Profile

MSME Tool Room-Bhubaneswar (Central Tool Room & Training Centre, Bhubaneswar) within its 27 years of existence today stands as the premier Tool Room & Training Centre in India. The organization is established under the Technical Co-operation programme between Government of India and Denmark as a Govt. of India Society. The management of affairs of the centre rests with the governing council constituted by Govt. of India. Additional Secretary & Development Commissioner (MSME), Govt. of India, is the President of the Society & Chairman of the Governing Council.

MSME Tool Room- Bhubaneswar is on the way of achieving its set-goal with its extension centre at Rayagada (Border of Andhra Pradesh) & Kalinga Nagar (Jajpur), Odisha. It has set the benchmark among all the Tool Rooms & Training Centres under the Ministry of MSME for its quality industry-oriented training programmes in the field of Tool Design & manufacturing, Quality Assurance, Precision Component Manufacturing for Automobile & Aerospace Industries, CAD/CAE/CAM/CNC Technology/Hardware Networking/ VLSI/ Industrial Automation (PLC) & Robotics/ Structural Design & Analysis for Different levels & disciplines Trainees.

In pursuit of excellence, the Tool Room has been awarded with ISO 9001, AS 9100, ISO 14001, ISO 29990 and OHSAS 18001 Certifications.

Our Activities

- **PRODUCTION**
  - TOOL DESIGN & MANUFACTURING
  - TOOL TRYOUT & PART PRODUCTION
  - QUALITY ASSURANCE
  - AEROSPACE MANUFACTURING
- **TRAINING**
  - CAD / CAM / CAE
  - STRUCTURAL DESIGN & ANALYSIS
  - INDUSTRIAL AUTOMATION & ROBOTICS
  - VLSI & EMBEDDED SYSTEM

WE CONDUCT TAILOR MADE COURSES FOR

1. Courses For Foreign Nationals
2. Courses For Industrial Professionals
3. Induction Training For Newly Recruits
4. Courses For Technical Institute
5. Training of Trainers of Technical Institutes
6. Modular Training Programme

Training at a Glance

- Conducted Training Programme from School drop out to B.Tech pass out different level & different discipline students.
- Trained more than 31,000 trainees in last financial year.
- CTTC, Bhubaneswar offers IGNOU certified & Hero authorized Hero Mechanic Programme for 8th pass students.
- CTTC, Bhubaneswar in collaboration with Samsung, India offers Advanced Repair & Industrial Skill Enhancement Programmes for various categories.
- We also offer Entrepreneurship Skill Development Programme under ESDP scheme of Govt. of India for skill enhancement in the sectors of CNC, CAD/ CAM, PLC, VLSI etc. for the students of 10th class onwards
- We also offer various skill development courses for the North East Region Youth under DONOR Programmes of Ministry of MSME.
- Giving the vocational direction to Youth for Development of Technical Skill
- Gainful employment in Hi Tech areas
- Entrepreneurial Skill with Techno – Commercial Knowledge
- Professional Ethics, Work Culture & Personality Development
- Awareness towards the Nation, Society & Environment

Training Achievements

- Received award of “Excellent Institute in Skill Development Programmes in ODISHA” in 2nd National Odisha Education Summit & Awards 2015
- Represented India in CNC Milling in “World Skill Competition 2015” held at Sao Paulo, Brazil in Aug’2015.
- Best Extension Centre model among all Technology Centre at Rayagada.
- Established CTTC brand in the country for Summer Vacation Training for Degree/Diploma Engineering Graduates.

For Details of other courses go to the following pages...
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<thead>
<tr>
<th>COURSE NAME</th>
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<td>Diploma in Tool &amp; Die Making</td>
<td>DTDM</td>
<td>4 Years</td>
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<tr>
<td>Diploma in Mechatronics</td>
<td>DIM</td>
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<tr>
<td>ITI Machinist</td>
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<tr>
<td>ITI Fitter (Course at Kalinga Nagar Extension Centre)</td>
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<td>Condensed Course in Tool &amp; Die Making</td>
<td>CTDM</td>
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<tr>
<td>Certificate Course in CNC Turning &amp; Milling</td>
<td>CCTM</td>
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**COURSES FOR UNDER MATRIC**

| Certificate Course in Machine Operation | CCMD | 1 Year | 8 |

**COURSES FOR ITI STUDENTS**

| Certificate Course in Advance Machining | CCAM | 1 Year | 9 |
| Advance Certificate Course in Machine Maintenance | ACCMM | 1 Year | 9 |
| Advanced Certificate Course in CNC Machining | ACCCN | 1 Year | 9 |
| Advanced Certificate Course in Welding Technology | ACDWT | 1 Year | 9 |
| Certificate Course in Machining | CCM | 6 Months | 9 |
| Certificate Course in Fitting & Rigging | CCRF | 6 Months | 9 |

**COURSES FOR DIPLOMA IN MECHANICAL ENGG. OR EQUIVALENT**

| Post Diploma in Tool & Die Making | PDTDM | 1 Year | 11 |
| Post Diploma in CAD/CAM | PDTCM | 1 Year | 11 |
| Master Certificate Course in Tool Design | MCTD | 6 Months | 12 |

**COURSES FOR DIPLOMA IN ELECTRICAL/ ELECTRONICS ENGG. OR EQUIVALENT**

| Advanced Diploma in Machine Maintenance & Automation | ADMM | 6 Months | 14 |
| Advanced Embedded Technology | AET | 6 Months | 14 |
| Post Diploma in Industrial Automation & Robotics | PIDAR | 1 Year | 15 |
| Certificate Course in Electrical Equipment Repair & Maintenance | CCEPM | 6 Months | 15 |

**COURSES FOR DIPLOMA IN MECHANICAL, ELECTRICAL, ELECTRONICS, ENGG. OR EQUIVALENT**

| Master Certificate Course in Automation & Process Control | MCCAPC | 6 Months | 16 |
| Master Certificate in Mechatronics | MCMC | 6 Months | 16 |

**COURSES FOR DIPLOMA IN MECHANICAL, ELECTRICAL, ELECTRONICS ENGG. OR EQUIVALENT**

| Post Diploma in Mechatronics | PDIM | 1 Year | 17 |
| Post Diploma in Structural Analysis & Project Management | PDSPM | 1 Year | 17 |
| Advance Diploma in Structural Design & Analysis | ADSDA | 6 Months | 18 |

**COURSES FOR ANY GRADUATE**

| Advance Certificate Course in Inspection & Quality Control | ACCIQ | 6 Months | 19 |
| Advance Diploma in Computer Hardware & Networking Management | ADCHNM | 6 Months | 19 |
| Advanced Certificate Course in Software Application | ACCSA | 6 Months | 19 |

**LONG / MEDIUM TERM TRAINING PROGRAMMES SCHEDULE FOR 2018 - 2019**

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**DATE | MAY 2018**

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* Special Internship Training for B-Tech final year students.
CAREER ORIENTED COURSES OF DIFFERENT LEVELS & DIFFERENT DISCIPLINES

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<th>COURSE NAME</th>
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<tr>
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<td>Auto CAD (Mechanical)</td>
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<td>MASTER CAM</td>
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<td>Creo</td>
<td>1 Month</td>
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<td>SOLIDWORKS</td>
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<td>ZNC Milling/Turning</td>
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<td>Lab View</td>
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<td>Electrical machine Lab</td>
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<td>3Ds Max</td>
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<td>MAT LAB</td>
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<td>NET</td>
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<td>Soft Skill</td>
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<td>LED, LCD, Plasma TV, Home Theatre (A-V)</td>
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FOR DETAILS OF COURSE OBJECTIVE, CONTENT AND COURSE FEE FOLLOW RESPECTIVE PAGES.

TRAINING PROGRAMMES

COURSES FOR HSC / SSLC STUDENTS

1. **DIPLOMA IN TOOL & DIE MAKING (DTDM) - [AICTE Approved]**

   **Objectives:** After completion of the course, the Trainees will be able to design & manufacture different types of tools & dies using CAD/CAM software & all kind of conventional & CNC machine.

   **Duration:** 4 Years

   **Course Content:** Equivalent to Diploma in Mechanical Engg. With TOCIL/Mould/Carving/Designing & Manufacturing.

   **Mode of Selection:** Selection will be based on all India level Entrance Examination

   **Course Starts on:** July

   **Course Fee:** ₹19,000/- (per semester)

2. **DIPLOMA IN MECHATRONICS (DIM) - [AICTE Approved]**

   **Objectives:** After completion of the course, the Trainees will be able to work in different types of mechanical as well as electronics machineries and can be able to manufacture different mechatronics components.

   **Duration:** 3 Years

   **Course Content:** Combined subjects of Mechanical, Electrical & Electronics

   **Mode of Selection:** Selection will be based on all India level Entrance Examination

   **Course Starts on:** July

   **Course Fee:** ₹19,000/- (per semester)

3. **ITI MACHINIST - [NCVT Approved]**

   **Duration:** 2 Years

   **Course Content:** As per NCVT Syllabus

   **Mode of Selection:** Selection will be based on HSC mark

   **Course Starts on:** July

   **Course Fee:** ₹28,000/- (per year)

   **Course Location:**
   - For Machinist - CTTC, Bhubaneswar
   - For Fitter - CTTC, Kalinganagar, Jaipur
   - For Electrician - CTTC, Kalinganagar, Jaipur

4. **ITI FITTER - [NCVT Approved]**

5. **ITI ELECTRICIAN - [NCVT Approved]**
6. CONDENSED CERTIFICATE COURSE IN TOOL & DIE MAKING (CTDM) - [NSQF Level : 5]

Objectives: After completion of the course, the trainees will be able to handle all types of machine as well as can manufacture different types of tool & die.

Job Role: Skilled Technician/Tool & Die Maker

Duration: 1 Year


Mode of Selection: First come first serve basis

Course Starts on: March, August

Course Fee: ₹ 66,000/-

1. CERTIFICATE COURSE IN CNC TURNING & MILLING (CCTM) - [NSQF Level : 4]

Objectives: After completion of the course, the trainees will be able to handle all tool room machine (Conventional & CNC Machines) manufacture any type of job according to the demand, independently.

Job Role: CNC Operator

Duration: 1 Year


Mode of Selection: First come first serve basis

Course Starts on: August, November & February

Course Fee: ₹ 32,000/- (In two instalments)

TRAINING PROGRAMMES

COURSES FOR ITI STUDENTS

1. CERTIFICATE COURSE IN ADVANCED MACHINING (CCAM) – For ITI Fitter - [NSQF Level : 5]

Objectives: After completion of the course, the Trainees will be able to impart new skill in Advance Machining & able to do work in Demand, independently in CNC machining area.

Job Role: Skilled Conventional and CNC Machine Operator

Duration: 1 Year

Course Content: Semester-1: Production Technology, AutoCAD, Engineering Drawing, Metrology, Communication Skill
Semester-2: Advance Conventional Machining, CNC Lathe, CNC Milling, Non-Conventional Machining, Engineering Drawing, Material Technology, Entrepreneurship, In-plant Training

Mode of Selection: Selection will be based on merit list prepared to 40% mark of HSC + 60% of ITI mark

Course Starts on: February, August & October

Course Fee: ₹ 32,000/- (In two instalments)

2. ADVANCE CERTIFICATE COURSE IN MACHINE MAINTENANCE (ACCMM) – For ITI Fitter/Electrician - [NSQF Level : 5]

Objectives: After completion of the course, the Trainees will be able to impart new skill in Advance Machining & able to do work in Demand, independently in CNC machining area.

Job Role: Maintenance Technician

Duration: 1 Year

Course Content: Semester-1: Conventional milling, Conventional turning, Fitting & bench work, Use of safety practice in industry, Work efficiently at workplace, Computer fundamentals & AutoCAD, Basic Electricals & Transmission control, Preventive & Breakdown Maintenance of Conventional Machine tools like Lathe, Milling, Grinding, Drilling, etc.
Semester-2: Programmable Logic Controller (PLC), Air Compressor, Pumps, DG Set, Uninterrupted Power Supply, CNC Machines

Mode of Selection: Selection will be based on merit list prepared to 40% mark of HSC + 60% of ITI mark.

Course Starts on: February, August & October

Course Fee: ₹ 32,000/- (In two instalments)

3. ADVANCE CERTIFICATE COURSE IN CNC MACHINING (ACCM) – For ITI Machinist & Fitter - [NSQF Level : 5]

Objectives: After completion of the course, the trainees will be able to handle all tool room machine (Conventional & CNC Machines) manufacture any type of job according to the demand, independently in CNC machining area.

Job Role: CNC Operator

Duration: 1 Year

Course Content: CNC Programming & CNC Machining, Engineering Metrology and Quality Assurance- THEORY & PRACTICAL, Production Planning & Controls, Computer Aided Manufacturing (Master Cam), Advance Cam (UG CAM – 3 Axis And 5 Axis), Total quality management, Fundamentals of Metal Cutting Tool, Entrepreneurship, Project Work

Mode of Selection: Selection will be based on merit list prepared to 40% mark of HSC + 60% of ITI mark.

Course Starts on: March, September

Course Fee: ₹ 34,000/- (In two instalments)
TRAINING PROGRAMMES

COURSES FOR DIPLOMA IN MECHANICAL/ PRODUCTION/ AUTOMOBILE OR EQUIVALENT ENGG.

1. POST DIPLOMA IN TOOL & DIE MAKING (PDTDM) - [NSQF Level : 6]

- **Objectives:** After completion of the course, the trainees will be able to manufacture different tools & dies using Tool room machines, CNC technology and CAM software.
- **Job Role:** Tool Room Engineer
- **Duration:** 1 Year
- **Mode of Selection:** First Come First Serve Basis
- **Course Starts on:** July, September, January & March
- **Course Fee:** ₹54,000/- (In three instalments)

2. POST DIPLOMA IN CAD/ CAM (PDCC) - [NSQF Level : 6]

- **Objectives:** After completion of the course, the trainees will be able to do design & analysis of different engineering application through latest CAD/CAE software & simultaneously to operate CNC machines by preparing programme through latest CAM software.
- **Job Role:** CAD CAM Technologist
- **Duration:** 1 Year
- **Course Content:** Engineering Drawing, Computer Fundamentals and Auto Cad, Master CAM, CNC Part Programming & Machine Practice, Solid works, Unigraphics (NX), Creo Parametric, CATIA, Work NC, Finite Element Analysis (FEA), Reverse Engineering, Safety & Maintenance, Basic Engineering Concepts, Entrepreneurship and Managerial Skills, Project
- **Mode of Selection:** First Come First Serve Basis
- **Course Starts on:** September & March
- **Course Fee:** ₹54,000/- (In three instalments)

3. Advanced Certificate Course in Welding Technology (ACCWT) – [NSQF Level : 5]

- **Objectives:** After completion of the course, the trainees will be able to operate Conventional Tool Room Machines
- **Job Role:** Maintenance Technician & Rigger
- **Duration:** 6 Months
- **Course Content:** Maintenance of Industrial equipment (Hydraulic, Pneumatic, Mechanical & Electrical), Lifting equipment technology, Fitting, Machining, Hydraulic, Pneumatic, Fitting, Maintenance of gear, Belt, Pump
- **Mode of Selection:** First come first serve basis
- **Course Starts on:** January, July, August, November
- **Course Fee:** ₹22,000/-

4. Certificate Course in Machining (CCM) – [NSQF Level :5 ]

- **Objectives:** After completion of the course, the trainees will be able to operate Conventional Tool Room Machines
- **Job Role:** Skilled Technician/ Machinist
- **Duration:** 6 Months
- **Course Content:** Production Technology, Engg. Drawing, Engg. Metrology, Fundamentals of Computer, AutoCAD, Soft Skill
- **Mode of Selection:** First come first serve basis
- **Course Starts on:** January, March, September
- **Course Fee:** ₹22,000/-

5. Certificate Course in Fitting & Rigging (CCFR)

- **Objectives:** After completion of the course, the trainees will be able to operate Conventional Tool Room Machines
- **Job Role:** Maintenance Technician & Rigger
- **Duration:** 6 Months
- **Course Content:** Fitting, Machining, Hydraulic, Pneumatic, Maintenance of gear, Belt, Pump
- **Mode of Selection:** First come first serve basis
- **Course Starts on:** January, July, August, November
- **Course Fee:** ₹22,000/-

TRAINING PROGRAMMES

COURSES FOR DEGREE IN MECHANICAL/ PRODUCTION/ AUTOMOBILE OR EQUIVALENT ENGG.

1. POST GRADUATE DIPLOMA IN TOOL DESIGN & CAD/CAM (PGDTD) – [NSQF Level : 8]

- After completion of the course, the trainees will be able to design & analyse different type of tools & other engineering application (through latest CAD/CAE software) simultaneously they can manufacture different type of tool & precision components using modern manufacturing techniques through latest CAM Software.
- Tool Designer or CAD CAM Engineer
- 1 Year (8Hrs./Day)
- First Come First Serve Basis
- July, November & February
- ₹ 60,000/- (in four instalment)

2. POST GRADUATE IN AEROSPACE MANUFACTURING (PGAM) – [NSQF Level : 8]

- Participants will be able to work in Conventional, CNC machines, Assembly & fitting area, Work in sheet metal industries / plastic industries. Type of tools, maintenance and trouble shooting of problem
- Entrepreneur / Engineer (Production/Process Planing & Quality Control)
- 1 Year (3 Months in Training Dept. & 9 Months in Production Dept.)
- First Come First Serve Basis
- July, November & February
- ₹ 60,000/- (in three instalment)
4. MASTER CERTIFICATE COURSE IN CAD/CAM (MCC) – [NSQF Level : 6]

**Objectives**
After completion of the course, the trainees should be able to fit to work in the Electrical Engineering and Electronics Engineering automation field as well as can be able to work in industrial robots.

**Job Role**
Automation Supervisor & Robotic Engineer

**Duration**
1 Year (6hrs./Day)

**Course Content**
- To have broad knowledge of Automation Techniques, Robotics and Automation systems, Drives, Hydraulics & Pneumatics. To apply Automation and Robotics principles for solutions to the specific problems. To use software for generating solutions in PLC, Hydraulics & Pneumatics. To work as individual & member of inter discipline team in the management supervision. To communicate effectively. To use mathematical skills for solving specific problems. To work on project & have good data collecting, organizing ability. To observe & follow safety. Develop entrepreneurship skills. Generate and update customizable reports and data in presentable form, interpret drawings, draw inferences and work on other technical details. Explain energy flow in electrical, pneumatic and hydraulic sub-systems.

**Modes of Selection**
First Come First Serve Basis

**Course Starts on**
First Come First Serve Basis

**Course Fee**
₹ 60,000/- (in three instalments)

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1. ADVANCED DIPLOMA IN MACHINE MAINTENANCE & AUTOMATION (ADMMA) – [NSQF Level : 6]

**Objectives**
After completion of the course, the trainees should be able to carry out design, operation, maintenance, troubleshooting & repair of modern machine tools and equipment.

**Job Role**
Technical Assistant and Maintenance Engineer

**Duration**
6 Months

**Course Content**
- Basic safety regarding use of electricity, fundamentals on hand tools, Basic electrical and electronics, Domestic and industrial wiring, Repairing of home appliances, Repairing of home appliances, Repairing of air conditioner and refrigerator, Repairing of water purifier and geyser, Repairing, winding and maintenance of motor and pump, Soft Skill.

**Modes of Selection**
First Come First Serve Basis

**Course Starts on**
First Come First Serve Basis

**Course Fee**
₹ 34,000/- (In two instalments)

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2. ADVANCED EMBEDDED TECHNOLOGY (AET) – [NSQF Level : 6]

**Objectives**
After completion of the course, the trainees should be able to work on embedded hardware and software also design printed circuit board.

**Job Role**
Junior Embedded Engineer / PCB Designer

**Duration**
6 Months (6 hrs. /day)

**Course Content**
- PIC Microcontroller, Embedded C/C++, Communication protocol & Implementation, Robotics- Interfacing with Motors and Sensors, ARM-Advanced RISC Machine (LPC2148), Concept of RTOS, VLSI Design with FPGA/CLD, PCB Designing, Python Programming on Raspberry Pi, Project Work

**Modes of Selection**
First Come First Serve Basis

**Course Starts on**
First Come First Serve Basis

**Course Fee**
₹ 34,000/- (in two instalments)

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3. CERTIFICATE COURSE IN ELECTRICAL EQUIPMENTS, REPAIRING & MAINTENANCE (CCERM) – [NSQF Level : 6]

**Objectives**
After completion of the course, the Trainees will be able to work with electrical wiring high voltage motor and work on estimation & costing.

**Job Role**
Technical Assistant and Maintenance Engineer

**Duration**
6 Months

**Course Content**
- Basic safety regarding use of electricity, fundamentals on hand tools, Basic electrical and electronics, Domestic and industrial wiring, Repairing of home appliances, Repairing of home appliances, Repairing of air conditioner and refrigerator, Repairing of water purifier and geyser, Repairing, winding and maintenance of motor and pump, Soft Skill.

**Modes of Selection**
First Come First Serve Basis

**Course Starts on**
First Come First Serve Basis

**Course Fee**
₹ 34,000/- (In two instalments)
TRAINING PROGRAMMES

COURSES FOR DEGREE IN ELECTRICAL OR ELECTRONICS ENG.

1. MASTER CERTIFICATE COURSE IN AUTOMATION & PROCESS CONTROL (MCCAPC) – [NSQF Level : 7]

Objectives: After completion of the course, the trainees should be able to work in power plant, packaging industries, FMCG area as well as can work in process automation area.

Job Role: Entrepreneur / Process Control / Automation Engineer

Duration: 6 Months (6hrs./day)

Course Content: Electrical Hardware Logic Control, Electrical Machines, Sensor and transducer, Pneumatics & Hydraulics system, Programmable Logic Controller, Embedded System, Machine Maintenance, SCADA & HMI, TIA- Portal, Distributed control system by PCS-7, Lab view, Robotics, AUTOCAD Electrical, Communication Skill

Mode of Selection: First Come First Serve Basis

Course Starts on: March, May, July, September, December

Course Fee: ₹ 36,000/- (in two instalments)

2. MASTER CERTIFICATE COURSE IN MECHATRONICS (MCCM) – [NSQF Level : 7]

Objectives: After completion of the course, the trainees will be able to work in area of mechatronics, robotics and automation.

Job Role: Entrepreneur / Process Control / Automation Engineer

Duration: 6 Months

Course Content: PLC, Hydraulics & Pneumatics, Mechatronics Principles, Automation Techniques, Mechatronics Systems, Drives & Sensors, Data actuation system (lab view), VLSI, Basic Electronics, Electrical Machine lab, SCADA, ECAD, IOT, Soft Skill

Mode of Selection: First Come First Serve Basis

Course Starts on: March, May, July, September, December

Course Fee: ₹ 36,000/- (in two instalments)

TRAINING PROGRAMMES

COURSES FOR DIPLOMA/ DEGREE IN MECHANICAL/ ELECTRICAL/ ELECTRONICS

1. POST GRADUATE DIPLOMA IN MECHATRONICS (PDIM) – [NSQF Level : 6]

Objectives: After completion of the course, the trainees will be able to work in area of mechatronics.

Job Role: Mechatronics Engineer / Team Leader

Duration: 1 Year

Course Content: Describe the techniques that are used to design a mechatronics process

- Analyze different quality control Parameters and conduct audits for different quality standards
- Analysis of the electrical circuits, magnetic circuits, circuit elements, equipment’s and accessories, type of sensors, and derives
- Design and manage instrument and sensor networks and associated synchronization problems
- List the technical specifications of high-sensitivity and high frequency measurement equipment, Power devices for engineering tasks
- Generate and update customizable reports and data in presentable form, interpret drawings, draw interferences and workout other technical details
- Design circuits with different elements to meet the functionality requirement of products
- Identify, formulate, and develop solution for maintenance problems
- Prepare conceptual design & test against standards & parameters
- Development of modern integrated environments for microcontroller programming and their features for simulation, testing and debugging
- Develop the creative solutions using different programming techniques for mechatronics applications, including Input Output interface and communication peripherals
- Explain energy flow in electrical, pneumatic and hydraulic sub-systems
- Develop Programmes to actuate a physical system
- Work effectively with others
- Use basic Health and safety practices at work place
- Develop entrepreneurship skills
- Demonstrate the intellectual independence by completing the project work in Mechatronics.

Mode of Selection: First Come First Serve Basis

Course Starts on: September

Course Fee: ₹ 54,000/- (In three instalment)
TRAINING PROGRAMMES
COURSES FOR DIPLOMA / DEGREE IN CIVIL ENGG.

1. POST DIPLOMA IN STRUCTURAL DESIGN & PROJECT MANAGEMENT (PDSPM) – [NSQF Level : 7]

Objectives: After completion of the course, trainees will be able to know different types of Structural design & Analysis in detail.

Job Role: Site Engineer / Site Supervisor / Project Assistant

Duration: 1 Year

Course Content: Auto CAD in civil, STAAD –Pro, 3Ds max, Revit architecture, Adobe Photoshop, GPS, MS office, Total station, Strength of material, Estimating & costing, Engineering drawing, Soft Skill, DGPS, Survey, Auto Level

Mode of Selection: First Come First Serve Basis

Course Starts on: July

Course Fee: ₹ 22,000/- (In three instalments)

2. ADVANCED DIPLOMA IN STRUCTURAL DESIGN & ANALYSIS (ADSDA) – [NSQF Level : 6]

Objectives: After completion of the course, trainees will be able to know different types of Structural design & Analysis

Job Role: Site Engineer / Site Supervisor / Project Assistant

Duration: 06 Months

Course Content: Auto CAD in Civil, STAAD –Pro, 3Ds Max, Revit Architecture, Adobe Photoshop, Auto level, GPS, MS office, Total station, Strength of material, Estimating & costing, Engineering drawing, Soft Skill

Mode of Selection: First Come First Serve Basis

Course Starts on: January, March, July & September

Course Fee: ₹ 34,000/- (In two instalments)

TRAINING PROGRAMMES
COURSES FOR ANY GRADUATE

1. ADVANCE CERTIFICATE COURSE IN INSPECTION & QUALITY CONTROL (ACCIQ) – [NSQF Level : 5]

Objectives: During training, trainees will be able to work on Quality Control & Inspection.

Job Role: Quality Control Inspector / Job Inspector

Duration: 6 Months

Course Content: Engineering Drawing, Engineering Metrology, Workshop Calculation, Total Quality Management, AutoCAD, Master CAM, NX (UNIGRAPHICS), Inspection (DMM), Employability skill, Inspection & Quality Control - On Job Training

Mode of Selection: First Come First Serve Basis

Course Starts on: February & August

Course Fee: ₹ 22,000/- (In two instalments)

2. ADVANCED DIPLOMA IN COMPUTER HARDWARE NETWORKING & MANAGEMENT (ADCHNM) – [NSQF Level : 6]

Objectives: Prepare trainees who will be successful & professional in industry, government, academic, entrepreneurial pursuit & consulting firms & apply knowledge of Computer Science.

Job Role: Hardware & Network Associates / System Service Engineer

Duration: 6 Months (8 hrs./day)

Course Content: Power Supply, PC Architecture, Software Installation, up gradation & Maintenance, Network Essential, setup & management, Network management & server configuration, LINUX management & network configuration, Basic Electronics, Office Package, Communication Skill

Mode of Selection: First Come First Serve Basis

Course Starts on: January, March, April, July, September, November & December

Course Fee: ₹ 34,000/- (In two instalments)

3. ADVANCE CERTIFICATE COURSE IN SOFTWARE APPLICATION (ACCSA)

Objectives: An ability to identify, critically analyse, formulate & develop Computer applications.

Job Role: An ability to identify, critically analyse, formulate & develop Computer applications.

Duration: 6 Months (8 hrs./day)

Course Content: C programming, C++, Core Java, Oracle, html, CSS, Advance Java, Project Work.

Mode of Selection: First Come First Serve Basis

Course Starts on: August & December

Course Fee: ₹ 22,000/- (In two instalments)
TRAINING PROGRAMMES
SHORT TERM COURSES

COURSES FOR MECHANICAL/ PRODUCTION/ AUTOMOBILE OR EQUIVALENT ENGG.

1. AUTO CAD (MECHANICAL)
   - Creating Objects
   - Editing Objects
   - Layers, Colour & Linetype
   - Dimensioning & Tolerancing
   Duration : 1 Month (3hrs/ Day)
   Course Fee : ₹ 7,000/-

2. MASTER CAM
   - 2D Drafting
   - Wire Frame Modelling
   - Surface Modelling
   Duration : 1 Month (3hrs/ Day)
   Course Fee : ₹ 8,000/-

3. UNIGRAPHICS
   - Introduction to Unigraphics
   - Concept of Sketch & Constraint
   - Part Modelling (Solid & Surface)
   - Assembly
   Duration : 1 Month (3hrs/ Day)
   Course Fee : ₹ 8,000/-

4. CREO
   - Introduction to Creo
   - Sketcher & Constraint
   - Part Modelling
   Duration : 1 Month (3hrs/ Day)
   Course Fee : ₹ 8,000/-

5. CATIA
   - Sketcher & Constraint
   - Part Design
   - Wireframe & Surface Design
   Duration : 1 Month (3hrs/ Day)
   Course Fee : ₹ 8,000/-

6. HYPERMESH
   - Introduction to FEA & Hypermesh
   - Pre-processing
   - 2D Meshing, 3D Meshing
   Duration : 15 Days (3hrs/ Day)
   Course Fee : ₹ 8,000/-

7. SOLIDWORKS
   - Sketcher & Constraint
   - Part Design
   - Wireframe & Surface Design
   Duration : 1 Month (3hrs/ Day)
   Course Fee : ₹ 8,000/-
8. ANSYS
- Introduction to FEA & ANSYS
- Structural Analysis (Linear, Non Linear, Dynamic)
- Thermal Analysis (Steady State & Transient)
- Couple Field Analysis
  ** All the above content will be covered using latest APDL & Workbench version**
Duration : 15 Days (3hrs/Day)
Course Fee : ₹8,000/-

9. 3D Printing
- Introduction to Additive Manufacturing
- Comparison of Subtractive & Additive Manufacturing
- Classification of Additive Manufacturing
- New Technologies Used in the field of Additive Manufacturing
- Introduction to 3D Printing
- Technology Used & Advantage over Subtractive Manufacturing
- Demonstration of IdeaMaker
- Demonstration of 3D Printing Machine
- Demonstration of Metal 3D Printing Machine
- Working Procedure & Process Chain
- Post Processing Procedures
- Introduction to 3D Scanning
- Scan Data Creation & Scanning Methodology
Duration : 15 Days (3hrs/Day)
Course Fee : ₹8,000/-

TRAINING PROGRAMMES

COURSES FOR ELECTRICAL/ ELECTRONICS OR EQUIVALENT ENGG.

1. VLSI
- Introduction of VLSI
- Semiconductor Physics
- Analog/ Digital Electronics, EDA Tools
- CMOS & layout design using MICROWIND
- VHDL & Verilog HDL programming & simulation using XILINX & ALTERA QUARTUS
- Interfacing of PLDs (SPARAN, VIRETEX, CYCLONE)
- Analog circuit design and verification through FPAA using ANADIGM
- Basics of Microcontroller
- Project Work
Duration : 1 Month (3hrs/ Day)
Course Fee : ₹8,000/-

2. PLC
- Instrumentation in process industry
- Introduction of SCAD
- One line diagram & wiring guidelines
- PLC Hardware Components
- Power supply CPU
- I/O Communication
- Pneumatic & Electro Pneumatics
- Counter file handling
- SCADA Applications
- Application of Electrical Drivers
- PLC software timer
Duration : 1 Month (3hrs/ Day)
Course Fee : ₹8,000/-

3. ADVANCED EMBEDDED SYSTEM
- Introduction to Embedded Systems
- Assembly & Embedded ‘C’ Programming
- Addressing of 8051
- PIC18 & ARM 7 using RIDE
- PROTEUS, MPLAB, KEIL, & Crosswire
- VHDL Programming
- Interfacing of peripheral devices with 8051, p1C18 & ARM 7
- PCB Designing Robotics
- Project Work
Duration : 1 Month (3hrs/ Day)
Course Fee : ₹8,000/-
4. HYDRAULICS & PNEUMATICS

- Introduction to Pneumatic Principles
- Pneumatic Use & Industrial Application
- Pneumatic Values
- Symbols of Values & Method of Actuation
- Signal Processing Elements
- Pressure Regulators
- Pressure sequence value
- Time depend control value
- Exercises on pneumatic values & regulators
- Electro Pneumatic & Hydraulics

Duration : 1 Month (3hrs/ Day)
Course Fee : ₹ 8,000/-

5. SURYAMITRA

Objectives : After completion of the course, the Trainees will be able to install & maintain a stand-alone or grid connected photo voltaic power system.
Job Role : Skilled Technician
Duration : 3 Months (300 Hrs.)
Course Content : Basic Electricals, Semiconductor Physics, Soldering Technique, Basic Terminology of Solar System, Fundamental of Solar PV cell & Panel, Entrepreneurship, Soft Skill, Troubleshooting of Solar PV System
Mode of Selection : First come first serve basis
Course Fee : ₹ 12,000/-

1. AUTO CAD (CIVIL)

- Basic concept of Drawing
- Auto CAD 2D & 3D Building
- Inertial Design
- Working Drawing
- Steel Structure Detailed Drawing

Duration : 1 Month (3hrs/ Day)
Course Fee : ₹ 7,000/-

2. STAAD PRO

- Basic concept of 2D & 3D in Auto CAD
- Creating Geometry using different methods in X, Y, Z co-ordinates
- Defining about Beams, Column & Plates
- Support & Properties System
- Different Steel & Load Systems
- Analysis with concrete & steel

Duration : 1 Month (3hrs/ Day)
Course Fee : ₹ 8,000/-

3. 3Ds Max

- Introduction to 3Ds Max
- Plan Conversion from Auto CAD
- Usage of Standard Primitives, Compound Object, Shapes
- Copy, Move, Rotate & other Standard Modification tools
- Creation of Door, Window, Stair, Railing, AEC Wall, Foliage
- Material Library, Command Panel
- Interior Design Techniques
- Types of Camera & Light, Rendering & Exporting

Duration : 1 Month (3hrs/ Day)
Course Fee : ₹ 8,000/-

4. REVIT

- Introduction to REVIT
- Set up of Units & Element Properties
- Architectural Modelling
- Editing Tools & Managing Views
- Circulation Elements

Duration : 15 Days (3hrs/ Day)
Course Fee : ₹ 8,000/-

TRAINING PROGRAMMES
COURSES FOR CIVIL ENGG.
TRAINING PROGRAMMES
SHORT TERM COURSES
COURSES FOR ANY ENGG. STUDENTS/GRADUATES

1. MAT LAB
- Parallel Computing
- Math, Statics & Optimization
- Control System Design & Analysis
- Signal Processing & Communications
- Test & Measurement
- Code Generation & Verification
- Application Development
- Database Connectivity & Reporting
Duration : 15 Days (3hrs/Day)
Course Fee : ₹8,000/-

2. INTERNET OF THINGS (IOT)
- Introduction to IOT
- Physical & Logical Design of IOT
- IOT Enabling Technologies
- IOT Levels & Deployment Template
- Domain Specific IOTs
- M2M Communication
- IOT System Management
- Platform Design Methodology
- Cloud Computing
- Data Analytics of IOT
- Python
- Hands-on with Arduino, Raspberry Pi, Intel Edison
Duration : 1 Month (3hrs/Day)
Course Fee : ₹8,000/-

3. CORE JAVA
- Object oriented programming concepts
- Input & Output in JAVA
- Polymorphism
- Interface in JAVA
- Exception Handling
- SWING, Networking in JAVA
- JAVA Database Connectivity
Duration : 1 Month (3hrs/Day)
Course Fee : ₹5,500/-

4. ADVANCE JAVA
- JAVA Database Connectivity
- JAVA Server Pages (JSP)
- JAVA Standard Tag Library (JSTL)
- JAVA Transaction Service (JTS)
- JAVA Transaction API (JTA)
- JAVA MAIL, API, HTML, XML
- JAVA Script
- Mini – Projects Based on MVC Architecture
Duration : 1 Month (3hrs/Day)
Course Fee : ₹5,500/-

5. .NET
- C# .NET & VB.NET
- ASP
- XML & Web Services
Duration : 1 Month (3hrs/Day)
Course Fee : ₹5,500/-

6. PROGRAMMING IN 'C'
- C Tokens Control Statements
- Array
- Pointer
- String
- Pre Processor
- File
Duration : 1 Month (3hrs/Day)
Course Fee : ₹3,500/-

7. PROGRAMMING IN 'C++'
- Basic Syntax Control Statements
- Array
- Pointer
- String
- Class & Objective
- Constructor & Destructor
- Virtual Function
- Template
- Exception Handling
Duration : 1 Month (3hrs/Day)
Course Fee : ₹3,500/-
9. ENTREPRENEURSHIP DEVELOPMENT PROGRAMME

- Introduction to EDP
- Entrepreneurial Persons
- Entrepreneurial Communities
- Entrepreneurial Process
- What Does Entrepreneur Do?
- Entrepreneurship & Environment
- Business Terms
- Case Study on Business Secrets
- Steps in Planning New Facilities
- Selection of an appropriate form of Ownership Structure
- Search for Location
- Market Research
- Marketing Survey
- Barriers in Business
- Problem Solving Techniques

Duration: 1 Month (3hrs/ Day)
Course Fee: ₹3,000/-

10. LAPTOP MAINTENANCE

- Analog Electronics
- Type of Power Supply
- Identification of different parts of Laptop
- Block Diagram of Laptop & its Function
- Laptop Assembling & Disassembling
- Installation of Operating System Application & Software’s fault finding procedure of Laptop
- Common problem of different motherboard & its troubleshooting

Duration: 1 Month (3hrs/ Day)
Course Fee: ₹4,500/-

11. COMMUNICATION SKILL

- Introduction to the World of Soft Skill
- Identifying self Personality
- Self Assessment Model Tests
- Presentation & Public Speaking
- Multiple Intelligence Check
- Group Discussion
- HR Interview Techniques
- Thematic Apperception Test

Duration: 1 Month (3hrs/ Day)
Course Fee: ₹3,000/-

SCHEDULE: EACH SHORT TERM COURSE STARTS ON 1ST WORKING DAY OF EVERY MONTH
**Infrastructure at a Glance:**

- Modern Tool Room with latest CNC Machines
- Training centre with more than 60 conventional machines, 35 CNC Machines and more than 1700 latest configured computers.
- 62 CAD/CAM/Electrical/Electronics/VLSI Labs
- Design & Development using modern CAD/CAM systems
- Area covered 12.9 acres
- Vacuum Heat Treatment Plant (ALD, Germany)
- 3D Metal Printing Machine
- 3D Plastic Printing Machine
- 5-Axis Milling Machine
- Turn-Mill Machining Centre
- 5-Axis Ultrasonic Machine
- Limited Hostel facility for Boys & Girls

**SAMSUNG INDIA Along with CTTC, Bhubaneswar**

**Offer Following Courses for Advanced Repair & Industrial Skill Enhancement**

1. **Hand Held Product**
   - Introduction to Basic Phone, Smart Phone, Note Series, Tablet etc.
   - Demonstration, Circuit Diagram
   - Trouble Shooting/Fault Finding/Customer Handling
   - Soldering & Disordering (Hi-end)
   - **Duration**: 3 Months (6hrs/ Day)
   - **Course Fee**: ₹ 15,500/-

2. **Room Air Conditioner & Home Appliances (RACHA)**
   - RACHA Basics
   - Installation, Demonstration, Circuit Diagram
   - Trouble Shooting & Error Codes
   - Gas Changing, Compressor Handling
   - **Duration**: 4 Months (6hrs/ Day)
   - **Course Fee**: ₹ 20,500/-

3. **LED, LCD, Plasma TV, Home Theatre (A-V)**
   - Introduction to TV & Home Theatres
   - Installation, Demonstration, Circuit Diagram
   - Trouble Shooting & Error Codes finding
   - Soldering & Error Handling
   - **Duration**: 3 Months (6hrs/ Day)
   - **Course Fee**: ₹ 15,500/-

**ELIGIBILITY FOR SAMSUNG ARISE COURSES:** +2 Science/ ITI/ Diploma/ B.Tech in any Branch
Placements Cell:
The Placement Cell handles all aspects of Campus placements for the eligible students at CTTC, Bhubaneswar. The centre is well equipped with excellent infrastructure to support every stage of the placement process. Arrangement for Pre- placement Talks, Group Discussions, Interviews etc. are handled by Placement Cell.

Facilities Available:
- Class room with modern Audio Visual equipment viz. Interactive Board, LCD, OHP, DVD DigiCAM, Video Camera, Plasma TV etc.
- 24 Hours Computer Lab exclusively for Trainees.
- Dedicated 10 Mbps leased line Internet connection
- Inspection department for inspecting the exercise done by the trainees.
- Full-fledged library equipped with books, manuals, catalogues, magazines & journals.

Faculties:
Professionally qualified, experienced and overseas trained full time faculties are engaged in teaching theory & practical.
GENERAL INFORMATION

ADMISSION CRITERIA
Eligible candidates will be offered admission on first-cum-first-serve basis for selected courses on depositing Registration Fees (As per Course Details) by DD in favour of Central Tool Room & Training Centre, Bhubaneswar along with filled Admission Form. Admission Form along with prospectus can be obtained in person from CTTC, Bhubaneswar or on a request for Admission Form through E-Mail by giving full postal address. The Registration Fee will be adjusted towards course.

- Admission open for Boys & Girls.
- Admission Process for Individual courses as indicated in Course Details.
- No Tuition Fees for SC/ST candidates (only for Medium & Long Term Courses) - 22.5% seats are reserved for SC/ST category. Candidates belonging to reserved category should substantiate their claim by enclosing a Caste Certificate issued by competent authority.

HOSTEL ACCOMMODATION
Separate Hostel Facilities may be provided for outstation boys & girls subject to availability of the accommodation at the discretion of the institute or extra cost as applicable.

RULES FOR AWARDING OF CERTIFICATE
The evaluation system consists of continuous assessment of each module subject to assess the performance of the trainee. Trainee should have minimum 80% attendance.

GENERAL RULES & REGULATIONS FOR TRAINEES

- CTTC reserves the right to reject any application without assigning any reason. Incomplete applications are liable to be rejected.
- Registration Fee is Non-Refundable, in case any candidate cancels his admission for any reason.
- Admission to the course will be given only on deposit of first instalment fees by DD & on submission of relevant documents.
- Course Fee once paid will not be refunded under any circumstances.
- Registration/Course Fee is not transferable.
- Course Fee for Higher/next semester has to be paid within one week from the starting date of semester & all the candidates belonging to SC/ST category are required to fill in fresh application form for fee exemption claim, within one week from the starting date of new semester. Late fee will be charged as a fine from the due date as applicable.
- Insurance & other charges as specified for the course to be paid but the trainee in addition to the course fee as applicable.
- Security deposits shall be forfeited in case of loss of original receipt of the security deposit.
- All the trainees will be ensure discipline within the campus.
- Trainee shall be required to wear uniform & shoes as prescribed by the institute and possess I-Card compulsory during training.
- Mobile Phones, Pen Drives, CD any other related items are not permitted inside CTTC premises.
- Regular attendance will have to be maintained by the trainee as per course schedule & 80% attendance is compulsory in all subjects individually.
- Trainees will abide by the examination rules and regulations displayed on Notice Board of CTTC as and when amended.
- Leave without information/permission will not be entertained.
- Trainees going on leave or home during vacation should inform course coordinator compulsorily.
- All the internal assessments, assignments, evaluation will have to be attended/completed from time to time as per course schedule only.
- No trainee shall be organize/conduct any meeting within the campus.
- The Machines/Equipment/Furniture must be handled carefully. No act of damage to CTTC properly shall be carried out by the trainees, any loss or damage to property, including water & electricity usage.
- Smoking & chewing tobacco, possessing or drinking alcoholic beverages in any form is strictly prohibited within CTTC premises.
- Ragging is strictly prohibited in the premises.
- Writing any Comment/Remarks/Name on doors, walls, toilet, and notice board is strictly prohibited.
- Study material will be provided on extra cost as applicable.
- Working hours will be 8hrs/day (excluding lunch) in different shifts/timing as prescribed by the institute.
- Violation of above & any other Rules, Regulations, Disciplines and Conduct are liable for disciplinary action.