is an ongoing collaborative research work on earthquake with Cambridge University, U.K. for which a base has been set up with modern equipments in the Institute. Every year, one or two National Conferences / Short term courses are organized in the institute in collaboration with IE / ISTE / AICTE. People across the country and outside also are in touch with our faculties in connection with technical research and consultancy. So far the institute has produced 1730 Engg. Graduates, 240 Postgraduates and 1550 Diploma holders. Almost all of them are properly placed. Quite a good nos. of our alumni are excelling in their field across the world.

Within a short span of two 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.

The serene atmosphere available 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 life, 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 students personalities by conducting regular cultural programmes, technical exercises, athletic, sport and 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., Satyam Computer, Kanbay, Wipro, Matas Sritech, Tari Harish, I-Flex Solution, Utkal Alumina, Visa Steel , Ananda Auto etc.

Internet facility is provided to the institute through V.sat and EDU-SAT.

WiFi connectivity is being provided to the Institute and all the hostels.

2. DIRECTOR AND OFFICIALS

DIRECTOR

- Dr. Antaryami Mishra
B. Sc. Engg. (Hons.) M.Sc. Engg.
Ph.D. (IIT, Kharagpur)
MIE, LMISTE, LMSBAOI

ADMINISTRATION

- Dean (Academic/Exam) - Dr. B.P. Panigrahi, Prof. Electrical Engg.
- Dean (Students' Welfare) - Dr. S. C. Pattnaik, Prof. Mett. Engg.
- Dean (SRIC) - Dr. S.K.Chand, Prof. Civil Engg.
- Warden of Hostels - Dr. R. K. Swain, Prof., Mechanical Engg.
- Professor, Trg. and Placement - Dr. Bidyapati Sarangi, Professor
- Registrar - Sri Bidhubhusan Mishra, M.A., B.Ed., MBA
- Deputy Registrar - Sri Sudhakar Rath, M.A., LL.B.
- Accounts Officer - Sri B. C. Mohapatra, B.A.
- P. A. to Director - Sri Tushar Kanti Rath, B.A.

LIBRARY

- Prof-in-Charge - Dr. S. K. Chand, Prof., Civil Engg.
- Librarian - Mrs. Bishnupriya Nayak

WORKSHOP

- Workshop Superintendent - Dr. B. D. Sahoo, Prof. Mech. Engg.

MAINTENANCE MANAGEMENT COMMITTEE

- Chairman - Dr. P. K. Pani, Prof. Civil Engg.
- Member - Sri R.K.Kar Asst. Prof. Civil Engg.
- Member - Dr L.N.Tripathy Asst. Prof. Engg Engg.
- Member - Sri B.B.Mishra, Registrar Engg.
- Member - Sri B. C. Mohapatra, Accts Officer
- E/M in-charge-Member-Convenor - Er. Nrusingh Pani, J.E.

DISPENSARY

Medical Officer - Dr. Damodar Das, M.B.B.S.
- Dr. (Mrs.) R. Mohanty, M.B.B.S. (Part time)

CENTRE FOR RURAL DEVELOPMENT

Co-ordinator - Dr. R.K.Swain, Prof. Mechanical Engg.

Community Development through
Polytechnic (CDTP)

HOSTEL

Bhaskar Bhawan

SUPERINTENDENT

Dr B.B.Choudhury

Asst. Prof. MechEngg.

Aryabhata Bhawan

Prof. R. S. Subudhi

Asst. Prof. Elect. Engg

Agni Bhawan

Sri P. K. Roy

Asst. Prof. Civil. Engg

Rohini Bhawan

Mrs. Ashima Rout

Sr. Lect., Etc. Engg.

Biswakarma Bhawan,

Akash Bhawan &

Prithivi Bhawan

Dr. Md.N.Khan

Asst.Prof Physics

Surya Bhawan

Prof. L. N. Tripathy

Asst. Prof. Electrical Engg.

ASST. SUPERINTENDENT

Sri Sujit Ku Pradhan

Lect. Civil Engg.

Sri Bhagirathi Tripathy

Lect. Civil Engg.

Sri J. Rout

Lect. Etc. Engg.

Ms. Jayashree Nayak

Lect . in Mech . Engg.

Ms. Supriya Sahu

Lect in Mech Engg.

Sri D.K.Swain

Lect. MCA

Sri Umakanta Mohanta

Lect. Elect. Engg.

Sri S.K.Patra,Lect MCA

CULTURAL ASSOCIATION

President

- Dr. A. Mishra, Director

Co-ordinator

- Dr. Moheswar Moharana,Prof. Civil

Vice- President

- Dr. Dr D.Dhupal,Asst.Prof.Mech.

Co-Vice President

- Sri D. J. Mishra, Lect. Elect. Engg.

Miss Supriya Sahoo, Lect. Mech.

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

President

- Dr. A. Mishra, Director

Advisor

- Dr. B.C.Panda,Prof. Civil Engg.

Vice-President

- Dr. G.K.Puthal,Asst. Prof. Civil Engg.

Co-Vice President

- Mrs. Ashima Rout, Sr. Lect. Etc. Engg.

Physical Training Officer

- Dr. A. K. Rath

ALUMNI ASSOCIATION

President

- Dr. A. Mishra, Director

Co-ordinator

- Dr.P.K.Roy, Astt. . Prof. Elect. Engg.

Secretary

- Sri Sandeep Sahoo,Lect. Mett.Engg.

Website of Alumni Association

- www.igitalumni.org

AUDIO-VISUAL CLUB

President

- Dr. A. Mishra, Director

Vice-President

- Dr. P. Das, Asst. Prof. Math.

Co. Vice-President

- Mrs. Jayashree Nayak, Lect. Mech.

S.S.G.

President

- Dr. A. Mishra, Director

Vice-President

NATIONAL SOCIAL SERVICE

Programme Officer

INSTITUTION OF ENGINEERS (INDIA)

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

ISTE CHAPTER

Secretary Faculty Chapter and
Faculty Advisor, IGIT Students Chapter

BOOK BANK

Officer-in-Charge

TIME TABLE

Co-Ordinator

CENTRE SUPERINTENDENT

University Exams. (UG & PG)
Council Exams. (Diploma)

ASSTT CENTRE supdts

University Exam(UG/PG)
Council Examinations(Diploma)

NCC

Officer in-charge

HEALTH CLUB(Gymnasim)

Officer in-charge
Asst. Officer in-charge

TEACHERS' COUNCIL

Secretary

DATA CENTRE

Website : Manager

Internet Administrator & Co-ordinator
Engg.
Knowledge Centre

Co-Ordinator, Roboites

EDUSAT CENTRE

Prof. In-Charge

Robotics Club-

- Dr. Md. N. Khan, Asst. Prof. Physics

- Prof. M. Srinivas, Lect(SG) CSE

Sri Sandeep Sahoo, Lect. Mech.

- Mrs U.Bhanja, Asst.Prof. EWTC Engg.

- Sri Rabindra Ku Behera,Lect. Elect. Engg.

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

- Dr. P Dash,Asst.Prof. Mathematics

- Dr. G.K.Pothal, Asst. Prof. Civil

- Dr. G.Panda, Asst.Prof.Elect Engg.

- Mrs Dipa Das,Lect Chemical

- Sri K.D.Sa,Lect. ETC Engg.

- Sri M. Behera, Sr Lect. Elect

- Dr. B.C.Panda, Prof. Civil Engg.

- Dr. A. K. Rath. P.T.O.

- Dr. P. Das, Asst. Prof. Math

- Sri S. Sethi, Sr. Lect. CSE

Sri C.R.Dash,Lect Math

- Dr. S. N. Mishra, Prof. & Head, Comp. Sc.

- Sri Priyabrata Sahu, Lect. CSA

Sri S.K.Patra,Lect. CSA

Sri S. K. Mansingh, TA

- Mrs. Ashima Rout, Sr. Lect. Etc. Engg.

- Sri S.K.Patra,Lect CSEA.

Sri Jagadish Sahoo, T.A. CSE

- Mrs. Ashima Rout, Sr. Lect. ETC

3. COURSES OFFERED

1. 4 years Bachelor of Technology Courses :

- (i) Chemical Engineering
- (ii) Civil Engineering
- (iii) Electrical Engineering
- (iv) Mechanical Engineering
- (v) Metallurgical and Materials Engineering
- (vi) Computer Science Engineering (Under self finance scheme)
- (vii) Electronics & Telecom. Engineering (Under self finance scheme)

2. 3 years Master in Computer Application (M.C.A.) Course

3. M. Tech Courses :

Regular 02 years (4 Semesters) Course :

Mechanical Engg. - “Mechanical System Design”

Civil Engg. - Structural Engineering

Part time (2 & 1/2) years (5 Semesters) courses :

- i) Civil Engineering in - 1. “ Environmental Science & Engineering”
- ii) Electrical Engineering in - “ Industrial Power Control and Drives”

4. 3 years Diploma Engineering Courses :

- (i) Civil Engineering
- (ii) Electrical Engineering
- (iii) Electronics & Telecommunication Engineering
- (iv) Mechanical Engineering
- (v) Metallurgical Engineering

Affiliation : i) All B. Tech/MCA & M. Tech Courses to Biju Patnaik University of Technology, Rourkela

ii) All Diploma Courses to : State Council for Technical Education & Vocational Training, Orissa, Bhubaneswar

4. DEPARTMENT OF CHEMICAL ENGINEERING

A. Faculty Members

Name and Qualification

- 1. Dr. B. Sarangi
Head of Deptt I/C

Field of Specialisation

Kinetics, Process metallurgy

ASST. PROFESSOR :

- 1. Mr. S. B. Mohanta

Process Engg. & Design

B.E., M. Tech (IIT-D)
(on study Leave)

LECTURER

- | | | |
|----|---|-------------------------------|
| 2. | Mrs. Dipa Das
B. Tech., M. Tech (NIT, RKL) | Coal Chemicals and Fertilizer |
| 3. | Mrs. Ipsita D. Behera
B. Tech., M. Tech (NIT, RKL) | Biotechnology |

LECTURERS (CONSOLIDATED) :

1. Miss Brahmotri Sahoo
B.E. (Utkal)
2. Mrs. C. S. Rao
3. Miss M. Lenka

B. Laboratory Facilities :

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

1. Chemical Technology Lab.
2. Chemical Reaction Engineering Lab.
3. Fuel Testing Lab.
4. Heat Transfer Lab.
5. Fluid flow Lab.
6. Mass Transfer Lab.
7. Instrumentation & Process control Lab.
8. Computer Application Lab.

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. Scope of Chemical Engineering

The Chemical Engineering graduates have bright scope of employment in Fertilizer, Petrochemicals, Cement, Metallurgical, Paper, 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.

D. Research Activity :

The following research activities are presently going on and a good number of papers in the following area are published, in National and International Journals.

1. Coal Washing.
2. Fluidization.

3. Simulation & Modeling.
4. Waste water treatment.

E. Project and consultancy :

The department offers consultancy service to the near by industries.

5. DEPARTMENT OF CIVIL ENGINEERING

A. Faculty Members

Name and Qualification

Field of Specialisation

PROFESSORS :

- | | |
|--|-----------------------------|
| 1. Dr. Jagannath Prasad Behera,
B. Sc. Engg. (Hons) M.Sc. Engg (SU) Ph.D. | Structural Engineering |
| 2. Dr. Sudeep Kumar Chand
Head of the Department
B.Sc.Engg.,M. Sc. Engg. (SU),
Ph. D. (IIT, KGP), MISTE | Geotechnical Engineering |
| 3. Dr. Manoj Kumar Dash
B. Sc. Engg. (SU), M.Tech.,
Ph. D. (IIT, KGP), MISTE | Structural Engineering |
| 4. Dr. Bikash Chandra Panda
B. Sc.(Hons.), M.Sc.Engg.(SU), Ph.D.(IIT, KGP)
MISTE, M.Sc. Engg.(SU) Ph.D. | Structural Engineering |
| 5. Dr. Maheswar Maharana
B. Sc.(Hons), C. Engg.(Civil),
M.Sc.Engg.(SU), MIE (India) | Geotechnical Engineering |
| 6. Dr. Pratap Kumar Pani
B. Sc. Engg. & M.Sc. Engg.(SU)
Ph.D. (IIT, Kharagpur), MISTE | Structural Engineering, |
| 7. Dr. Tushar K. Nath
B.Sc. Engg. (Hons) Utkal
M.Tech., Ph.D. (IIT, Kharagpur)MISTE | Water Resources Engineering |

ASST. PROFESSORS :

- | | |
|--|---------------------------|
| 8. Sri Chittaranjan Sahoo
B.E. Engg. (Hons) Utkal, M.Tech. (IIT, Kgp)
MISTE, MIE, C. Engg. (India) | Environmental Engineering |
| 9. Sri Rabindra Kumar Kar
B.Sc.(Engg.), &, M.Sc.Engg. (S.U)
MISTE, MIRC, MIE, C. Engg. (India) | Transportation Engg. |
| 10. Dr. Goutam Kumar Pothal
B.Tech. (OUAT), M. E. (SU)
Ph. D. (IIT, Delhi), MISTE | Geotechnical Engineering |

LECTURER

- | | |
|---|---------------------------------|
| 11. Mr. Suraj Kumar Sahu
B.E. (Utkal) M. Tech. | Structural Engineering |
| 12. Mr. Bhagirathi Tripathy
B.E. (Utkal), M. Tech. | Construction Tech. & Management |
| 13. Miss Priyadarshini Das | |
| 14. Sri Aditya Kumar Bhoi | |
| 15. Sri Sujit Kumar Pradhan | |

B. Laboratory Facilities :

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

- (i) Environmental Engineering Laboratory
- (ii) Geology Laboratory
- (iii) Geotechnical Engineering Laboratory
- (iv) Hydraulic Engineering Laboratory
- (v) Structural Engineering Laboratory
- (vi) Transportation Engineering Laboratory
- (vii) Departmental Computer Centre.

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 faculties are carrying out research in some frontier areas of Civil Engg. as listed below :

1. Earthquake resistant design and construction practices.
Advanced Structural materials.
2. Fluid Structure interaction.
3. Waste utilisation in construction.
4. Pavement Materials.
5. Structural Dynamics
6. Geotechnical applications of flyash.
7. Stabilisation of expansive soils.
8. Air Pollution

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 faculties. 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 Engumeering and 2½ years 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.

6. INDIRA GANDHI INSTITUTE OF TECHNOLOGY, SARANG **DEPARTMENT OF ELECTRICAL ENGG.**

A. Faculty Members :

<u>Sl.No.</u>	<u>Name and Qualification</u>	<u>Field of Specialization</u>
Professor and Head		
1.	Dr. Bibhu Prasad Panigrahi, B.Sc.Engg. (Hons.)(SU), M.Tech (IIT Bombay), Ph.D.(IIT Kharagpur), LMISTE, MIE, LMSSI, LMOBA	Electrical Machines, Machine Drives, Power Electronics, Power Systems
Assistant Professors		
2.	Sri Pravat Kumar Ray BE (UU), ME (Bengal Engg College), Ph.D. continuing	Advanced Signal Processing and Application of System Identification Techniques to Power System
3.	Sri Lokanath Tripathy BE (UU), M.Tech (IISc Bangalore), Ph.D. continuing	Power System Engineering, Modern Protection, HVDC, FACTS
4.	Dr. Gayadhar Panda AMIE, M.Tech (Bengal Engg. College),	Power System Engioneering Power Electronics and Drives.

Ph.D. (UU)

Lecturers (Selection Grade)

- | | | |
|----|---|--|
| 5. | Sri Rabi Shankar Subudhi
B.Sc. Engg.(SU), M.Tech. (IIT Kharagpur),
Ph.D.(IIT Kanpur) continuing, MISTE | DSP and Communication Engineering |
| 6. | Mrs. Pranati Das, B.Sc. Engg.(Hons.)
(SU), M.Tech.(IIT Kharagpur)
Ph.D. (IIT Kharagpur) continuing, MISTE | Signal Processing and Image Processing |

Lecturers

- | | | |
|-----|--|----------------------------|
| 7. | Sri Maheswar Prasad Behera
BE (UU), ME (SU) | Power System Engineering |
| 8. | Sri Bidyadhar Biswal
AMIE, ME (SU), Ph.D. continuing | Power System Stability |
| 9. | Sri Rabindra Behera, BE(UU), M.Tech.(BPUT)
Ph.D. continuing, LMISTE | Power System Engineering |
| 10. | Sri Umakanta Mahanta
BE(UU), M.Tech.(Jadavpur University) | High Voltage Engineering |
| 11. | Sri Brijesh Kumar, BE(UU), M.Tech | Power Electronics & Drives |

Lecturers (Guest)

- | | | |
|-----|---|--------------------|
| 12. | Ms. Sinurani Samal
B.Tech (BPUT) (Guest) | Electrical Machine |
|-----|---|--------------------|

B. LABORATORY FACILITIES :

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

<u>Sl. No.</u>	<u>Laboratories</u>
1.	Energy Conversion Laboratory (Electrical Machines Lab.)
2.	Instrumentation & Control Laboratory
3.	Analog Electronics Laboratory
4.	Microprocessor and Digital Electronics Laboratory
5.	Power Electronics & Drives Laboratory
6.	Robotics & Artificial Intelligence Laboratory
7.	Electrical Workshop
8.	Power System Simulation Laboratory
9.	PC Laboratory.
10.	Basic Electrinics Engineering Laboratory
11.	Network Devices Laboratory
12.	Basic Electrical 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 :

- 1) Modernisation of Electrical Engg. Laboratory (1989)
- 2) Microprocessor Application Laboratory (1991)
- 3) Modernisation of Microprocessor and Digital Electronics Laboratory (1992)

- 4) Strengthening of facilities in Instrumentation (1992)
- 5) Strengthening of facilities in Comp. Science & Technology (1992)
- 6) Modernisation of Computer Centre (1992)
- 7) Modernisation of Elect. Engg. Laboratory (1992)
- 8) Thrust Area Project on Control System including Computerised Control in Industry (1995)
- 9) Modernisation of Elect. Engg. Laboratories (1999)
- 10) AICTE Research Project on AI & Robotics (2000)
- 11) AICTE Research Project on Design of Controllers for flexible Robots (2004)
- 12) AICTE Research Project on Development of DTC based low cost anlog torque controller for low power induction motor drives used in small scale industries.(2008)

D. RESEARCH ACTIVITIES :

Research and Development play a crucial role in the development of improved products and processes to related to electrical utilities and industries. The Department has created a culture of its with implementable outcome.

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 :

1. Non Linear Control Engineering.
2. Power System Dynamics.
3. Image Processing
4. Energy Conservation.
5. Machines & Drives
6. Robotics
7. Intelligent Control
8. Renewable Energy

E. SCOPE OF ELECTRICAL ENGINEERING :

Electrical Engineering formulates the basis 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 Engg. with new concept of development to meet the National needs in the context of globalised economy today.

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

Interested students can go for P.G. specification in advance subjects like Power System, Electrical Machines & Drives, High Voltage Engineering, System Automation, Energy Engineering etc. and other inter disciplinary courses like VLSI, Robotics, Computer Science, Biomedical Engg. etc. The student of Electrical Engg. can settle up for challenging careers in the public sectors like SAIL, BHEL, NTPC, PGCL, 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 Engg. 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 Undergraduate course in Electrical and electronics have been thoroughly revised.

The faculty members of the Dept. supervise Ph.D. Students in the research areas such as Power Electronics Control System and Power System etc.

The Electrical Engg. Dept. 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 commitment, and students with blooming talent and preservice.

The Department has started offering a regular 4 semester M. Tech. Course in Industrial Power from the current session. It has set up a mini library equipped with good number of text and reference books in the subject of Electrical Engg. and associated areas.

INDIRA GANDHI INSTITUTE OF TECHNOLOGY, SARANG
DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING

A. Faculty Members :

Sl.No.	Name and Qualification	Field of Specialization
Lecturers (Selection Grade)		
1.	Mrs. Urmila Bhanja B.Sc. Engg.(Madras),M.Tech.(IIT Kharagpur) Ph.D. (IIT Kharagpur) submitted MISTE	Optical communication, Optical & Wireless Networking Soft Computing,Optimization Techniques.
Senior Lecturers		
2.	Mrs. Ashima Rout BE(UU), M.Tech.(Jadavpur University) Ph.D. continuing, MISTE	Comminucation Engineering and Networking
3..	Sri Debajyoti Mishra B.Sc. Engg.(SU), M.E.(NIT, RKL)	Electronics Communication Systems
Lecturers		
4..	Sri Janmejaya Rout BE(UU), M.Tech. (IIT, Guwahati) LMISTE	Signal Processing
5.	Sri Kodandadhar Sa, B.Tech (BPUT), M.Tech.(Jadavpur University)	Instrumentation and Electronics
Lecturers (Self Finance Scheme)		
6.	Ms. Pikoo Priyadarshini B.Tech.(BPUT) (SF)	Analog Electronics, Digital Electronics
7..	Sri Prasant Kumar Sahoo BE (UU) (SF)	Electronics & Communication
8.	Ms. Srabani Mohapatra, B.Tech (BPUT), M.Tech.(NIT,RKL)	Communication Engineering
9.	Miss Sibani Das,B.Tech(BPUT)	Elect. & ETC Engg.
10.	Mr Goutam Mohanty M.Tech(Tezpur Central Univ)	Biomedical Imaging & Instrumentation

7. DEPARTMENT OF MECHANICAL ENGINEERING

A. FACULTY MEMBERS :

Name and Qualification

Field of Specialisation

PROFESSORS :

1. Dr. A. Mishra, B.Sc. Engg.(Hons)
M.Sc. Engg. (SU), Ph.D. (IIT, Kgp)
M.I.E.(India), MISTE, LMSBAOI
Machine Design, Composite Materials,
Biomedical Engg., Finite Element
Methods, Entrepreneurship.
2. Dr. B. B. Maharathi, B.Sc. (Hons),
M. Tech. (I.O.) (S.U.), Ph.D. (S.U.)
MISTE (India)
(Deputation to OSME, Keonjhar as Principal)
Machine Design, Structural Vibrations
Rotor Dynamics.
3. Dr B.D.Sahoo, B.ScEngg.(S.U)
M.Sc.Engg.(S.U),Ph.D(IIT,Kgp)
MIE(India)LMISTE
(Head of the Department)
Production Engg.,Metal forming
Machining,Diamond Coated Tools
- Head of the Department**
4. Dr. S.K. Senapati, B.Sc. Engg.,
M.Tech (IIT, Delhi) Ph. D., (J.U.)
MISTE, MIE (India)
Applied Mechanics & Bio-Medical
Engineering.
5. Dr. R.K. Swain, B.Sc. (Engg.)
M.Tech.(IIT, Delhi), Ph.D. (IIT, Delhi)
MSAE, MISTE, LMOBA
Energy Studies, Alternative
Fuels for I.C. Engines

ASST. PROFESSORS

6. Dr. B.B. Choudhury, B.E.(BAMU)
M.E(VSSUT),Ph.D(NIT,RKL)
Prod.Engg., CAD/CAM
FMS,Robotics
7. Dr. Debabrata Dhupal,B.E(U.U)
M.E.(J.U),Ph.D(J.U)
Prod. Engg., Micromachining
AMS,Non Conventional Machining

Sr LECTURERS :

8. Sri D. K. Behera, B. E(NIT,Nagpur)
M.E(S.U),(Deputed for Ph.D)
Production Engineering
9. Sri T. Rout, B.E(U.C.E.,Burla)
M.E.(J.U) Ph.D Continuing at NIT,RKL)
Machine Design.
10. Sri P. R. Dhal, B. Tech., (C.E.T.,OUAT)
M.E(SU)Ph.D (Cont. at NIT,RKL)
Production Engineering

LECTURERS;

11. Miss Jayashree Nayak, B.E.(VSSUT)
M.Tech.(Cont. at NIT,RKL)
Thermal Engineering
12. Ms. Supriya Sahu, B.Tech(BPUT).
M.Tech(Cont. at NIT,RKL)
Production Engineering
13. Dr N.C. Nayak,B.E.(U.U)
M.Tech(IIT,Kgp),Ph.D(IIT,Kgp)
Operation Management
14. Mrs B.Singh,B.Tech(KIIT,D.U)
M.Tech.(NIT,RKL)
Thermal Engineering
14. Mr Rabinarayan Sethi, B.E.(U.U)
M.Tech(Cont. BPUT)
M.B.A.(Marketing B.U),MISTE(India)
Mechanical System Design

LECTURER (GL)

15. Mrs. Sunita Panda, B.E., (KIIT,BBSR) Thermal Engineering
M.Tech(CV Raman,BBSR)
16. Miss Smaranika Rout, B.E.(BPUT)
17. Sri Sanatana Kata, B.E.(BPUT)

B. LABORATORY FACILITIES :

The following well equipped laboratories are available.

- (i) Applied Mechanics.
- (ii) Automobile Engineering.
- (iii) Bio-Medical Engineering.
- (iv) CAD / CAM.
- (v) Composite Material.
- (vi) Finite Element Application.
- (vii) Hydraulic Machines.
- (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. 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.

Sl.No.	Title of the Project	Duration (Years)	Amount (Rs.)
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
7.	Modernization of Mechanical Engg. Lab.	2008-09	15 Lakhs

Consultancy and testing service are being extended to nearby industries such as CMPDI,

GAMMON INDIA, MCL and NTPC etc.

D. R & D PROJECTS

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

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

E. 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, LBM

The department also offers scope to its faculty members 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). Two have been awarded Ph.D. under Utkal University.

Every year, the faculty members publish a number of research papers in journals of International and National repute.

F. 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) 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 pursue 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 bent 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”. Two more fields of specialization namely “Production Engg.” & “Thermal Engg.” are likely to be introduced shortly to the M.Tech Programme.

8. DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING

A. FACULTY MEMBERS

Name and Qualification

Field of Specialization

PROFESSOR :

- | | |
|--|---|
| 1. Dr. S.C. Patnaik
B.E., M.Tech(IIT, Kgp)
Ph.D. (IIT, Kgp)
(Head of the Department) | Physical Metallurgy
Power Metallurgy |
|--|---|

LECTURER :

- | | |
|---|------------------------------------|
| 2. Mr. P. K. Mallik
B.E., (U.U), M.Tech(IIT, Kanpur)
(On Study Leave) | Ceramics Materials,
Composites |
| 3. Ms. Swarnalata Behera
B.E.(U.U),M.Tech(IIT, Roorkee) | Industrial Metallurgy
Corrosion |
| 4. Ms. Sandeep Kumar Sahoo
B.E.(UU) | Ferrous Extractive Metallurgy |

LECTURERS (Consolidated) :

5. Ms. Subhadra Sahoo, B.Tech(BPUT)
6. Ms Jamuna Sethi, B.Tech(BPUT)

B. LABORATORY FACILITIES :

The following well equipped laboratories are available in the department.

1. Physical Metallurgy Laboratory
2. Heat Treatment Laboratory
3. Mineral Dressing Laboratory
4. Foundry Engineering Laboratory
5. Materials Testing Laboratory
6. Metallurgical Analysis Laboratory
7. Fuel Testing Laboratory
8. Computer Laboratory

C. PROJECT AND CONSULTANCY :

With financial assistance received from World Bank, the department has successfully set up the above laboratories with modern and sophisticated equipments.

The department has set up an Advanced Materials Processing and Characterisation Laboratory with grants from AICTE under the MODROB Scheme in 2002-03.

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. RESEARCH ACTIVITIES :

In the Department of Metallurgical and Materials Engineering, research work is being carried out in the areas of kinetics of metallurgical processes like sponge iron production, processing of advanced materials, development of ceramic cutting tools and structure and deformation studies of aluminium based alloys and composite materials.

E. SCOPE :

Metallurgy concerns with processing of metallic ores yielding different materials. The metals are alloyed with other metals and ingredients and then processed and fabricated so that the resulting materials have required special characteristics. During the last few decades, such development has found wide application in space technology, nuclear technology, super conductivity and high temperature technology. The materials technology has itself emerged as a special discipline.

The industries nearby such as **NALCO, NABHACHROME, BHUSAN STEELS, IPISTEEL, IPITATA, NINL, JINDAL, BINDAL**, 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, nuclear and research establishments and space research organizations.

9. DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

A. FACULTY MEMBERS :

Faculty Members and qualification

PROF. & HEAD

1. Dr. Sarojananda Mishra

Fractals and Graphics, System Dynamics,

MCA(S.U.), M. Tech (IIT.Delhi)
Ph.D.(UU), LMISTE, AMAIMA

MIS, Operation Research, Networking
Computer Programming, Compiler Design,
Theory of Computation, Simulation modeling

ASST. PROF / LECTURERS (SELECTION GRADE)

- | | |
|---|--|
| 2. Sri M. Srinivas
MCA (SU), M.E.(SU) LMISTE | Artificial Intelligence, NLP, OOPS
Software Engineering, JAVA |
| 3. Mrs. Sasmita Mishra
MCA (SU), M.E.(SU) LMISTE | Data Structure, Programming, Language,
RDBMS, Operating Systemas, Graphics
AI, Database, DAA |

SR. LECTURERES

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|-----------------------------------|--|
| 4. Sri Srinivas Sethi, MCA (B.U.) | RDBMS, Data Structure, Mobile Computing,
Adhoc Network, Programming |
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LECTURERS

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|--|--|
| 5. Sri Priyabrata Sahu
MCA, M.Tech. | RDBMS, Operating system, Graphics
Networking, Computer Architecture |
| 6. Sri Sanjaya Ku. Patra
MCA, M. Tech | Data Structure, Programming
Language, RDBMSDAA, JAVA |
| 7. Sri Dillip Ku. Swain, MCA, M.Tech. | Computational theory, AI, Networking
DS |

LECTURERS (Under Self Financing Scheme) :

- | | |
|---|---|
| 8. Mrs. Sasmita Mohapatra, B.E., M.E. | Programming Language, MALP, RDBMS, SP |
| 9. Sri C. R. Dash, M.Sc., M.Phil (Math) | Discrete Mathematics, Numerical Methods |
| 10. Mr Sangram K. Nayak | JAVA, Programming, Data Structure |
| 11. Mr Sushanta K Sahoo, | Database Programming |
| 12. Mrs Sangeeta Pal | Computer Security, Data Structure. |

B. COMPUTING FACILITIES :

COMPUTATIONAL LABORATORY :

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

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.

PC APPLICATION LABORATORY :

Computing facility available here are one HP-9000/712 workstation under HP-UX, HP Plotter and software like STAR BASE and C.

MICRO PROCESSOR LABORATORY :

This laboratory is well equipped with 8085 and 8086 micro processor kits and other interfacing cards.

PERIPHERALS :

HP scanjet 5100 scanner, External CD writer (HP), Modem 33.6 KBPS, HP 695c, Desjet Printer, HP Desjet-1600 C Printer, HP Desjet-500 printer, HP Laserjet 6L Laser printer, Panasonic KX P2624 DMP, FUJITSU DL 2000 Printer, NEC Printer, Wipro LQ-1050 Printer.

INTERNET :

Internet facility is provided to the institute through. and EDUSAT & WiFi System.

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.

C. RECENT PROJECTS UNDERTAKEN

1. AICTE-MODROB Project for Modernisation of Computer Centre (1998)
2. AICTE MODROB Project - 2004.

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 modeling and database design. Some of the faculty members have completed their Ph. D. work in this deptt.

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.

10. DEPARTMENT OF HUMANITIES AND BASIC SCIENCE

Name of the Faculty members with qualification and designation.

Specialisation

PHYSICS

- | | |
|--|--|
| 1. Sri C.S. Mohapatra
M.Sc. M. Phil., Asst. Prof. & Co-ordinator, Physics | Solid state Physics, Aerasol Physics
Small angle X-Ray scattering |
| 2. Dr. M.D. Khan
M.Sc., Ph.D.(S.U.), Asst. Prof. in Physics | Small angle X-Ray scattering |
| 3. Dr. A. K. Pattanaik
M.Sc., M. Phill | |

CHEMISTRY

- | | |
|--|---|
| 4. Dr. B.K. Mishra
M.Sc., M.Phil., Ph.D.(U.U.)
Prof. & Co-ordinator, Chemistry | Organic Chemistry
Polymer Science |
| 5. Dr. S. K. Biswal
M.Sc. M. Phil., Ph.D. (S.U.), Professor. | Organic Synthetics
Environmental Science |
| 6. Miss Allian Majhi, M.Sc.(Utkal)(Guest Lect) | |

MATHEMATICS

- | | |
|--|---------------------------------------|
| 6. Dr. (Mrs.) S. Mohanty,
M.Phil (SU), Ph.D. (UU), Professor. | Functional Analysis, Optimization |
| 7. Dr. N. K. Chaudhury
M.Sc., M.Phil. Ph.D (UU) | Fluid Mechanics
Numerical Analysis |

- | | | |
|-----|---|---------------------------------|
| 8. | Professor & Co-ordinator, Mathematics
Mrs. N. Mishra, M. Sc., M.Phil.
Lecturer (S.G.) | Graph Theory
Fluid Mechanics |
| 9. | Dr. Pitambar Das, M.Sc., Ph.D.
Asst. Prof. | Differential Equation |
| 10. | Dr. C. R. Dash
Lecturer M.Sc., M.Phil., Ph.D. | Differential Equation |

ENGLISH

11. Dr.(Mrs.) N. Padhi, M.A., M.Phil., Ph.D., Professor
12. Sri Debi Prasad Pany, M. Phil, Guest Lecturer

ECONOMICS

13. Dr. S. N. Pradhan, M.A., M.Phil., Ph.D., Professor.
14. Sri Sankar Moharana, M.Com. PGGCFM, ICWA/FNTCE

ACTIVE RESEARCH WORK IS BEING CARRIED IN THE FOLLOWING FIELDS :

- | | | | |
|----|-------------|---|---|
| 1. | Physics | : | Aerosol Science |
| 2. | Chemistry | : | Polymer Science and Environmental Science |
| 3. | Mathematics | : | Fluid Dynamics, Numerical Analysis
Differential Equation |

11. DEPARTMENT OF TRAINING & PLACEMENT

- | | | |
|----|--|---------------------------------|
| 1. | Dr. B. Sarangi
M.Sc (NIT, Rkl), Ph.D (S.U.) | Professor, Training & Placement |
|----|--|---------------------------------|

Every year, the department arranges

- Local Industrial Tours.
- Industrial Tours outside Orissa.
- Vocational training of B.Tech. students.
- Apprentice Training.
- 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.

12. WORKSHOP

- | | |
|-------------------------|--|
| Workshop Superintendent | Dr. B. D. Sahoo
B.Sc. Engg (Mech.), M.Sc. Engg (S.U.)
Ph.D, IIT, Kharagpur, LMISTE, MIE
Field of Specialization : Metal forming, Machining, Diamond Coated Tools. |
| Foreman In-Charge | Sri. P. Behera
T.A. Mech. Engg. |

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 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.

13. LIBRARY

LIBRARY FOR B. TECH AND MCA :

The Institute library has a valuable collection of about 30,000 text & reference books, Hand books I.S. codes. About 50 nos of journals are being subscribed to Institute Library.

The library remains open from 9.00 A.M. to 8.00 P.M. with one hour lunch break i.e. from 1.00 PM to 2.00 PM on all working days except on Saturday Saturday timing is from 9 AM to 1.00 PM. On Sunday and other public holidays it is closed.

All the library transactions work are being done computer as it is a automated library. Bonafide users of the institute library are :

- a) All teachers of institute
- b) All bonafide students of the institute
- c) All other employees of the institute

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 maximum of two books. However a final year, B.Tech., pre-final M.C.A. students may be allowed to borrow one additional book (i.e. three books at any time).
3. All student borrowers may be permitted to retain books by them for a maximum period of 14 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 14 days each provided there is not 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 10 paise 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 over due charge will be increased by 50 paise 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 charged and similar other collections made from library users shall be maintained separately by the institute. The funds 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 removed from the library premises.
10. Hand books, rare reference materials, encyclopedia, ISI specification, codes and selected texts and reference books kept in the reserve section 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.

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 any body causes the damages 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 action 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.

LIBRARY FOR DIPLOMA STUDENTS :

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 :

1. All teaching staff and other employees of the Institute.
2. All Diploma students of the Institute.

The usual working hours of the library is from 9.00 A.M. to 7.00 P.M. on all working days except on Saturday and other public holidays. The above working hours may be changed with proper notification.

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.

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 over due charge of 10 paise per day per book shall be charged upto 15 days of default. The calculation of days include the date of return. The rate of overdue charge will be increased to 50 paise per day per book for the defaults starting from 16th day onwards after the due date.

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 incharge of the library.

14. BOOK BANK

The difficulties of the students to buy costly text books are solved partially by the Book Bank Scheme. Purchase of books of such purposes are 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. Now they have totally stopped it. 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.

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 are 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.

The students who drop out in the middle should ensure that the books in their name are returned back to the Book Bank.

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.

16. CULTURAL ASSOCIATION

The Cultural Association plays a pivotal role in exploring the multi dimensional talents of the students and in shaping their personality. The Association is run by nominated 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 is also responsible for publication of Institute's annual magazine "Technoquest" and the Souvenir of Final year students "Memoirs" alongwith a quarterly news letter "IGIT-HERALD"

18. 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. These chapters conduct Alumni meets from time to time. Currently the activities of the association is enhanced because of the Silver Jubilee Celebration of the Institute. The Association has also set up its own website by the name www.igitalumni.org

19. (A) ACADEMIC REGULATIONS B. TECH PROGRAMME

1.0 Duration of Curriculum and Calendar :

1.1 Each year shall be divided into two Semesters Autumn Semester (July to December) and

Spring Semester (January to June). The Autumn semester shall ordinarily begin in July for students already on rolls and the Spring semester shall ordinarily begin in January. However, the first semester (Autumn, for newly admitted students) may begin a little later depending on completion of admission formalities. The number of teaching weeks in each semester shall be fifteen to eighteen with a minimum of 90 teaching days excluding the period of examination.

1.2 Each year the University shall draw out a calendar of academic and associated activities,

which shall be adhered to. The same is non negotiable. Details of curricula and syllabi shall be as decided by the Academic Council with provision for modification from time to time as per the needs of the specializations concerned.

1.3 Duration : The duration of the programme shall be governed by the regulations of AICTE

that may change from time to time. As per the prevailing regulations, B.Tech programme is Four years (Eight Semesters). A weaker student can complete a four year programme in not more than seven years.

2.0 Eligibility for Admission :

2.1 Admissions to different courses of the University shall be based on criteria decided by the Academic Council of the University. There shall be provision for direct admission for a limited number of NRI / FN students. Details of criteria for admission shall be as per provisions of the rules formulated for the purpose. The University shall adopt the eligibility criteria and admission procedure as specified by AICTE/UGC with suitable changes (if necessary).

2.2 Physically handicapped Candidates shall be required to satisfy the prescribed medical fitness norms.

2.3 Admissions shall ordinarily close before a specified period from the date of commencement of the first semester instruction, through a notification / academic calendar.

2.4 Candidates shall have to register as bonafide students with the University as per University regulations before commencement of instruction in First Semester and for Lateral, entry students in Third Semester.

2.5 For students pursuing first degree Engineering / Technology programme only in constituent/affiliated institutions, a student may be allowed a change of branch in an institution / college after completion of course requirements for the first (autumn) and second (spring) semesters of the first year programme, subject to availability of seats in a programme. The selection shall be on the basis of merit, assessed through the combined results of the first and second semester examinations declared in the form of Cumulative Grade Point Average (CGPA) at the end of the first year. This is an incentive to meritorious students securing a CGPA of 8.5 or more. The change of branch shall be accorded to only such students who have cleared all examination items of both the semesters in first attempt, in examinations held during academic session of his / her first admission to the course. Change of branch may be accorded subject to the condition that the consequent total student strength in the 'gainer' programme shall not exceed by 10% of the approved seats and the net student strength in the loser programme shall not deplete by more than 10% of the actual student strength existing on the rolls prior to the change during the process. An institution deciding to award benefit of branch change shall constitute a committee (Branch Change Committee) with the Principal as its Chairman. The committee shall invite options from the students. The committee will prepare a merit list based on CGPA and allot change of branch in order of their preferences. Institutional decision on the matter shall be final. The college shall intimate the decision on branch change within seven calendar days of such change. Change of branch process has to be completed at least 15 Calendar days before the instruction at Second year (Third Semester) begins.

2.6 No inter college transfer shall be allowed.

Under extraordinary circumstances however the University may transfer students from one affiliated institution / college to another in the same programme at any time during the continuation of the programme without assigning any reason for the same.

3.0 Eligibility for appearing Examinations:

3.1 A student shall be eligible to appear in an examination provided he / she pursues a regular course of study in respective department and attends at least 75% in each of theoretical, practical and sessional subjects scheduled during the semester. The attendance shall be considered from the date of admission of the candidate in the institution / college. The schedule of classes shall be notified through a Time Table to the students at least seven days before the beginning of the 1st class (Date specified In the Academic Calendar) in the Semester.

3.2 Concessions: A student who has been absent for short periods on health ground or due to

participation in cultural, sports, other academic / official assignments in the interest of the institution / college / University / government with prior written permission of the head of the Institution / college shall be permitted a maximum of additional concession of 10% in attendance and would be eligible for appearing in examination with a minimum of 65% of attendance in a semester.

3.3 A student shall be admitted to any examination in a subject only if he / she has registered

for that subject, paid necessary registration and examination fees in the beginning of the semester.

3.4 A candidate shall be allowed in an End Semester examination only after he / she is issued an Admit Card for the relevant examination by the College. The college shall obtain clearance on eligibility from the University.

3.5 A student who is promoted to the next higher year with backlogs in the previous year shall be permitted to appear at an examination, provided he/she fulfills the conditions 3.1 to 3.4 above. However such conditions will be essential for the supplementary examination to be conducted for the final year (8th Semester candidates in B. Tech)

4.0 Rules for examinations:

4.1 Each discipline consists of the following four types of items:

- Theory Items
- Practical Items
- Sessional Items
- Project Items

The schedule of these items along with their credit points for each semester shall be as formulated by the Academic Council from time to time.

4.2 At the end of each semester, there shall be an examination (hereinafter called end semester)

extra conducted by the University as per programme announced by the Director, Examinations at that of each academic year / semester.

4.3 Back paper examinations, if any, shall be held with the normal end semester examination.

4.4 For all First Degree level University programmes, supplementary examination shall not be held under normal conditions for students with backlogs upto final year level. Such students shall be expected to clear their arrear items alongwith regular students of lower semesters at the relevant semester in subsequent year(s) or in the same year if a subject is offered in both terms. For the purpose of degree, only separate supplementary examination for both Autumn and Spring semesters at the final year level shall however be held within one month of the publication of the final degree examination results.

5.0 Declaration of Result and Promotions :

5.1 In order to pass a programme / course a candidate must secure at least Pass Grade in each of the Theory, Practical, Project, Seminar, Sessional and Viva Voce items and maintain a minimum level of overall performance as specified in the rules formulated by the Academic Council.

5.2 Unless otherwise stated in the rules governing promotion, the promotional status between

two consecutive semesters and / or two consecutive levels / years shall be indicated on the semester credit card as per details below:

a. Passed and Promoted (denoted by P) and indicating that

- The candidate has cleared every registered course item of both odd and even semester of the academic year.
- He / she has no backlogs from the lower levels.

b. Rules for promotion & Subject Registration

For all under Graduate (B. Tech) Programmes.

- For promotion from 1st to 2nd year

A student at the end of the 1st year (inclusive of first and second Semesters) having a CGPA of 4.5 or more eligible for promotion to 2nd year, regardless of the number of failed subjects.

A Student with a CGPA of less than 4.50 may choose to quit; or pursue studies after registering as a fresh student in the first year. If the registered student in the new 1st year once again fails to secure a CGPA of at least 4.50 at the end of the second semester, he/she has to quit the BPUT system.

- Each Lab/sessional paper and a theory paper treated as a subject.

● During the course of study, a student can register for a maximum of three backing subjects (with requisite attendance in those subjects) of the lower semesters, preference being given to the lowest possible semester in addition to the prescribed subjects for that specific semester.

● During any time in the course of study (1st to 8th semester) a student will not be permitted to register in a higher semester subjects if he/she does not have the requisite attendance in the immediate lower semester.

● If a student does not secure a pass grade in Lab / Sessional subject, he/she has to clear the same in accordance with the laid down procedure in the Academic Regulations.

- The student once registered for a set of backing subjects cannot change them during the semester.

- After completing the 8th semester, a student may register in any number of subjects and attempt to clear them during appropriate semester examinations.

● If the college could accommodate in the time-table, a student if he/she desires may attend the classes for backing registered subjects and the revised class test marks will then be considered. For a student who would not attend the classes, the class test marks already recorded for these backing subjects would remain valid till he/she is registered with BPUT.

- Registration for the Special Examination

There shall be No Supplementary Examination; however, there shall be only one special Examination after the 8th Semester examination for 3rd to 8th semester subjects. Students, after completion of 8th Semester, can register in any number of subjects for the Special examination as per their syllabus of 3rd to 8th semesters only. The Special Examination will start from 30th June of every year. There shall not be any re-valuation for any subject of the special examination.

- Pre-requisite Subjects

The group of pre-requisite subjects will be notified for registration from the academic session 2008-09

c. Ineligible for promotion (denoted by X) indicating that

The candidate is NOT eligible for promotion to the next higher level due to non fulfillment of stipulations governing eligibility for promotion to next level / year.

5.3 A candidate shall be eligible for promotion to the next higher level / year if he / she satisfies

the conditions laid down under the rules formulated by the Academic Council.

5.4 Candidates declared as eligible for promotion to the next level without clearing all course items of earlier semesters individually shall have to apply for permission for admission to the higher level and obtain the same from the director / principal of concerned institution before registration. Permitted candidates have to first register for backlog subjects if the same are being offered in Semester.

5.5 The University shall publish a list of all successful candidates of each of the semester examinations within the date prescribed in academic calendar.

5.6 The over all performance of a successful candidate for the award of a degree shall be based on the combined results of all the examinations of the concerned programme.

5.7 A student's level of competence shall be categorized in accordance with the cumulative Grade Point Average.

6.0 Grading System :

6.1 A letter grading system shall be followed in the University. The uniform Grading System to be followed for all Academic Programmes (except Ph.D. and D.Sc) shall be as described below:

- i. A Seven Point grading system on base of 10 shall be followed in the University. Categorisation of these grade and their correlation shall be as under :

Qualification	Grade	Score on 100	Point Percentage Points
Outstanding	'O'	100 to 90	10
Excellent	'E'	89 to 80	9
Very Good	'A'	79 to 70	8
Good	'B'	69 to 60	7
Fair	'C'	59 to 50	6
Pass	'D'	49 to 35	4
Failed	'F'	Below 35	2

N.B. : Grade C shall be considered average, Grade D shall be passed Grade for theory and Grade C shall be Pass Grade for Practical/Sessional/Project/Seminar/Viva-Voce.

ii. A transitory letter grade I (carrying point 2) shall be introduced for cases where the result are incomplete. This grade shall automatically be converted into appropriate grade(s) as and when the results are complete.

6.2 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.

6.3 Definition of terms. :

- a) POINT - Integer showing each letter grade. (see previous page)
- b) CREDIT - Integer signifying the relative emphasis of individual course items in a semester as indicated by the Course structure and syllabus. (see page 52)
- c) CREDIT POINT - (b) x (a) for each course item.

d) CREDIT INDEX - CREDIT POINT of course items in a Semester.

e) GRADE POINT - $\frac{\text{CREDIT INDEX}}{\sigma \text{ CREDITS}}$
AVERAGE

SEMESTER GRADE POINT AVERAGE (SGPA)

SGPA = $\frac{\text{CREDIT INDEX for a Semester}}{\sigma \text{ CREDIT}}$

CUMULATIVE GRADE POINT AVERAGE (CGPA)

CGPA = $\frac{\sigma \text{ CREDIT INDEX of all previous Semester}}{\sigma \text{ CREDITS of all previous Semesters upto 8th Semester.}}$

7.0 Degree Requirements :

7.1 B. Tech Degree Programme

A candidate will be eligible for award of B. Tech degree in an approved Engineering discipline if

(a) The following credit requirements in each of the subject categories and in total have been completed (cleared) with Pass grade or more in each subject.

Subject Category	No. of Credits	
	Minimum	Maximum
Basic Science	30	35
Basic Engineering	40	45
Profession Core	60	65
Professional Electives	30	35
Humanities and Management	25	30
Project	10	10
Comprehensive Viva - Voce	5	5
Total Credit for the degree	200	210

*Pass grade in D in Theory and C in all other items.

(b) Obtains at least satisfactory grade (C) in NCC / NSS / Games / Sports / Music / Drama / Debate / Quiz / Yoga.

(c) The candidate has not been convicted for any cognizable offence.

(d) The CGPA is 6.0 or more.

(e) A student may be allowed to receive final degree with F grade, in some registered subjects provided he/she has cleared minimum required credits with grade D or more and fulfills other conditions. The subject where he/she has secured F grade will not be shown in Marksheet.

(f) There shall be no class / division awarded to a student either at Semester or degree level.

(g) A student's level of competence shall be categorised by the GRADE POINT AVERAGE. It shall be the basis of judging his / her overall competence in the course.

(h) For award of gold medal / scholarships etc, more than one candidates may be declared Joint Winner if they have same CGPA.

8.0 Examination :

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

8.1 Theory Papers

(a) A theory paper will have 100 percentage points. The weightage for three class tests and the end semester examinations will be as follows :

- Class Test - I of one hour duration = 10 percentage points.

- Class Test - II of one hour duration = 10 percentage points.
 - Class Test - III of one hour duration = 10 percentage points.
 - End Semester Examination of three hours duration. = 70 percentage points.
- Total = 100 percentage points.**

(b) The syllabus for each theory paper will have 4(8) modules. The three Class tests will be nearly equispaced in Academic Calendar. While the first Class test will be after 1(2) module(s), the second and the third tests will be after 2(4) and 3(6) modules. While Test I will cover first (1st and 2nd) modules(s) of syllabus, Test 2 will cover 2nd (3rd and 4th) module(s). Third test will cover 3rd (5th and 6th) module(s). The end semester examination is comprehensive and will cover all 4(8) modules. The academic calendar will specify the examination period for all Class tests and the end semester examination.

(c) The class Tests will be conducted at the college level in the Scheduled week and the corrected papers have to be shown to the students within seven calendar days. The score out of 10 percentage points shall be immediately sent to the University.

(d) There is no compensatory Class Test. If a candidate misses a Class Test due to medical reasons, the candidate will make an application to the college. The college will constitute a medical board with a doctor not below the rank of a CDMO to examine if the illness was serious enough to compel him/her to abstain from appearing at the test. Medical board report with the recommendation of the Principal shall be sent to the University for consideration of compensating test /award of percentage points. The University shall constitute a committee to recommend the action for each case. If the committee recommends compensatory percentage points, it will be the average of the other two tests.

(e) A candidate shall Clear (Pass) a theory paper if he/she secures :

- (1) A minimum of 25 Percentage points out of 70 points (theory) in the end Semester exams &
- (2) A minimum of 37 percentage points out of 100 points in three class Tests & end Semester exam taken together (theory)

8.2 Practical Papers

- (a) The syllabus of a paper shall specify the number of practical experiments (works) to be done in a semester.
- (b) A practical paper shall have 100 percentage points.
- (c) Each practical experiment (work) shall have equal percentage point as its weightage.
- (d) A practical paper shall have 2, 3 and 6 contact hours/week for 1, 2 and 4 credit papers respectively. Time table must provide for such contact hours.
- (e) A practical experiment (work) shall be completed in all respect within the allotted hours. The evaluation of the experiment (work) done by the candidate has also to be completed within the allotted hour. A practical experiment (work) will be evaluated based on the following components. The relative weightage of the components are also given below.

● Experiment (work) planning and execution	20
● Results and interpretation	30
● Report	30
● Understanding on the theory related to experiment	20
Total	100

- (f) A candidate has to be told about the score at the end of a Practical class. The

Score shall be sent to the University on the same day.

(g) The teacher concerned with a practical class shall maintain the reports of the candidates together with the score on each experiment giving the reasons for awarding either very high score (90 percent or above) and low score (30 percent and below).

(h) A candidate shall clear a Practical Paper if his/her score in the paper is minimum of 50 percentage points.

(i) College can arrange a compensatory practical class for a student who misses an experiment only on medical ground. Such a compensatory experiment has to be arranged within two weeks of his/her missing a practical class.

The score for the compensatory test shall be sent to the University giving reference to the original practical date that the student has missed.

8.3 Sessional Papers

(a) Sessional paper will carry 10 percentage points.

(b) The syllabus shall prescribe the number of jobs and specific tasks to be performed in each job. All jobs in a sessional shall have more or less same allotted contact hours and equal weightage.

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

- Quality of job 50 percentage
- Understanding of the job and related theory 30 percentage
- Quality of report and viva - Voce 20 percentage

(d) Each sessional work is to be completed during allotted hours in the class itself.

(e) No sessional works can be done at home / hostel.

(f) At the end of each sessional work, the evaluation will be done. The student is to be shown the score and told about weaknesses (if any).

(g) At the end of each sessional the marks are to be sent to the University.

(h) If a student misses up to 35 percent of allotted sessional hours for a job on health ground, he/ she may make an application to the Principal along with a medical certificate. A committee constituted by the Principal may consider the application and the student may be allowed compensatory classes to complete the sessional work beyond the regular allotted hours.

(i) The teacher concerned shall maintain all records of the sessional work at least for a semester for inspection by the University.

(j) A candidate shall clear (Pass) a Sessional Paper if he/she scores minimum of 50 percentage points.

8.4 Project Item

(a) A Project item shall carry 100 percentage points.

(b) Each candidate shall do a project under the supervision of a Supervisor. There could be a Co-supervisor if the project is interdisciplinary in nature. For an Industry based project, the Co-supervisor could be from concerned Industry. Project could be Theoretical/Practical/Design oriented.

(c) Evaluation of the Project

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

- Understanding the relevance, scope and dimension of the project 10 points
- Relation to literature/application 10 points
- Methodology 10 points
- Quality of Analysis and Results 10 points
- Interpretations and Conclusions 20 points
- Report 20 points

- Defence 20 points
100 points

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

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

iv. The Chairman of the Committee shall forward the score within the prescribed date to the University. He/She shall also maintain all records for inspection by the University for at least a semester. He/She submit a copy to the Principal for records.

8.5 Seminar Item

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

- | | |
|---|------------|
| (a) Quality of Material | 30 points |
| (b) Quality of Presentation | 30 points |
| (c) Quality and extent of response
from other students | 20 points |
| (d) Participation in other Presentations | 20 points |
| | 100 points |

A candidate has to not only give his/her seminar, but also must attend atleast 75 percent of seminars given by other students. The Chairman of the Committee shall forward the score within the prescribed date to the University. He/She shall also maintain all records for inspection by the University for at least a semester. He/She shall submit a copy to the Principal for records. Minimum score for a Pass in Seminar item shall be 50 percentage points.

8.6 Comprehensive Viva-Voce Item

- Expert
- (a) This shall be done by a Committee of Teachers with participation of an External
from an Institution/Industry of repute.
- (b) The Chairman of the Committee shall forward the score within the prescribed date
to
the University. He/She shall also maintain all records for inspection by the University for at least a semester. He/She shall submit a copy of the score to the Principal for records.
- (c) Minimum score for a Pass in Viva-Voce is 50 percentage points.

8.7. Evaluation Responsibility

(a) The teacher imparting instruction is solely responsible for evaluation of Class Tests, Practical and Sessional works. He/She is also responsible for maintaining all records to justify his/her evaluation scheme and score thereof.

(b) Neither the Principal nor the Management shall have right to change the score assigned by a teacher. However, if the Principal is convinced that the scores assigned by a teacher is biased, he/she shall appoint a committee where the teacher concerned will be a member for review. The decision of the committee shall be final and binding. The decision with the revised score shall be sent to the University for necessary action.

(c) A copy of the score assigned for each Class Test, Practical and Sessional work shall be submitted to the Principal for records, and the same will be sent directly by the teacher concerned to the University.

9.0 Time Table for Instruction :

Each constituent/affiliated college has to prepare time table for the subjects (Theory, Practical and Sessional being offered in a semester at least 15 calendar days before the coursewise registration of students to that semester. The time table must also contain the teacher who is handling a subject. If the subject is handled in more than one sections the names of the teachers handling all the sections should be given. Each constituent / affiliated college shall have to submit Time Table at least 10 calendar days before registration.

10. Registration of Teachers :

- (a) Each regular faculty engaged in teaching of a theory paper, supervision of Practical, Sessional and Project work shall be registered teacher of the University.
- (b) A teacher of a constituent/affiliated college of the University has to get himself/herself registered in the University before he/she handles the formal instruction. The college shall forward the registration form in prescribed format with necessary fees to the University.
- (c) Only a registered teacher of the University shall be permitted to get involved in teaching, invigilation examination and evaluation processes.
- (x) The University reserves the right to cancel the registration of a teacher, if the performance of a teacher is found to be unsatisfactory and his/her conduct is unbecoming of a teacher with out assigning any reason for the action.

**Sd/-
Vice Chancellor &
Chairman Academic Council**

19. (B) ACADEMIC REGULATIONS MCA PROGRAMME

1.0 Duration of Curriculum and Calendar :

1.1 Master in Computer Application (MCA) Programme is of three years duration. Each year shall be divided into Two Semesters. First Semester shall ordinarily begin in August and end in December. Second Semester shall ordinarily begin in January and end in May. Sometimes due to delay in admission formalities, the First Semester (for fresh students) may be delayed by few days. The Second Semester may also be delayed.

1.2 Each year, the University shall draw an Academic Calendar and the same shall be non negotiable and strictly adhered to the Academic Calendar for the First year shall be handed over to each admitted student along with his / her University Registration Card. Second year Academic Calendar shall be made available during registration for Third Semester and Third year calendar during registration for Fifth Semester.

1.3 The Curriculum and Syllabus shall be modified with approval of Academic Council positively once in every three years to keep the same up to date. However, minor modifications can be done as and when necessary with the approval of the Vice Chancellor, The modification so done shall be placed to the immediate next Academic Council Meeting for ratification.

1.4 A candidate may be permitted to complete MCA degree requirements in not more than 5 years (10 Semesters).

2.0 Eligibility for Admission and Admission Procedure :

2.1 The eligibility for admission to MCA shall be same as one decided by AICTE from time to time.

2.2 The Selection of students shall be done on the basis of the Joint Entrance Examination of the State or Common Entrance Test of the University. Merit listed candidates shall be called for counseling either centrally or at College level.

2.3 Admission shall ordinarily close prior to the commencement of the instruction in the First Semester.

2.4 Provisional admission may be permitted on specific request for a merit listed candidate if his/her examinations are over and his/her results are not yet out. Such a candidate shall have to submit proof of Passing with minimum prescribed marks (if any) latest by Thirtieth of September. Otherwise, his/her provisional admission shall be automatically cancelled.

2.5 No inter college transfer shall be allowed. Under extraordinary circumstances however the University may transfer students from one constituent / affiliated institution / college to another in the same MCA programme at any time during the continuation of the programme without assigning any reason for the same. The college / institution to which such candidates are transferred shall have to admit them and allow to complete the programme.

3.0 Eligibility for appearing in Examination :

3.1 A student shall be eligible to appear in an examination provided he / she pursues a regular course of study in respective department and attends at least 75% of class in each theoretical, practical and sessional subject during the, semester. The attendance shall be considered from the date of admission of the candidate in the institution / college.

3.2 Concessions: A student who has been absent on medical ground or for short periods due to participation in cultural, sports, other academic / official assignments in the interest of the institution / college / University / government with prior written permission of the head of the institution / college shall be permitted a maximum of additional concession of 10%, in attendance and would be eligible for appearing in examination with a minimum of 65% of attendance in a semester.

3.3 Student shall be admitted to any examination in a subject only if he / she has registered for that subject, paid necessary registration and examination fee in the beginning of the semester.

3.4 Candidate shall be allowed in an examination only after he / she is issued an Admit Card for the relevant examination by the University, after obtaining the eligibility certificate from the head of the institution.

3.5 Student who is promoted to the next higher year with backlogs as stipulated under 7.2 (ii) in the previous year shall be permitted to appear as an ex student / casual student as per provisions.

4.0 Rules for Examination :

4.1 The MCA Programme may consist of following items.

1. Theory Items
2. Practical / Laboratory Items

3. Project Items
4. Seminar Items
5. Comprehensive Viva Voce Items

The schedule for these items along with their credit points for each Semester shall be as per rules approved by Academic Council from time to time.

4.2 At the end of each Semester, there shall be an examination (herein after called end term examination) conducted by the University.

4.3 A candidate securing F grade in an examination has to reregister for the same and appear at the normal end semester examination. There will be no supplementary examination. The student shall have the option to take a substitute paper in lieu of the paper where he/she has secured F grade. However, the paper shall belong to the same item and category of the subject in that item.

4.1 Evaluation of Theory Papers

The performance of a candidate in a subject shall be evaluated based on following components.

- | | |
|---|-------------------|
| (a) End term comprehensive examination | 70 points |
| (b) Two class tests of one hour duration each | 20 points |
| (c) One quiz of 30 minutes duration | 10 points |
| | 100 points |

The subject teacher shall evaluate (b) and (c), show the evaluated answer paper to the students and discuss the test problems / projects in the class. He / She will have the responsibility of sending the score to the University. The concerned teacher shall maintain all records for inspection by the University for at least one semester. The Principals shall maintain a copy for records.

4.2 Evaluation of Project

(a) Evaluation of a project will be done on following points.

- | | |
|---|-------------------|
| ● Understanding the relevance, scope and dimension of the project | 10 points |
| ● Relation to literature / application | 10 points |
| ● Methodology | 10 points |
| ● Quality of Analysis and Results | 10 points |
| ● Interpretations and Conclusions Report | 20 points |
| ● Report | 20 points |
| ● Defence | 20 points |
| | 100 points |

(b) The evaluation will be done by a Committee of teachers where the Project Supervisor will be a member. His evaluation shall carry 50 percentage point weightage. The other members shall have 50 percentage point weightage. For major project, an external expert shall be involved. There shall be minimum of one mid course appraisal of the work by the committee.

(c) Minimum score for a Pass in Project item in 50 percentage points.

(d) The Chairman of the Committee shall forward the score within the prescribed date to the University. He / She shall also maintain all records for inspection by the University for at least a semester. He / She shall submit a copy to the Principal for records.

4.3 Evaluation of Laboratory Works

A Laboratory paper shall have minimum of 5 to a maximum of 10 assignments / experiments. Each assignment shall have equal percentage points. The teacher concerned shall evaluate each assignment I experiment based on quality of result, report and general understanding. He / She shall maintain all records for scrutiny by University for one Semester. On completion of

each assignment / experiment, the evaluation shall be done, The score will be shown to the student and sent to the University with a copy to the Principal for records. Minimum score for Pass in Laboratory work shall be 50 percentage points.

4.4 Evaluation of Seminar

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

- | | |
|--|-------------------|
| (a) Quality of Material | 30 points |
| (b) Quality of Presentation | 30 points |
| (c) Quality and extent of response from other students | 20 points |
| (d) Participation in other Presentations | 20 points |
| | 100 points |

A candidate has to not only give his / her seminar, but also must attend atleast 75 percent of seminars given by other students. The Chairman of the Committee shall forward the score within the prescribed date to the University. He / She shall also maintain all records for inspection by the University for at least a semester. He / She shall submit a copy to the Principal for records. Minimum score for a Pass in Seminar paper shall be 50 percentage points.

4.5 Evaluation of Comprehensive Viva Voce

(a) This shall be done by a Committee of Teacher with participation of an External Expert from an Institution / Industry of repute.

(b) The Chairman of the Committee shall forward the score within the prescribed date to the University. He / She shall also maintain all records for inspection by the University for at least a semester. He / She shall submit a copy to the Principal for records.

(c) Minimum score for a Pass in Viva Voce is 50 percentage points.

4.6 Evaluation Responsibility :

(a) The teacher imparting instruction is solely responsible for evaluation of Class Tests, Practical and Sessional works. He / She is also responsible for maintaining all records to justify his / her evaluation scheme and score thereof.

(b) Neither the Principal nor the Management shall have right to change the score assigned by a teacher. However, if the Principal is convinced that the scores assigned by a teacher is biased, he / she shall appoint a committee where the teacher concerned will be member for review. The decision of the committee shall be final and binding. The decision with revised score shall be sent to the University for Necessary action.

(c) A copy of the score assigned for each Class Test, Practical and Sessional work shall be submitted to the Principal for records, and the same will be sent directly by the teacher concerned to the University.

4.7 A candidate shall pass (clear) a subject if

(a) In a Theory paper he/she has secured minimum of

● A minimum of 25 Percentage points out of 70 points (theory) in the end Semester

exams &
 ● A minimum of 37 percentage points out of 100 points in three class Tests &
 end

Semester exam taken together (theory)
 (b) In a Practical/Laboratory/Sessional/Seminar/Project Paper he/she has secured
 minimum of 50 Percentage Points.

5.0 Grading System :

5.1 A letter grading system shall be followed in University. The uniform Grading System
 to be followed for all Academic Programmes (except Ph.D. and D.Sc) shall be as described below :

(i) A Seven Point grading system one base of 10 shall be followed in the University.
 Categorisation these grade and their correlation shall be as under :

Qualification	Grade	Score on 100	Point Percentage Points
Outstanding	‘O’	100 to 90	10
Excellent	‘E’	89 to 80	9
Very Good	‘A’	79 to 70	8
Good	‘B’	69 to 60	7
Fair	‘C’	59 to 50	6
Pass	‘D’	49 to 35	4
Failed	‘F’	Below 35	2

N.B. : Grade C shall be considered as average, Grade D shall be passed Grade.

ii. A transitory letter grade I (carrying point 2) shall be introduced for cases where the
 candidate fails to appear in End Semester Examination(s) and where the results are incomplete. This
 grade shall automatically be converted into appropriate grade(s) as and when the results are
 complete.

5.2 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.

5.3 Definition of terms. :

- a) POINT - Integer showing each letter grade.
 b) CREDIT - Integer signifying the relative emphasis of individual
 course item(s) in a semester as indicated by the Course structured
 and syllabus.
 c) CREDIT POINT - (b) x (a) for each course item.
 d) CREDIT INDEX - Σ CREDIT POINT of course items in a Semester.
 e) GRADE POINT AVERAGE - $\frac{\Sigma \text{CREDIT POINT}}{\Sigma \text{CREDITS}}$

SEMESTER GRADE POINT AVERAGE (SGPA)

$$\text{SGPA} = \frac{\text{CREDIT INDEX for a Semester}}{\Sigma \text{ CREDIT}}$$

CUMULATIVE GRADE POINT AVERAGE (CGPA)

$$\text{CGPA} = \frac{\Sigma \text{ CREDIT INDEX of all previous Semester upto 6th Semester.}}{\Sigma \text{ CREDITS of all previous Semesters.}}$$

6.0 Promotion and Qualification for Degree :

6.1 Promotion to Second year : A candidate shall be eligible to be promoted to second year provided he/she has I or F Grade in not more than two papers with CGPA of 6.0 in all cleared subjects. The candidate shall register for the subjects with I or F grade in corresponding Semester along with the next year batch to clear these subjects. There is no supplementary examination.

6.2 Promotion to Third year : A candidate shall be eligible to be promoted to second year provided he/she has I or F Grade in not more than two papers with CGPA of 6.0 in all cleared subjects. The candidate shall register for the subjects with I or F grade in corresponding Semester along with the next year batch to clear these subjects. There is no supplementary examination.

6.3 Degree requirements : A candidate shall be eligible to be admitted to the Master in Computer Application (MCA) degree of the University provided he/she

- Has cleared the minimum prescribed credit requirements with minimum of Pass grade in each Theory subject and C Grade for other subject items.
- Has secured minimum CGPA of 6.0 or above.
- Has no disciplinary or court cases relating to college/University matters pending against him/her.
- Has not been convicted for any cognizable offences.

6.4 Credit Requirement for the Degree : Credit Requirements for the Degree shall be Minimum of 160 and maximum of 168. The following Subject Items shall constitute the total credit requirements.

Subject Category	No. of Credits	
	Minimum	Maximum
Basic Sciences	12	16
Humanities and Management	18	20
Profession Core	98	100
Professional Elective	4	4
Projects	20	20
Seminar	4	4
Comprehensive Viva - Voce	4	4
Total		160168

7.0 Time Table for Instructions :

Each constituent/affiliated college has to prepare Time table for the subjects (Theory, Practical and Sessional) being offered in a semester at least 15 calendar days before the course wise registration of students to that semester. The time table must also contain the name of the teacher who is handling a subject. If the subject is handled in more than on sections, the names of the teachers handling all the sections should be given. Each constituent/affiliated college shall have to submit the Time Table to the University at least 10 calendar days before registration.

8.0 Registration of Teachers

(a) Each regular faculty engaged in teaching of a theory paper, supervising Practical, Sessional and Project work shall be registered as a teacher of the University.

(b) A teacher of a constituent/affiliated college of the University has to get himself/herself registered in the University before he/she handles the formal instruction. The college shall forward the registration form in prescribed format with necessary fees to the University.

(c) Only a registered teacher of the University shall be permitted to get involved in teaching, invigilation, examination and evaluation processes.

(d) The University reserves the right to cancel the registration of a teacher, if the performance of a teacher is found to be unsatisfactory and his/her conduct in unbecoming of a teacher.

9.0 Objectives of the MCA course :

The M.C.A. programme prepares students to take up positions as systems analysts, systems designers, programmers and managers in any field related to information technology. The program, therefore, aims at imparting comprehensive knowledge with equal emphasis on theory and practice. The M.C.A. students are encouraged to spend a full semester working in the industry/in the institute giving them insight into the workings of the IT world. However, the course curriculum will have enough flexibility to enable a student to undertake advance studies in Computer Science later on.

19. (C) ACADEMIC REGULATIONS DIPLOMA PROGRAMME

1.0 Eligibility of Appearing Examination :

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

(i) Attended atleast 75 per cent 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 hours may declare any part of the session as holiday/vacation or otherwise for not taking into account in percentage calculation.

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

(iii) Shortage of attendance on account of illness if any case be condemned upto 15 per cent by the secretary. State Council of Technical Education and Training, on application in writing alongwith 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.

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

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

(a) Parent/Guardian shall personally approach the concerned Principal with written application requesting for re-admission.

(b) 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.

2.0 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.

- (i) Theory : At least 35 per cent of the total marks in each theory papers.
- (ii) Practical : At least 40 per cent of the total marks in each practical examinations.
- (iii) Aggregate : 45 per cent in aggregate of the total marks for Engineering Courses. Pass mark in each subject is 45 per cent, Aggregate 45 per cent.

3.0 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.

4.0 Award of Division:

(i) 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.

- (a) 1st Class with Honours : 75 per cent and above of the marks secured.
- (b) 1st Class : 60 per cent and above but less than 75% of marks secured.
- (c) 2nd Class : 45 per cent and above but less than 60 per cent of the marks

secured.

- (d) Pass : Below 45 per cent marks secured but above 40 percent in case of Engineering Diploma.

- (e) (i) Students who have secured more than 75 percent with back paper in 2nd or 3rd year Examinations are not eligible for award of honours.

(ii) 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 intership before applying for final Diploma Certificates in the same manner.

(iii) 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.

5.0 Examination Rules (Re-Admission) :

The following categories of students may be allowed for readmission.

(i) 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.

(ii) A student who has studied in second year or third year as the case may be, but could not appeared 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.

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

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

(v) 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.

6.0 Limitation of Period of appearing Diploma Examination:

(i) 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.

(ii) 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.

7.0 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 curriculum development with payment of the fees as will be decided by the management from time to time.

The fees structure of Govt. of Orissa will be applicable for Diploma students of IGIT, 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.

(i) Student desirous to stay in the hostel shall have to pay Rs. 2500/- as Mess advance

at the time of allotment of accommodation.

(ii) 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 hole 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.

- (i) Institution general caution money
- (ii) Mess advance

EXAMINATIONS

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

BIJU PATNAIK UNIVERSITY OF TECHNOLOGY, ORISSA **ROURKELA**

20. (A) COURSE STRUCTURE & SYLLABUS FOR 1st YEAR (2009-10-Admission Batch)

B. TECH PROGRAMME

		1 st Semester			2 nd Semester
Theory		Contact Hrs.			
Code	Subject	L.T.P.	Credit		
BS 1101	Mathematics-1	3-1-0	4		
BS 1102	Physics - I				
	or	3-0-0	3		
BS 1103	Chemistry-I				
BE 2101	Basic Electronics				
	or	3-0-0	3		
BE 2102	Basic Electrical Engg				
BE 2103	Thermodynamics				
	or	3-0-0	3		
BE 2104	Mechanics				
HM 3101	Communicative English	2-0-0	2		
BE 2105	Programming in 'C'	3-0-0	3		
	Theory Credits	18			

Theory		Contact Hrs.			
Code	Subject	L.T.P.	Credit		
BS 1104	Mathematics-II	3-1-0	4		
BS 1103	Chemistry-I				

	or	3-0-0	3
BS 1102	Physics - I		
BE 2102	Basic Electrical Engg		
	or	3-0-0	3
BE 2101	Basic Electronics		
BE 2104	Mechanics		
	or	3-0-0	3
BE 2103	Thermodynamics		
HM 3102	Business Comm. in English	2-0-0	2
BE 2105	Data Structure using 'C'	3-0-0	3
	Theory Credits	18	

Practical / Sessional

BE 7101	Engineering Drawing		
	or	0-0-3	2
BE 7102	Workshop Practice		
BE 7103	Physics Laboratory		
	or	0-0-3	2
BE 7104	Chemistry Laboratory		
BE 7105	Basic Electronics Laboratory		
	or	0-0-3	2
BE 7106	Basic Electrical Engg. Lab.		
BE 7107	'C' Programming Laboratory	0-0-3	2
HM 7101	Communicative English Lab.	0-0-3	2
	Practical/Sessional Credits	10	

TOTAL SEMESTER CREDITS 28

TOTAL CUMULATIVE CREDITS 28

Practical / Sessional

BE 7102	Workshop Practice		
	or	0-0-3	2
BE 7101	Engineering Drawing		
BE 7104	Chemistry Laboratory		
	or	0-0-3	2
BE 7103	Physics Laboratory		
BE 7106	Basic Electrical Engg. Lab.		
	or	0-0-3	2
BE 7105	Basic Electronics Laboratory		
HM 7102	Business Communicative	0-0-3	2
BE 7108	Data Structure using 'C' Lab	0-0-3	2
	Practical/Sessional Credits	10	

TOTAL SEMESTER CREDITS 28

TOTAL CUMULATIVE CREDITS 28

20. (B) COURSE STRUCTURE & SYLLABUS FOR FIRST YEAR **MCA PROGRAMME**

The course is to be completed in 6 semesters. The first semester will comprise mostly of common subjects needed to build a base for the subjects to follow in pursuance of the objectives of the course. The

2nd to the 5th semesters will be mostly divided into core subjects and electives which offer the student a choice to build expertise in some fields based on personal choice. The last semester will be devoted to project work testing the student's application in the fields studied so far and provide valuable experience before stepping into the professional world of Information Technology.

2.0 Course Outline Semester wise :

		Semester - I	
Subject Code	Subject	Contact Hrs.	Credit
MCC101	Programming in C	3-1-0	4
MCC102	Misroprocessor and Assembly Language Programming	3-1-0	4
MCC103	Discrete Mathematics	3-1-0	4
MCC104	Engineering Economics and Costing	3-0-0	3
MCC105	Financial Accounting	3-0-0	3
MCC106	Communicative English	2-0-0	2
MCL107	Communicative English Lab - I	0-0-3	2
MCL108	Lab - I (C Programming Lab)	0-0-6	4
MCL109	Lab-II (Assembly Language Programming Lab)	0-0-3	2
Total			28
		Semester - II	
MCC201	Data Structures using C	3-0-0	3
MCC202	Computer Organisation and System Architecture	3-1-0	4
MCC203	Object Oriented Programming using C++	3-0-0	3
MCC204	Theory of Computation	3-0-0	3
MCC205	Computer Based Numerical Methods	3-0-0	3
MCC206	Business Communication in English	2-0-0	2
MCL207	Communicative Practice Lab-II	0-0-3	2
MCL208	Lab III (Data Structure in C Lab)	0-0-6	4
MCL209	Lab IV (C++ Programming Lab.)	0-0-3	2
MCL210	Seminar	0-0-3	2
Total			28
		Semester - III	
MCC301	Analysis and Design of Algorithms	3-1-0	4
MCC302	Operating Systems	3-1-0	4
MCC203	Computer Networks	3-0-0	3
MCC304	Data Base Systems	3-1-0	4
MCC305	Probability and Statistics	3-0-0	3
MCC306	Management Information Syatem	3-0-0	3
MCL307	Lab-V (Operating System & Network Lab)	0-0-6	4
MCL308	Lab-VI (Date base Lab)	0-0-3	2
MCL309	Communication and Interpersonal Skills for Corporate Readiness	0-0-2	1
Total			28

20. (C) COURSE STRUCTURE & SYLLABUS FOR FIRST YEAR

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

1st SEMESTER (COMMON) (Effective from 2001-2002 Session)

Theory Subjects	Teaching Scheme			Evaluation Scheme			
	Th	PR	TH	Pr	Sess.	1A	Total

1.	Communicative English (Th-1)	3	2	80	50	-	20	150
2.	Eng. Math-1(Th-2)	6	-	80	-	-	20	100
3.	Engg. Physics (Th-3)	6	4	80	25	25	20	150
4.	Engg. Drawing(Th-5)	-	8	-	100	50	-	150
5.	Basic Elec. and Electronics (Th-4)	6	4	80	50	-	20	150
6.	Technical Seminar		3	-	25	25	-	50
		21	21	320	250	100	80	750

N.B. : Although no theory paper is there in the subject Engg. Drawing, one examination in the Engg. Drawing will be there carrying 100 marks.

2) Basic Electricals and Basic Electronics will be conducted separately carrying marks on 50:50 basis.

TEACHING AND EVALUATION SCHEME FOR 2ND SEMESTER (COMMON)

Theory Subjects	Teaching Scheme		Evaluation Scheme					
	Th	PR	Th	1A	Pr	Sess.	Total	
1. Engg. Math-II	6	-	80	20	-	-	100	
2. Engg. Chemistry	5	4	80	20	25	25	150	
3. Engg. Mechanics	6	-	80	20	-	-	100	
4. Computer Appln.	5	4	80	20	25	25	150	
5. Workshop Practice	-	9	-	-	100	50	150	
6. Technical Seminar	-	3	-	-	50	50	100	
	22	20	320	80	200	150	750	

21. (A) FEES STRUCTURE
B.Tech. STUDENTS
2011-12

<u>Item of fee</u>	Payable At the time of <u>First admission</u>	Payable at the time of enrolment to subsequent <u>odd semester</u>	payable at the time of enrollment to subsequent <u>Even Semester.</u>
1. Institution Dues :			
Admission fees	Rs. 300/-	-	-
Tuition fees	Rs. 10000/-	Rs. 5000/-	Rs. 5000/- (except in 2 nd sem.)
Identity Card	Rs. 50/-	-	-
Health Card	Rs. 20/-	-	-
Pass Certificate	Rs. 20/- Once	-	-
Inst. Exam. Fees	Rs. 200/-	Rs. 200/-	Rs. 200/-
Prospectus	Rs. 100/-	-	-
Orientation Programme	Rs. 30/-	-	-
Development Fees	Rs. 6000/-	Rs. 3000/-	Rs. 3000/- (except in 2 nd Sem)
Electricity charges	Rs. 100/-	Rs. 100/-	Rs. 100/-
Inst. Caution Money	Rs. 2500/- (once)	-	-
Library	Rs. 50/-	Rs. 50/-	Rs. 50/-
Medical	Rs. 25/-	Rs. 25/-	Rs. 25/-
2. Hostel Dues :			
Admission Fees	Rs. 150/-	-	-
Seat Rent	Rs. 300/-	Rs. 300/-	Rs. 300/-
Electric charge	Rs. 400/-	Rs. 400/-	Rs. 400/-
Water Charges	Rs. 300/-	Rs. 300/-	Rs. 300/-
Common Room Fees	Rs. 20/-	Rs. 20/-	Rs. 20/-
Hostel Dev. Fees	Rs. 500/-	Rs. 500/-	Rs. 500/-
Depreciation of Hostel			
Furniture/Utensils	Rs. 30/-	Rs. 30/-	Rs. 30/-
Estt. Charges	Rs. 300/-	Rs. 300/-	Rs. 300/-
Mess Advance	Rs. 9,500/- (Boys)	*Rs. 9000/- (Boys)	*Rs. 9000/- (Boys)

	2,500(Caution money) per semester	per semester
	Rs. 7500/- (Girls)	*Rs. 7500/- (Girls)
	(2,500/-Caution money)	(per Semester)
Mess Security	Rs. 200/-	-
Sub Total	Rs.33,095/- (Boys)	Rs. 19,225/- (Boys)
	Rs. 31,595/-/- (Girls)	Rs.17,725/- (Girls)

3. Student Fund :

Robotic Club Fee	Rs. 50/-		
Students Co-op. Stores	Rs. 20/-	Rs. 20/-	Rs. 20/-
Athletic Club	Rs. 150/-	Rs. 150/-	Rs. 150/-
S.S.G. subscription	Rs. 6/-	Rs. 6/-	Rs. 6/-
A.V. Club entry Fee	Rs. 10/-	-	-
A.V. Club subscription	Rs. 100/-	Rs. 100/-	Rs. 100/-
Music Club	Rs. 10/-	Rs. 10/-	Rs. 10/-
<u>Common Room Charges</u>	Rs. 30/-	Rs. 30/-	Rs. 30/-
(Indoor Games)			
Cultural & Dramatics	Rs. 50/-	Rs. 50/-	Rs. 50/-
Inst. / annual Magazine	Rs. 50/-	Rs. 50/-	Rs. 50/-
Student Aid Fund	Rs. 10/-	Rs. 10/-	Rs. 10/-
Souvenir Subscription(Memoir)	Rs. 100/-	Rs. 100/-	Rs. 100/-
Seminar Fees	Rs. 10/-	Rs. 10/-	Rs. 10/-
Misc. Charges	Rs. 5/-	Rs. 5/-	Rs. 5/-
Old boys Association(entry fee)	Rs. 500/-	-	-
Training & Placement	Rs. 600/-	Rs. 600/-	Rs. 600/-
ISTE Membership fees	Rs. 25/-	Rs. 25/-	Rs. 25/-
NCC Subscription	Rs. 10/-	-	-
Internet Users Fee	Rs. 500/-	Rs. 500/-	Rs. 500/-
Total :	Rs. 35,331/- (Boys)	Rs. 20,891/- (Boys)	Rs.20,891/- (Boys)
	Rs. 33,831/- (Girls)	Rs. 19,391/- (Girls)	Rs.19,391/- (Girls)
	(Also Applicable for LE students)		** Rs. 12,891/-
			(for 2nd Sem. & 4th Sem. LE students)

*Out of Rs. 35,331/- & 33,831/- Students are to pay Rs. 9,000/- & 7,000/- respectively in the Hostel towards mess advance.

** Boys- Rs.12,891/- & Girls Rs.11,391/- including mess advance of Rs. 9000/- & 7,500/- respectively.

N.B.: Above fees will be ammended/modified as will be decided by the management from time to time.

FEES FOR SELF FINANCE B.Tech. COURSES

All the items of the fees will be the same for the self finance B. Tech courses as applicable to other B. Tech courses above with the changes as under.

Item of fees	At the time of First admission	During enrolment to Odd semester	During enrolment to Even semester
Tuition Fees	Rs. 40,000/-	Rs. 20,000/-	Rs. 20,000/-

Development Fees	-	-	-
As such the			
Total fees will be	Rs. 59,331/- (Boys)	Rs. 32,891/-(Boys)	Rs. 32,891/-(Boys)
	Rs. 57,831/-(Girls)	Rs. 31,391/-(Girls)	Rs. 31,391/-(Girls)
(Applicable for L.E. Students)			** Rs. 12,891/- (For 2 nd & 4 th Sem LE students)

** Boys- Rs.12,891/- & Girls Rs.11,391/- including mess advance of Rs. 9000/- & 7,500/- respectively.

21. (B) FEES STRUCTURE
MCA STUDENTS
2011-12

<u>Item of fee</u>	<u>Payable At the time of First admission</u>	<u>Payable at the time of enrolment to subsequent odd semester.</u>	<u>payable at the time of enrollment to subsequent Even Semester.</u>
1. Institution Dues :			
Admission fees	Rs. 300/-	-	-
Tuition fees & Dev. fees	Rs. 20,000/-	Rs. 8,000/-	Rs. 8,000/- (Except in 2nd semi.)
Identity Card	Rs. 50/-	-	-
Health Card	Rs. 20/-	-	-
Pass certificate	Rs. 20/-	-	-
Inst. Exam. fees	Rs. 200/-	Rs. 200/-	Rs. 200/-
Prospectus	Rs. 100/-	-	-
Electricity charges	Rs. 100/-	Rs. 100/-	Rs. 100/-
Library	Rs. 50/-	Rs. 50/-	Rs. 50/-
Medical	Rs. 25/-	Rs. 25/-	Rs. 25/-
2. Hostel Dues :			
Admission fees	Rs. 150/- (Once)	-	-
Seat Rent	Rs. 300/-	Rs. 300/-	Rs. 300/-
Electric Charges	Rs. 400/-	Rs. 400/-	Rs. 400/-
Water Charges	Rs. 300/-	Rs. 300/-	Rs. 300/-
Common Room Fees	Rs. 20/-	Rs. 20/-	Rs. 20/-
Hostel Dev. fees	Rs. 500/-	Rs. 500/-	Rs. 500/-
Depreciation of Hostel			
Furniture/Utensils	Rs. 30/-	Rs. 30/-	Rs. 30/-
Estt. Charges	Rs. 300/-	Rs. 300/-	Rs. 300/-
Mess Advance	Rs. 9000/- (Boys) 2,500(Caution money)	*Rs. 9000/-(Boys)	*Rs. 9000/-(Boys)
	Rs. 7500/- (Girls)	*Rs. 7500/-(Girls)	*Rs. 7500/-(Girls)

	2,500(Caution money)		
	(per Semester)	(per Semester)	(per Semester)
Mess Security	Rs. 200/-	-	-

3. Student Fund :

Robotic Club Fee	Rs. 50/-		
Students Co-op. fees	Rs. 20/-	Rs. 20/-	Rs. 20/-
Athletic Club	Rs. 150/-	Rs. 150/-	Rs. 150/-
S.S.G. subscript	Rs. 6/-	Rs. 6/-	Rs. 6/-
A.V. Club entry fee	Rs. 10/-		
A.V. Club subscription	Rs. 100/-	Rs. 100/-	Rs. 100/-
Music Club	Rs. 10/-	Rs. 10/-	Rs. 10/-
Common Room Charges			
(Indoor Games)	Rs. 30/-	Rs. 30/-	Rs. 30/-
Cultural & Dramatics	Rs. 50/-	Rs. 50/-	Rs. 50/-
Inst. Journal/ annual Magazine	Rs. 50/-	Rs. 50/-	Rs. 50/-
Student Aid Fund	Rs. 10/-	Rs. 10/-	Rs. 10/-
Souvenir Subscription(Memoir)	Rs. 100/-	Rs. 100/-	Rs. 100/-
Seminar Fees	Rs. 10/-	Rs. 10/-	Rs. 10/-
Misc. Charges	Rs. 5/-	Rs. 5/-	Rs. 5/-
Old boys Association(entry Fee)	Rs. 500/-	-	-
Registration fees for			
Training & Placement	Rs. 600/-	Rs. 600/-	Rs. 600/-
IST Membership	Rs. 25/-	Rs. 25/-	Rs. 25/-
Internet Users Fee	Rs. 500/-	Rs. 500/-	Rs. 500/-

Total :	Rs. 36,791/-(Boys)	Rs.20,891/-(Boys)	Rs.20,891/-(Boys)
	Rs. 35,291/-(Girls)	Rs.19,391/-(Girls)	Rs.19,391/-(Girls)
			** Rs.12,891/- for 2nd Sem students.

*Students are to pay Rs.9000/-& 7,500/- respectively (Out of Rs.20,891/- & 19,391/- in the Hostel towards mess advance.

** Boys- Rs.12,891/- & Girls Rs.11,391/- including mess advance of Rs. 9000/- & 7,500/- respectively.

N.B. : Above fees will be ammended / modified as will be decided by the management from time to time .

21. (C) FEES STRUCTURE
DIPLOMA STUDENTS
2011-12

<u>Item of fee</u>	<u>Payable for 1st year admission</u>	<u>Payable for 2nd year admission</u>	<u>payable for 3rd year admission</u>
Tuition fees	Rs. 3000/-	Rs. 3000/-	Rs. 3000/-
Cultural fees	Rs. 100/-	Rs. 100/-	Rs. 100/-
Magazine fees	Rs. 75/-	Rs. 75/-	Rs. 75/-
Athletic/games fees	Rs. 200/-	Rs. 200/-	Rs. 200/-
Periodical Tech.journal	Rs. 100/-	Rs. 100/-	Rs. 100/-
S.S.G.	Rs. 20/-	Rs. 20/-	Rs. 20/-
Internal Exam fees	Rs. 100/-	Rs. 100/-	Rs. 100/-
H.S.C. mark verification	Rs. 100/-	-	-
Registration fees	Rs. 25/-	-	-
Identity Card	Rs. 50/-	-	-
Progress Card	Rs. 25/-	-	-
Library Maint.	Rs. 100/-	Rs. 100/-	Rs. 100/-
Workshop maint.	Rs. 100/-	Rs. 100/-	Rs. 100/-
Other Infra. maint	Rs. 70/-	Rs. 70/-	Rs. 70/-
Development fees	Rs. 2000/-	Rs. 2000/-	Rs. 2000/-
Caution Money	Rs. 500/-	-	-
Institution Prospectus	Rs. 100/-	-	-
Insurance	Rs. 129/-	-	-
Training Placement	Rs. 600/-	-	-
Miscellaneous	Rs. 50/-	Rs. 70/-	Rs. 70/-
Internet Fees	Rs. 1000/-	Rs. 1000/-	Rs. 1000/-
Welfare Fund	Rs. 200/-	-	-
	Rs. 8644/-	Rs. 6,935/-	Rs. 6,935/-
Hostel Dues :			
Hostel seat Rent	Rs. 600/-	Rs. 600/-	Rs. 600/-
Electricity Charges	Rs. 600/-	Rs. 600/-	Rs. 600/-
Water Charges	Rs. 600/-	Rs. 600/-	Rs. 600/-
Hostel Contingencies	Rs. 500/-	Rs. 500/-	Rs. 500/-

Audiovisual Subn.	Rs. 200/-	Rs. 200/-	Rs. 200/-
G. Total	Rs. 11,144/-	Rs. 9,435/-	Rs. 9,435/-

N.B.:- Appart from the above, Hostel boarders are to pay Mess Advance of Rs. 8000/- in the Hostel counter for each Semester and Rs. 2500/- towards mess caution deposit at time of hostel admission.

21. (D) FEES STRUCTURE
M.Tech. Regular Courses-2011-12

<u>Item of fee</u>	1st Sem.	2nd Sem.	3rd Sem.	4th Sem.
<u>Institution dues :</u>				
Admission fees	300/-	-	-	-
Tuition fees	22,000/-	22,000/-	22,000/-	22,000/-
Identity Card	50/-	-	-	-
Health Card	20/-	-	-	-
Pass Certificate	20/-	-	-	-
Inst. Int. Exam.	200/-	200/-	200/-	200/-
Prpspectus	100/-	-	-	-
Elect. Charges	100/-	100/-	100/-	100/-
Inst. Caution Money	2500/-	-	-	-
Library	50/-	50/-	50/-	50/-
Medical	25/-	25/-	25/-	25/-
<u>Student Fund :</u>				
Co-Op. Stores	20/-	20/-	20/-	20/-
Athletic Club	150/-	150/-	150/-	150/-
SSG Subscription	6/-	6/-	6/-	6/-
A.V. Club entry fee	10/-	-	-	-
A.V. Club Subs	100/-	100/-	100/-	100/-
Common Room	30/-	30/-	30/-	30/-
Cultural & dramatics	50/-	50/-	50/-	50/-
Inst. magazine	50/-	50/-	50/-	50/-
Student Aid fund	10/-	10/-	10/-	10/-
Souvenir Subscription	100/-	100/-	100/-	100/-
Seminar fees	10/-	10/-	10/-	10/-
Old Boys Assn.	500/-	-	-	-
Internet fees	500/-	500/-	500/-	500/-
TOTAL	26,901/-	23,401/-	23,401/-	23,401/-
<u>Hostel Dues :</u>				
Admission fees	150/-	-	-	-
Seat rent	300/-	300/-	300/-	300/-
Elect charges	400/-	400/-	400/-	400/-
Water charges	300/-	300/-	300/-	300/-
Common Room fees	20/-	20/-	20/-	20/-
Hostel Dev. Fees	500/-	500/-	500/-	500/-
Furniture/utencils	30/-	30/-	30/-	30/-
Estt. charges	300/-	300/-	300/-	300/-
Mess Advance	10,500/-	8000/-	8000/-	8000/-
Total	12,500/-	9,850/-	9,850/-	9,850/-

ABSTACT

	Without Hostel	With Hostel
During 1st Sem.	26,901/-	39,401/-
During 2nd/3rd/4th	23,401/-	33,251/-

21. (E) FEES STRUCTURE

M.Tech. Part time courses-2011-12

<u>Item of fee</u>	1st Sem.	2nd Sem.	3rd Sem.	4th Sem.	5th Sem.
<u>Institution dues :</u>					
Admission fees	300/-	-	-	-	-
Tuition fees	20,000/-	20,000/-	20,000/-	20,000/-	20,000/-
Identity Card	50/-	-	-	-	-
Health Card	20/-	-	-	-	-
Pass Certificate	20/-	-	-	-	-
Inst. Int. Exam.	200/-	200/-	200/-	200/-	200/-
Prpspectus	100/-	-	-	-	-
Elect. Charges	100/-	100/-	100/-	100/-	100/-
Inst. Caution Money	2500/-	-	-	-	-
Library	50/-	50/-	50/-	50/-	50/-
Medical	25/-	25/-	25/-	25/-	25/-
<u>Student Fund :</u>					
Old Boys Assn.	500/-	-	-	-	-
Internet fees	500/-	500/-	500/-	500/-	500/-
TOTAL	24,365/-	20,875/-	20,875/-	20,875/-	20,875/-

Hostel Dues :

Admission fees	150/-	-	-	-	-
Seat rent	300/-	300/-	300/-	300/-	300/-
Elect charges	400/-	400/-	400/-	400/-	400/-
Water charges	300/-	300/-	300/-	300/-	300/-
Common Room fees	20/-	20/-	20/-	20/-	20/-
Hostel Dev. Fees	500/-	500/-	500/-	500/-	500/-
Furniture/utencils	30/-	30/-	30/-	30/-	30/-
Estt. charges	300/-	300/-	300/-	300/-	300/-
Mess Advance	10500/-	8000/-	8000/-	8000/-	8000/-
Total	12,500/-	9,850/-	9,850/-	9,850/-	9,850/-

ABSTACT

	Without Hostel	With Hostel
During 1st Sem.	24,365/-	36,865/-
During 2nd/3rd/4th/ & 5th	20,875/-	30,725/-

21. (F) 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.

7. Bhaskar Bhawan
8. Agni Bhawan - All Diploma Boys students

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

RAGGING :

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.

WHAT CONSTITUTES RAGGING:

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

1. 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;
2. Indulging in rowdy or indisciplined activities by any student or students which causes or is likely to cause annoyance, hardship, physical or psychological harm or to raise fear or apprehension thereof in any fresher or any other student;
3. 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;
4. Any act by a senior student that prevents, disrupts or disturbs the regular academic activity of any other student or a fresher;
5. Exploiting the services of a fresher or any other student for completing the academic tasks assigned to an individual or a group of students.
6. Any act of financial extortion or forceful expenditure burden put on a fresher or any other student by students;
7. 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;
8. 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;
9. 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

The institution shall punish a student to those found guilty, one or more of the following punishments, namely:

- a) Suspension from attending classes and academic privileges
- b) Withholding/withdrawing scholarship/fellowship and other benefits
- c) Debarring from appearing in any test/examination or other evaluation process
- d) Withholding results
- e) Debarring from representing the institution in any regional, national or international meet, tournament, youth festival etc.
- f) Suspension/edpulsion from the hostel
- g) Cancellation of admission
- h) Rustication from the institution for period ranging from one to four semesters
- i) 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.

The following committee 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. RAGGING PREVENTION COMMITTEE

Prof. S. C. Pattanaik, Prof. and Head, Metallurgical Engg.	98610 34812 (M)
Dr M.K.Das, Prof. Civil Engg.	9861272371 (M)
Dr B.D. Sahoo, Prof & HOD, Mechanical Engg.	98611 90444 (M)
Dr B.P.Panigrahi, Prof & HOD, Elect Engg.	9861414967(M)
Mrs Urmila Bhanja,HOD, ETC	9776955601(M)
Prof. B. Sarangi, HOD TP & Chemical Engg. (I/C)	94371 37760 (M)
Prof. S. N. Mishra, Head of Department, CS&A	98614 14972 (M)
Dr BB Choudhury,Supdt. Bhaskar Bhawan	9437166989 (M)
Dr Md N.Khan Supdt. Akash Bhawan	9437528149(M)
Prof. R.S.Subudhi, Supdt., Aryabhata Bhawan	
Mrs Aseema Rout, Supdt. Rohini Bhawan	
Mr P.K.Roy, Supdt,Agni Bhawan	
Prof L.N.Tripathy, Supdt. Surya Bhawan	
Sri B.B.Mishra, Registrar	
Sri S.K.Rath, Dy Registrar	94377 28608 (M)
Prof. R. K. Swain, Warden of Hostel and Convener	98614 41728 (M)

2. ANTI RAGGING SQUAD (FACULTY)

Sri Bhagirathi Tripathy, Lect Civil
 Sri Umakanta Sahoo, Lect Elect.
 Sri Trilochan Rout, Lect Mechanical
 Sri Srinibas Sethy, Lect, CSA
 Dr C.R.Dash, Lect., Math
 Sri Debi Prasad Pani, Lect , English

3. SPECIAL SQUAD FOR LADIES HOSTEL

Dr. (Mrs.) N. Padhi, Professor in English	98610 47079 (M)
Mrs. N. Mishra, SGL in Mathematics	
Mrs. Dipa Das, Lect. in Chemical Engg.	99375 17210 (M)

4. ANTI RAGGING SQUARD (STUDENTS)

4th Year boys

Chemical Engg.	-
Metallurgy Engg.	-
Civil Engg.	-
Electrical Engg.	-
Mechanical Engg	-.

4thYear Boys

Chemical Engg.	Sri Jakr Ansari
Mett. Engg.	Sri Jitun
Civil Engg.	Jagatendu Pratap Lenka
Elect. Engg.	Jyoti Bhusan Barik
Mecg Engg.	Narendra Behera
Elect & Tele.Ebgg.	Amit Ku Patra
Comp. Sc.Engg.	Amit Ku Mishra

3rdYear Boys

Chemical Engg.	Sri Rasan Satpathy
Mett. Engg.	Sarthak Rath
Civil Engg.	Manas Naik
Elect Engg.	Rakesh Sahoo
Mechanical Engg.	Debasis Mohanty
Elect & Tele. Engg.	Sakti Prassan Naik
Comp.Sc.Engg.	Rajiv Lochan Patro

HOSTEL RULES :

The students are advised to obey the following Hostel Rules. All students are required to comply with the Hostel Rules and such Supplementary Rules and Regulations as may be framed by the Hostel Council from time to time. Ignorance of these rules and regulations shall not be accepted as an excuse for violating any of them.

The boarder must submit the prescribed biodata form with photograph to the respective Superintendents.

- (1) A student shall not discontinue in the Hostel unless he has been permitted by the Principal to do so.
- (2) A student shall apply for and obtain necessary permission from the Superintendents prior to remaining absent from the Hostel overnight or longer. Frequent overstay or undue delay in resumption of residence after holidays shall be reported to the Principal. No boarder shall be allowed to remain outside the Hostel premises after 10 p.m. except with specific prior permission of the Hostel Superintendent obtained in writing and duly communicated to the perfect.
- (3) A student shall take due care of his belonging. No one else will be responsible for their loss and damage.
- (4) A student shall keep to the hours set for the meals and studies. Normally study hours are from 7.00 pm except on institute film show days for respective classes.

- (5) Every student shall provide his own lock in his room or unit. He shall also provide his own electric bulb (not exceeding 60 watts).
- (6) No extra electric connection shall be taken from the points already existing in any room nor shall any additional fittings installed without the specific permission of the Superintendent in each case. When the use of the additional electrical appliances is permitted the student shall pay for the cost of an extra point of additional electricity consumed at such rate as may be fixed by the principal in each case. Operation of unauthorised electric appliances shall be furnished with forfeiture of such appliance at sight and fines for misconduct.
- (7) A student shall be responsible for furniture and fittings of the room allotted to him and when vacating the room he shall hand over the furniture and fittings intact to the Superintendent. No furniture may be removed from the room without the permission of the Hostel Superintendent. Repair and replacement costs will be charged to the students responsible for loss or damage.
- (8) No boarder shall permit an outsider to stay in his room or within the hostel premises except with permission of the superintendent.
- (9) Use of intoxicants, all form of gambling, noisy games or playing musical instruments etc. which are likely to disturb are strictly forbidden in the Hostel.
- (10) No meeting shall be held in the Hostel except with prior approval of the Hostel Superintendent.
- (11) A student shall be required to lend his active help and co-operation towards the maintenance of the Hostel.
- (12) Hostel dues shall be paid monthly on 5th to 20th of every month, Institute dues shall not be accepted unless the students has cleared the hostel dues.
- (13) Every student residing in the Hostel must join in the Hostel Mess.

**RULES FOR THE HOSTEL (ROHINI BHAWAN)
IGIT, SARANG**

The boarders of Ladies Hostel (Rohini 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 timemay be enganced 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 woeship 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 dinning hall.
11. Any difficulty if arises they should bring to the notice of the concerned Caretaker at first and then the hostel authority.
12. Some times 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.
Also, the rules of the hostel are to be changed time to time as and when required.
13. Distribution of responsibilities to the organising batch for all occasions should be followed.
14. 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.
15. The 1st yr. students of the Rohini Bhawan are stricly 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.
16. 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 format before departure/arrival positively.

23. GENERAL INFORMATIONS

A. SCHOLARSHIPS AND STIPENDS

The students depending on their merit can avail scholarships and stipends during their study in the Institute. Brief details of such scholarships are given below-

- (a) National scholarship of Government of India awarded by the Government of Orissa will continue during the study period in the Institute.
- (b) National loan scholarship is awarded by the Government of Orissa to the deserving student.
- (c) Loan stipend is sanctioned by the Government of Orissa, Education of Youth Service (L.S.F.) Department.
- (d) Post-matric scholarship is awarded by the Harijan Tribal Welfare Department, Government of Orissa to the S.C. and S.T. student during the study period.
- (e) Institution scholarship is awarded by the Institute to the best student of each branch of degree & MCA.
- (f) National scholarship to the children of primary/secondary school teachers is awarded by the Government of Orissa.
- (g) Financial assistance to the children of ex-service personnel is awarded by the Govt. of Orissa.
- (h) Free studentship will be allowed exempting tuition fees to some student. Only 2nd, 3rd & 4th year B.Tech. students limited to 50% of the total strength. Informations regarding the terms and conditions along with associated rules governing the award of above scholarship, stipends are available in the academic section of the Institute.

TUITION FEE WAIVER SCHEME FOR ECONOMICALLY BACKWARD MERITORIOUS TO STUDENTS

As per Government of Orissa Industries Deptt Notification No. 8412/I dated 22nd June, 2011 Tuition Fee Waiver Scheme has been introduced at the Institute based on AICTE guidelines for economically backward meritorious students to promote technical education. This will be limited to maximum 5 percent of sanctioned intake per course and admission will be taken up by the State Government designated admission Authority(JEE Committee/DET Committee).Under this scheme sons and daughters of parents whose annual income is less than Rs. 2.50 lakhs from all

sources shall only be eligible for seats under this scheme. The tuition fees will be exempted and the admitted students are to pay other requisite fees as per the fees structure of the Institute. The scheme is applicable for only natives of Orissa and the candidates seeking admission under this scheme shall have to produce the income certificate issued from the concerned Tahasildar.

B. 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 show 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 resulting to indiscipline and bad

conduct in any sphere of life in the institute misbehavior towards the staff 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 if found guilty.

3. The students once restricted, expelled 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 him as decided by the institute admission.

4. Unauthorised & mass absence from classes (both theory and sessional) and examination (both university state council and institute) will be treated as indiscipline and action benefiting to the situation will be taken. Students found persuading others for the above will also be treated as being indulged in the indisciplinary activities.

5. Unsatisfactory progress in the studies, default in payment of institute fees 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 restriction of students found involved in the matter shall be reported to the parents and the students will be immediately handed over to law and order authorities.

7. Duplicating the signatures of the institute authorities highly objectionable and if any student found involved in such activities will be dealt with severely.

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.

- (a) ILL treatment or disorderly behaviour to the staff of the institute or the fellow students.
- (b) Unsatisfactory progress in the studies.
- (c) Adoption of unfair means in the institute, university and state council examination.
- (d) Membership in the clubs and associations outside the institute or attending the unauthorised meetings.
- (e) Inviting outside elements to the institute without permission of the institute authorities.
- (f) Unauthorised absence from the class examination and test.
- (g) Default in payment of institute/Hostel fees.
- (h) Attempt or persuading others to attempt towards boycott or postponement of examination and test.
- (i) 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.
- (j) 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 strigent 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.

C. STUDENTS OBLIGATION

Students are required to equip themselves with books, instrument box with other drawing material viz., the drafters, set squares, calculator or other stationary.

Use of the institute blazer is compulsory. The blazer colour is z-blue and tie colour is maroon. Students must come to the institute with uniform dress till the last semester. Attendance of class /Library with uniform dress is compulsory. The dress code sample colour is given below. Dupatta colour is same as Salwar.

Railway concession are issued to the students for going home or to the training place and back only during vacation.

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. The identity card should be revalidated every year.

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.

A bonafide student of the institute must keep his/her identity card with him/her whenever he/she is in the institute or campus of institute.

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

D. HOLIDAYS LIST FOR THE CALENDER YEAR -2010

<u>Month</u>	<u>Date</u>	<u>Day</u>	<u>Description</u>	<u>No. of Days.</u>
January	01	Friday	New Years Day	01
	20	Wednesday	Saraswati Puja	01
	23	Saturday	Netaji Jayanti	01
	26	Tuesday	Republic Day	01
February	12	Friday	Maha Shivaratri	01
	27	Saturday	Birthday of Prophet Mohammed	
March	01	Monday	Holi	01
	24	Wednesday	Sri Ram Navami	01
April	01	Thursday	Utkal Divash	01
	02	Friday	Good Friday	01

	14	Wednesday	Mahavisuab Sankranti	01
May	17	Monday		
		to	Summer Vacation	30+4(Sundays)
June	19	Saturday		
July	13	Tuesday	Ratha Yatra	01
August	24	Tuesday	Rakhi Purnima	01
September	01	wednesday	Janmastami	01
	10	Friday	Id-UI-Fitre	01
	11	Saturday	Ganesh Puja	01
	17	Friday	Biswakarma Puja	01
October	02	Saturday	Gandhi Jayanti	01
	07	Thursday	Mahalaya	01
	13	Wednesday		
		to	Durga Puja Holiday	10+1 (Sundays)
	23	Saturday		
November	05	Friday	Kali Puja	01
	17	Wednesday	Id-UI-Zuha	01
	29	Monday	Prathamastami	01
December	17	Friday	Moharam	01
	25	Saturday	X-Mas Day	01

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Holidays fall on Sundays

Dola Purnima	-	28.02.2010	-	01 day
Independence Day	-	15.08.2010	-	01 day
Nuakhai	-	2.09.2010	-	01 day

**E. BIJU PATNAIK UNIVERSITY OF TECHNOLOGY, ORISSA
ROURKELA
PROVISIONAL ACADEMIC CALENDER - 2010-2011
B.TECH / B.ARCH / B.PHARM / MCA / B.HMCT PROGRAMMES**

	Events	1st	3rd	5th	
1.	Registration	09.08.2009-14.08.2010	19.07.2010-24.07.2010	12.07.2010-17.07.2010	01.07
2.	Classes Start	09.08.2010	19.07.2010	12.07.2010	
3.	Class Test-1	13.10.2010-18.10.2010	23.08.2010-28.08.2010	09.08.2010-14.08.2010	09.08
4.	Online Mark Entry (by the Colleges)	28.09.2010-04.10.2010	09.08.2010-16.08.2010	24.08.2010-30.08.2010	24.08
5.	Class Test-2	18.10.2010-23.10.2010	27.09.2010-05.10.2010	13.09.2010-18.09.2010	13.09
6.	Online Mark Entry (by the Colleges)	03.11.2010-09.11.2010	12.10.2010-18.10.2010	28.09.2010-04.10.2010	28.09
7.	Class Test-3	22.11.2010-27.11.2010	08.11.2010-13.11.2010	25.10.2010-30.10.2010	25.10
8.	Online Mark Entry (by the Colleges)	07.12.2010-13.12.2010	23.11.2010-29.11.2010	03.11.2010-09.11.2010	03.11
9.	Closing Date of Instruction	10.12.2010	02.12.2010	13.11.2010	
10.	End Semester Examination	13.12.2010-24.12.2010	06.12.2010-24.12.2010	15.11.2010-27.11.2010	08.11
	Winter Break	25.12.2010-02.01.2011	25.12.2010-02.01.2011	28.11.2010-05.12.2010	28.11

The class test marks and lab./sessional marks are to be sent by On-line process.

1. Percentage of attendance shall be calculated based on total no. of classes available during the period of starting and closing date of

instruction.

2. The classes must be conducted six days in a week as per academic calendar.
3. The colleges declaring sine die/closure shall intimate the reason to the University immediately. The Colleges shall conduct required number of classes/hours for any subject as per syllabi before closing of the instruction. If any institute fails to complete the classes due to unforeseen circumstances they must take necessary steps to compensate for those classes with an intimation to the University.
4. Any deviation from above will be treated seriously and action deemed fit would be initiated.

F. INSTITUTE WORKING HOURS

	From	To
Week Days	8.00 A.M.	12.10 Nonn
	2.00 P.M.	4.30 P.M.
Saturday	8.00 A.M.	1.00 P.M.
From 1st 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.

G. IMPORTANT TELEPHONES

Talcher STD Code No.- 06760*

Sarang STD Code No.- 06768#

Telephone	Office	Residence
Director	240371*	240513, 240516*
P.A. to Director	240371 (Extn)*,06768267086	267038#
Dean (Aca/Exam)	9861414967 (M)	
Dean (Students Welfare)	9861034812 (M)	
Dean (SRIC)	9861210510 (M)	
Registrar	240335*,06768267119	9437419160(M)
Dy. Registrar	240518*,06768267027	9437728608 (M)
Accounts Officer	240524*	9437136819 (M)
Medical Officer	06768211404	9437859746 (M)
H.O.D., Civil Engg.	240538*	9861272371(M)
H.O.D., Elect. Engg.	240539*	9861414967(M)
H.O.D., Mech. Engg.	240540*	9861190444(M)
H.O.D., Comp. Sc. Appls.	240521*	9861414972(M)
H.O.D., Chem. Engg.	240573*	9437211582 (M)
H.O.D., Mett. & Material Engg.	240588*	9861034812(M)
Prof. Trg. & Placement	240542*	9437137760 (M)
Workshop Supdt.	06768-211373	267048#
Warden of Hostels		9861441728 (M)
Supdt. Bhaskar Bhawan		241598*, 9437166989
Supdt. Aryabhatta Bhawan West Block		9861004751(M)
East Block		—————
Supdt. Agni Bhawan		242053*, 9861320772 (M)
Supdt. Rohini Bhawan		241308*, 9438149349 (M)
Supdt. Akash Bhawan		9437528149
Supdt. Viswakarma Bhawan		-do-
Estate Er.	06768-211033	9861192635 (M)
Guest House	240519*	
FAX 240544*	06768 -267128	