

Long Term Courses

(Admission Subject to Entrance Exam)
Career Oriented Courses (SSC)

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| Name Of The Course | Advance Diploma in Tool & Die Making (ADTDM) | |
| Objectives | To Design & Manufacture intricate tools like Press Tools, Plastic Moulds, Jigs, Fixtures & Gauges etc. with exposure modern Die Design & Die Manufacturing technology independently | |
| Duration | 04 Years | |
| Intake | 60 | |
| Course Fees | Rs.1,60,000/- | |
| Eligibility | 10 th Std. with 60% marks in aggregate (50% for reserved category candidates) | |
| Age | 15 – 19 years as on 1 st August (3 years relaxation for SC/ST candidates) | |
| Course Content | FIRST SEMESTER : Communication Skills Applied Mathematics Applied Physics Applied Chemistry Engineering Drawing Applied Mechanics Workshop Practice – Bench Work Fitting, Turning, Milling & Drilling Workshop Technology - Bench Work Fitting, Turning, Milling & Drilling Engineering Metrology | SECOND SEMESTER : Communication Skills Applied Mathematics Applied Physics Chemistry of Engineering Materials Engineering Drawing Applied Mechanics Workshop Practice – Bench Work Fitting, Turning, Milling & Grinding Workshop Technology – Bench Work Fitting, Turning, Milling & Grinding Engineering Metrology |
| | THIRD SEMESTER : Applied Mathematics Strength of Materials Advance Machine Tool Technology Computer Applications Tool & Die Making Practice – Jigs/ Fixtures/ Gauges / Press Tools / Moulds / Die Casting Dies Elements Tool Design – Jigs, Fixtures, Gauges, Press Tools, Moulds, Cutting Tools Material Technology | FOURTH SEMESTER : Tool Room Machine Maintenance CNC Technology CNC Programming CAD (AutoCAD) Tool & Die Making Practice – Jigs/ Fixtures/ Gauges / Press Tools / Moulds / Die Casting Dies Elements Tool Design – Jigs, Fixtures, Gauges, Press Tools, Moulds Material Technology |
| | FIFTH SEMESTER : Electrical Technology CNC Machining (Lathe, Milling, WEDM & EDM) CAD (MDT) Tool & Die Manufacturing Production Orders Tool Design –Moulds, Die Casting Dies, Forgings Dies Heat Treatment | SIXTH SEMESTER : Entrepreneurship Development Industrial Management Applied Electronics CNC Machining (Lathe, Milling, WEDM & EDM) Engineering Metrology Hydraulics & Pneumatics Computer Applications Production, Planning, Estimation & Costing Industrial Engineering Tool & Die Manufacturing Production Orders |
| | SEVENTH SEMESTER : Project Work – Design & Manufacturing - Tools & Dies | EIGHTH SEMESTER : Project Work – Design & Manufacturing - Tools & Dies |

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| Name Of The Course | Diploma in Mechatronics (DIM) | |
| Objectives | To acquaint the trainee with required knowledge in the field of Mechatronics for the application of Industrial automation & other areas of industrial application | |
| Duration | 03 Years | |
| Intake | 60 | |
| Course Fees | Rs.1,20,000/- | |
| Eligibility | 10th Std. with 60% marks in aggregate (50% for reserved category candidates) | |
| Age | 15 – 19 years as on 1st August (3 years relaxation for SC/ST candidates) | |
| Course Content (Curriculum under development & approval) | FIRST SEMESTER : Communication Skills Applied Mathematics Applied Physics Chemistry of Engineering Materials Engineering Drawing Elements of Electrical Engineering Engineering Metrology Engineering Mechanics Workshop Technology Workshop Practice | SECOND SEMESTER : Communication Skills Applied Mathematics Applied Physics Chemistry of Engineering Materials Engineering Drawing Basics of Electronics Engineering Engineering Metrology Engineering Mechanics Workshop Technology Workshop Practice |
| | THIRD SEMESTER : Strength of Materials Electrical Machines Computer Applications Electronics Devices & Circuits Digital Electronics Electronics Workshop Materials Science Applied Mathematics Manufacturing Technology Network Theory | FOURTH SEMESTER : Theory of Machines Electrical Machines Computer Applications Power Electronics CNC Technology Linear Integrated Circuits Industrial Management Electronics Workshop Programmable Logic Controller Microprocessor & Microcontroller |
| | FIFTH SEMESTER : SCADA Hydraulics & Pneumatics CNC Programming & Machining Embedded Systems Robotics Electronic Circuit Design Control Devices | SIXTH SEMESTER : Mechatronics Technology Mechanical, Electrical & Electronics Maintenance Live Projects |

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|---------------------------|--|--|
| Name Of The Course | Certificate Course in Machinist (Tool Room) (CCMTR) NSQF LEVEL- 5 | |
| Objectives | To produce different parts of Press Tools, Plastic Moulds, Jigs, Fixtures & Gauges etc. on conventional machine tools independently with exposure to CNC Technology | |
| Duration | 02 Years | |
| Intake | 20 | |
| Course Fees | Rs. 65,000/- | |
| Eligibility | 10 th Std. with 60% marks in aggregate (50% for reserved category candidates) | |
| Age | 15 – 19 years as on 1 st August (3 years relaxation for SC/ST candidates) | |
| Course Content | FIRST SEMESTER : Communication Skills Applied Mathematics Applied Physics Engineering Drawing Workshop Practice – Bench Work Fitting, Turning, Milling & Drilling Workshop Technology - Bench Work Fitting, Turning, Milling & Drilling Engineering Metrology | SECOND SEMESTER : Communication Skills Applied Mathematics Engineering Drawing Applied Mechanics Workshop Practice – Bench Work Assembly & Fitting, Turning, Milling & Grinding Workshop Technology - Bench Work Assembly & Fitting, Turning, Milling & Grinding Engineering Metrology |
| | THIRD SEMESTER : Engineering Drawing Strength of Materials Advance Machine Tool Technology CNC Technology CNC Programming CNC Machining (Lathe & Milling) Tool & Die Parts Manufacturing – Jigs/ Fixtures/ Gauges / Press Tools / Moulds / Die Casting Dies Elements Material Technology | FOURTH SEMESTER : Sociology Entrepreneurship Development Tool Room Machine Maintenance CNC Programming CNC Machining (WEDM & EDM) Engineering Metrology Hydraulics & Pneumatics Tool & Die Parts Manufacturing – Jigs/ Fixtures/ Gauges / Press Tools / Moulds / Die Casting Dies Elements Material Technology Heat Treatment Fundamentals of Tool Engineering |

Long Term Course Admission Schedule (2017-18)

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| ADTDM | 03/08/2017 TO 31/07/2021 |
| DIM | 03/08/2017 TO 31/07/2020 |
| CCMTR | 03/08/2017 TO 31/07/2019 |

Institute reserves right to incorporate changes in course contents, course duration, Intake Capacity, No. of batches & course fees without prior notice.