



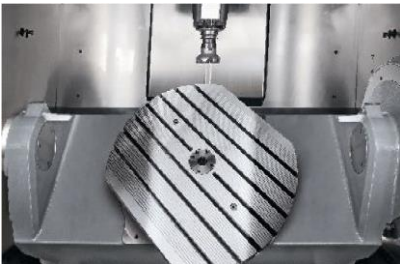
**MSME TECHNOLOGY CENTRE  
INDO GERMAN TOOL ROOM, AURANGABAD**

**(A Government of India Society, Ministry of MSME)**

**AN ISO 9001:2015, ISO 14001:2015, ISO 45001: 2018, ISO 50001:2011  
CERTIFIED TOOL ROOM & TRAINING CENTRE**



# **PROSPECTUS 2023**

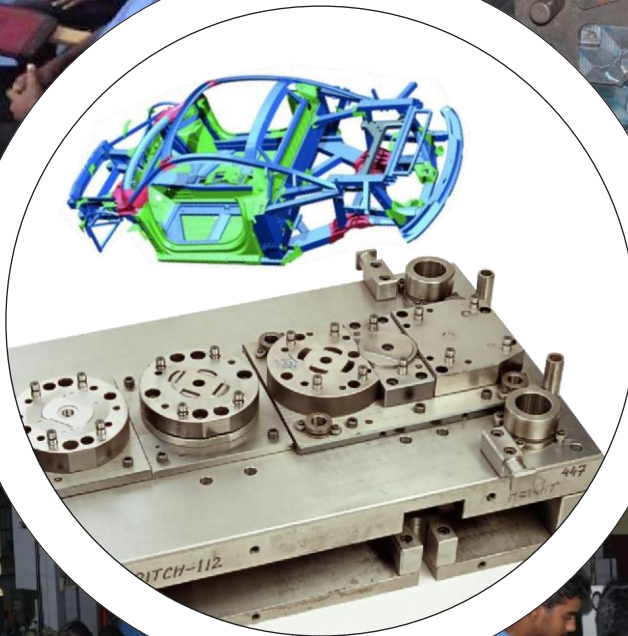


**ADVANCE DIPLOMA IN TOOL & DIE MAKING**

**DIPLOMA IN MECHATRONICS**

**CERTIFICATE COURSE IN MACHINIST (TOOL ROOM)**

## TRAINING AT GLANCE



## FOREWORD

INDO GERMAN TOOL ROOM, AURANGABAD is one of the premier institutes in the country devoted to Training & Technological Excellence in the field of Tool & Die Technology. IGTR has been serving the industry by providing high quality tools as well as training highly skilled personnel in Tool & Die Technology, Low Cost Automation, Mechatronics, Robotics etc.

This prospectus has been compiled to give detailed information on our long-term training programmes. As we are continuously expanding our training facilities, this prospectus gives the picture only as on today. It is our endeavour to expand the scope and content of our training programmes to meet the growing needs of the industry and society.

I hope that this prospectus would assist you in making the best selection for your career growth.

**R.D. PATIL**  
**General Manager**

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## IMPORTANT DATES

Commencement of Online Registration	- 27 <sup>th</sup> May 2023
Last Date of Online Registration	- 02 <sup>nd</sup> July 2023
Entrance Examination	- 09 <sup>th</sup> July 2023
Result of Entrance Examination	- 10 <sup>th</sup> July 2023
Admission / Counselling Schedule	- 11 <sup>th</sup> July 2023 onwards
Course Commencement	- 01 <sup>st</sup> August 2023



## INTRODUCTION

Indo German Tool Room (IGTR) Aurangabad (A Govt. of India Society, Under Ministry of MSME) an ISO 9001:2015, ISO 14001:2015 ISO 45001: 2018, ISO 50001:2011 Certified Training & Production Centre established in the year 1990 is aimed at promoting purposeful technical education for the youth in India. The organization implements its Program of technical training through its Training Centre located at Aurangabad and Extension Centres at Pune, Nagpur, Mumbai & Kolhapur.

IGTR has ultramodern, state-of-the-art Tool Room facilities under single roof. It is a Dream Tool Room for any Tool Maker. The wide spectrum of sophisticated machines includes latest & advance CNC Lathe, Milling, EDM & Wire-Cut, 3D Printing (Metal), 3D Printing (Plastics), 3D Scanner, CNC Jig Grinding, CNC Turn Mill, 5 Axis CNC Mill Turn, High Precision 5 – Axis Machining centre, which can cater to various requirements of the customers.

IGTR strongly believes in TQM Philosophy. This belief is evident in the procedures adopted for ensuring quality before and after manufacture. High precision equipment like CNC Co-ordinate Measuring Machine, Electronic Height Master, Profile Projector and Tool Maker's Microscope ensure thorough checking of the components. A full-fledged standards room and NABL Accredited calibration Lab Offers Precision measuring/Inspection of job and Calibration of Measuring instrument services as per standards requirements. In addition, trials of the tools are undertaken on the Mechanical Press and Injection Moulding Machines.

**CAREER ORIENTED AICTE / NSQF APPROVED LONG-TERM COURSES OFFERED ARE BASED ON ADMISSION THROUGH ENTRANCE EXAM**

Long Term Course	● Advance Diploma in Tool & Die Making	AICTE / MSBTE APPROVED
	● Diploma in Mechatronics	AICTE / MSBTE APPROVED
	● Certificate Course in Machinist Tool Room	NSQF LEVEL 5

**WIDE SPECTRUM CAREER ORIENTED COURSES OFFERED ON FIRST-COME-FIRST-SERVE BASIS ARE**

Long Term Courses	● Post Graduate Diploma in Tool Design & CAD CAM – NSQF Level 8	PGDTD & CC	For BE Graduates
	● Post Graduate Diploma in Mechanical Product Design – NSQF Level 8	PGDMPD	
	● Post Graduate Diploma in Mechatronics – NSQF Level 8	PGDIM	
	● Post Diploma in Tool Design & CAD CAM – NSQF Level 6	PDTD & CC	Diploma / BE Graduates
	● Post Diploma in Tool & Die Manufacturing – NSQF Level 6	PDTDM	
	● Post Diploma in Computer Aided Engineering – NSQF Level 6	PDCAE	
	● Post Diploma in Product Design – NSQF Level 6	PDPD	
	● Post Diploma in CNC Machine Maintenance – NSQF Level 6	PDCNCMM	
	● Post Diploma in Mechatronics – NSQF Level 6	PDIM	
	● Post Diploma in VLSI & Embedded Systems – NSQF Level 6	PDVLSI	ITI Pass outs
	● Post Diploma in Industrial Automation / Robotics – NSQF Level 6	PDIA / R	
	● Advance Certificate Course in Tool Design & CAD CAM – NSQF Level 5	ACCTD & CC	
	● Advance Certificate Course in Tool & Die Manufacturing – NSQF Level 5	ACCTDM	
	● Advance Certificate Course in CNC Machining – NSQF Level 5	ACCCM	
	● Advance Certificate Course in Machine Maintenance – NSQF Level 5	ACCMM	
	● Advance Certificate Course in Welding Technology – NSQF Level 5	ACCWT	SSC Pass outs
	● Certificate Course in CNC Turning & Milling – NSQF Level 4	CCCTM	
	● Certificate Course in Tool & Die Making – NSQF Level 4	CCTDM	
	● Certificate Course in Machine Tool & Welding Operations	CCMT & WO	SSC Dropouts
	● Certificate Course in Machine Maintenance & Welding Operations	CCMM & WO	
Medium Term Courses	● Certificate Course in CNC Machine Operations – Lathe NSQF Level 4	CCCMO (L)	SSSC Pass outs
	● Certificate Course in CNC Machine Operations – Milling NSQF Level 4	CCCMO (M)	
	● Certificate Course in CNC Machine Operations – Wire Cut & EDM	CCCMO (W&E)	
	● Adv. Diploma in Comp. Hardware & Networking Mgmt.. – NSQF Level 5	ADCHNM	Any Graduates
	● CISCO Certified Network Associate – NSQF Level 6	CCNA	
	● Adv. Certificate Course in Inspection & Quality Control – NSQF Level 5	ACCIQC	
	● Master Certificate Course in Automation & Process Control – NSQF Level 7	MCCAPC	12 <sup>th</sup> Pass
	● Master Certificate Course in Computer Aided Tool Engineering – NSQF Level 6	MCCATE	
	● Master Certificate Course in CAD / CAM – NSQF Level 6	MCCCC	
	● Master Certificate Course in Tool Design – NSQF Level 6	MCCTD	ITI / DIPLOMA / BE
	● Master Certificate Course in Welding Operations	MCCWO	
	● Master Certificate Course in CNC Technology – NSQF Level 6	MCCCT	
	● Master Certificate Course in Mechatronics – NSQF Level 6	MCCM	
	● Master Certificate Course in Product Design – NSQF Level 6	MCCPD	
	● Advance Diploma in Structural Design & Analysis – NSQF Level 6	ADSDA	
	● Advance Diploma in Machine Maintenance & Automation – NSQF Level 6	ADMMA	
	● Certificate Course in Mechatronics	CCM	ITI / DIPLOMA / BE
	● Certificate Course in VLSI & Embedded Systems	CCVESD	
	● Certificate Course in CAD / CAM	CCCC	
	● Certificate Course in Tool Design	CCTD	
	● Certificate Course in Product Design	CCPD	
	● Certificate Course in Tool Design & CAD / CAM	CCTD & CC	

IGTR has achieved international recognition also by providing continuous training courses in Tool Design & Die manufacturing technology to the trainees of South Africa, Sri Lanka, Saudi Arabia sponsored by respective state government's agencies, institutes, & industrial associations. Till Date more than 1 Lakh Indian trainees 78 trainees of South Africa, 24 trainees from Sri Lanka have been trained in the area of Tool Design CAD/CAM/CAE/CNC Programming & CNC Machining & automation areas.

## MAIN OBJECTIVES

To serve small & medium enterprises, particularly metal and plastic groups in the fields of:

- Training in Tool & Die Technology, CAD/CAM solutions
- Training in Mechatronics & Robotics for Industrial automation solutions
- Design development & Manufacturing of Quality Press Tools, Moulds, Dies, Jigs & Fixtures, Gauges etc.
- Training in Welding Technology, Repairs & Maintenance Electrical & Electronics Gadgets, Computer Hardware Maintenance & Networking.
- Consultancy for Total Tooling solutions in Product Development, Productivity & Quality improvement
- Training on product development, Reverse Engineering, 3D Scanning & 3D Printing:

## MAIN FACILITIES

The facilities available in the Tool Room are as follows:

- Full-fledged training workshop
- Well-equipped Mechatronics & Robotics Kits Low-cost Automation lab including PLC, VLSI, SCADA, EMBEDDED SYSTEMS etc.
- Up to date Design & CAD/CAM facilities
- Well-equipped modern production workshop with latest CNC Machines to manufacture highly accurate jobs
- Versatile Heat Treatment Shop
- 3D Scanning & 3D Printing (Metal & Plastic)
- Testing and Quality Control equipment
- Consultancy and Marketing services
- Laser Calibration for linear movement of CNC Machines

## LOCATION

Aurangabad is a historical city situated in the state of Maharashtra. It is about 388 kilometres to the north east of Mumbai and well connected by road, rail as well as air with the rest of the country. The Famous Caves of Ajanta and Ellora are located 101 and 27 Kilometres from the city respectively. The 52,000 sq. mtrs. area Campus of the IGTR is located at MIDC, Chikalthana Industrial Area, at a distance of 10 kilometres from the Aurangabad Railway Station and Central Bus Stand.

## TRAINING OBJECTIVES

- To impart the highest degree of skill through job-oriented training in the relevant field of Tool & Die, Technology & Mechatronics Technology
- To develop industrial culture and work habits by inculcating professional ethics and values.
- To provide opportunity for gainful employment in high technology areas.
- To inculcate entrepreneurial skills with techno commercial knowledge for self-employment.
- To make the trainees aware about their responsibility towards the nation, the society and the environment.

## TRAINING FACILITIES

- Maintaining a scientific blend of theory and practice, the trainee is equipped to apply the acquired knowledge.
- The centre is equipped with state-of-art sophisticated imported machines and equipment incorporating latest CNC, CAD/CAM, CAE, Mechatronics, Autotronics & Robotics Technology, Welding 3D Scanning, 3D Printing etc.
- The training is imparted through the application of modern audio and video teaching aids.
- The centre has a team of highly qualified and motivated trainers who are subjected to continuous upgradation of knowledge with Didactic and Pedagogical skills by Experts.
- Placement cell arranges campus interviews to help the trainees in planning their career commensurate with their potential and areas of interest.

## INFORMATION OF ADMISSION PROCESS

Admission to the following courses are offered on the merit basis for the marks scored in entrance examination for

- 4 years Advance Diploma in Tool & Die Making - *AICTE approved*
- 3 years Diploma in Mechatronics - *AICTE approved*
- 2 years Certificate Course in Machinist (Tool Room) - *NSQF approved*

The course details are:

COURSE	DURATION	INTAKE	MINIMUM QUALIFICATION	AGE	COURSE FEES / PER ANNUM
<b>Advance Diploma in Tool &amp; Die Making</b> (AICTE/MSBTE Approved)	Four Years	60	10 <sup>th</sup> Standard with Science and Maths or Equivalent with 60% marks in aggregate of all subjects (50% for the candidates belonging to SC/ST category)	15-19 years as on 1/7/2023 (3 years relaxation for SC/ST candidates)	<b>Rs.48,000/-</b>
<b>Diploma in Mechatronics</b> (AICTE/MSBTE Approved)	Three Years	60			<b>Rs.48,000/-</b>
<b>Certificate Course in Machinist (Tool Room)</b> (NSQF Level 5)	Two Years	40			<b>RS.40,000/-</b>

## MODE OF SELECTION:

Selection will be made through Entrance Examination (**Online / Offline Mode**) to be conducted at Aurangabad. The list of successful candidates of Entrance Examination in the order of merit, will be declared on website ([www.igtr-aur.org](http://www.igtr-aur.org)) and displayed at IGTR Notice Board on scheduled date as mentioned. The candidate, who meets the eligibility criteria of Educational Qualification - Percentage of Marks (aggregate of all subjects) in SSC Examination, Age Limit and Caste Certificate (for Reserve Categories) as mentioned above shall be given admission as per institute norms. **Candidates, who have appeared for 10<sup>th</sup> / SSC examination 2023 may also register for Entrance Examination, however his/her admission to the course is subject to meeting eligibility criteria as mentioned above.**

In case of seats for the course of "Certificate Course in Machinist (Tool Room)" falls vacant, then the vacant seats will be filled up from the candidates who has appeared for the other two courses i.e. "Advance Diploma in Tool & Die Making" and "Diploma in Mechatronics" as per merit.

## HOW TO APPLY:

Candidate willing to take Admission for any of the course mentioned above will have to register his / her candidature for admission to any of the above courses by the **On-line Registration** process through the link available on the IGTR web site [www.igtr-aur.org](http://www.igtr-aur.org). The application in the prescribed proforma should be filled online. The candidate must make the payment for registration through the link provided in the On-line Registration Process. The Registration Fee of Rs.800/- (Rs.400/- in case of SC/ST candidates) plus applicable taxes is to be paid by individual candidate for a single course. Candidates are given choice to register for multiple courses. Candidates willing to register for more than one course will have to make additional payment for each course as applicable. Registration Fee is non-refundable.

## INSTRUCTIONS AND PROCEDURES FOR ONLINE REGISTRATION

1. Please read the instructions, procedure and Information carefully before you start filling the Online Application.
2. Entrance Examination 2023 will be conducted by Indo German Tool Room, Aurangabad for admission to the AICTE approved 4 years Advance Diploma in Tool & Die Making, 3 years Diploma in Mechatronics and NSQF approved 2 years Certificate Course in Machinist (Tool Room) from the academic year 2023-24. For more details, check Admission Notice available on Website.
3. Candidates can apply for Entrance Examination 2023 "Online" only.
4. **Assistance for Online Application to Entrance Examination 2023 and for downloading of Admit Card is available at Indo German Tool Room, Aurangabad (Free of Cost)**
5. A candidate can register for the Entrance Examination 2023 by filling the basic information along with educational qualification details and further payment of fees for the Entrance Examination. On successful completion of the registration Admit card for appearing Entrance Examination 2023 will be sent to the candidates registered Email ID.
6. For any help, please forward your queries / enquiries on [entranceexam@igtr-aur.org](mailto:entranceexam@igtr-aur.org) or call on **0240-2610100 Extn. No. 411 / 430 / 431 / 432 / 501 Mobile No: +91 9373161252, +91 9372161253.**
7. Candidate can submit only one Application Form. Multiple Applications of a candidate are liable to be rejected. However, the candidate has choice to select more than one course in the same application and Entrance Examination fee will be charged accordingly.
8. Candidates, those who have passed 10<sup>th</sup> / SSC examination with Science and Mathematics with 60% marks in aggregate of all subjects (50% for the candidates belonging to SC/ST category) are eligible to appear in Entrance Examination 2023.
9. Also Candidates, those who have appeared for 10<sup>th</sup> / SSC Examination 2023 and are waiting for result are also permitted to apply for courses and appear for Entrance Examination 2023, his / her admission is subject to meeting eligibility criteria.
10. While filling the information for online registration, the candidate with SSC / 10<sup>th</sup> Passed Examination qualification shall provide total marks obtained out of maximum marks, for both state pattern as well as CBSE / ICSE pattern.
11. For those candidates who have CGPA score in their CBSE / ICSE pattern can convert CGPA score to total marks by multiplying your CGPA score by 9.5.
12. Whereas the candidate who has appeared for SSC / 10<sup>th</sup> Examination for year 2023, but the results are not yet declared, shall upload his / her Admit Card of the SSC / 10<sup>th</sup> Examination.
13. The Age criteria for appearing in Entrance Examination 2023 is as follows:
  - a. For Candidates of General / OBC Category 15-19 years as on 01/07/2023
  - b. For Candidates of SC / ST Category 15-22 years as on 01/07/2023
14. **Reservation in seats to SC/ST/OBC/PH are applicable as per rules, subject to production of authentic Certificates. No Tuition Fee will be charged to SC/ST candidates, however other fees as applicable will be charged.**
15. **In accordance with the provisions of the Constitution (One Hundred and Third Amendment) Act 2019, and the reference of Ministry of Social Justice and Empowerment vide OM No. 20013/01/2018-BC-II dated 17th January 2019, & as per the AICTE circular reservation for the Economically Weaker Sections (EWSs) who are not covered under the existing scheme of reservations for the Scheduled Castes, the Scheduled Tribes and the Socially and Educationally Backward Classes, shall be provided reservation for admission to the long term courses Advance Diploma in Tool & Die Making (AICTE/MSBTE Approved), Diploma in Mechatronics (AICTE/MSBTE Approved) Certificate Course in Machinist (Tool Room) (NSQF Level 5) as per the norms of above order.**

16. The benefit of reservation under EWS can be availed upon submission of an Income and EWS Certificate issued by a Competent Authority while undertaking the online registration process
17. Please ensure your eligibility as per the eligibility conditions given in the advertisement / prospectus on the IGTR, Aurangabad's website [www.igtr-aur.org](http://www.igtr-aur.org)
18. Candidates must follow the instructions strictly as given in the advertisement / prospectus on the IGTR, Aurangabad's website [www.igtr-aur.org](http://www.igtr-aur.org)
19. Requirement of Aadhaar- Clarification
  - a. All the Indian citizen candidates should possess AADHAAR card issued by UIDAI. At the time of filling application form, the candidates will have to enter their AADHAAR number, name, date of birth & gender which will be validated with the UIDAI's data.
  - b. Applicants not yet enrolled for Aadhaar, are hereby required to make application for Aadhaar enrolment in case he / she is entitled to obtain Aadhaar as per section 3 of Aadhaar Act. Such applicant may visit any Aadhaar enrolment centre (list available at [www.uidai.gov.in](http://www.uidai.gov.in)) to get enrolled for Aadhaar.
20. The online application process will start from 27<sup>th</sup> May 2023 onwards. The last date for application is 02<sup>nd</sup> July 2023.
21. Uploading of mandatory documents (images should be in JPG format and size should be between (10kb to 100kb) The details of the documents to be uploaded are
  - a. 10<sup>th</sup> / SSC Marks Memo (for Passed candidates) or 10<sup>th</sup> / SSC Examination Admit Card (for Examination Appeared in 2023 candidates)
  - b. Transfer / Leaving Certificate / Birth Certificate or Date of Birth Proof
  - c. Aadhaar Card
  - d. Caste Certificate if applicable
  - e. Scanned image of the Photograph of the candidate
  - f. The Scanned image of Signature of the candidate

## SCHEDULE OF EXAMINATION & EXAMINATION FEE DETAILS

REGISTRATION, EXAMINATION & ADMISSION SCHEDULE	
Submission of on-line application forms	27 <sup>th</sup> May 2023 (Saturday) 17.00 Hrs. onwards up to 02 <sup>nd</sup> July 2023 (Sunday) up to 24:00 Hrs. (IST)
Registration Confirmation	On successful completion of online application (registration) and completion of payment fee, candidate will receive admit card on their registered mail ID
Entrance Examination	09 <sup>th</sup> July 2023
Declaration of Merit List / Result of Entrance Exam	10 <sup>th</sup> July 2023
Admission / Counselling Schedule *	11 <sup>th</sup> July 2023 onwards
*For exact date, candidate may remain in touch with website.	

EXAMINATION FEE DETAILS	
FOR GENERAL / OBC	Rs.800/- (INR) per Course + Bank Charges as applicable
FOR SC / ST	Rs.400/- (INR) per Course + Bank Charges as applicable
Note: A candidate willing to apply for more than one course, fee in multiples (as applicable per course as mentioned above) has to be paid.	

1. The fee can be remitted in the following ways:
  - a. Credit Card      b. Debit Card      c. Net Banking      d. UPI
2. Candidates must preserve their Admit card and all documents till the admission in Institution is over.
3. Four Simple steps to Apply Online
  - a. Fill the Online Application Form.
  - b. Upload Photo, Signature, & necessary documents
  - c. Make Payment of Fee by prescribed modes.
  - d. Print Admit Card after Successful remittance of fee.
4. Candidate is required to mention only his / her own or parent's mobile number as all information / communication will be sent on registered mobile number / e-mail ID.
5. Candidate can submit only one Application Form. Multiple Applications of a candidate are liable to be rejected. However, the candidate has choice to select more than one course in the same application and registration fee will be charged accordingly

### Note:

- The above schedule / procedure for selection may change subject to situations & directives from appropriate competent authorities.
- For any help, please forward your queries on [entranceexam@igtr-aur.org](mailto:entranceexam@igtr-aur.org)
- Link for online Registration: [https://indogermantr.formsubmit.in/ep\\_ses\\_web\\_landing](https://indogermantr.formsubmit.in/ep_ses_web_landing)
- You May call us on 0240-2610100 Extn. No.411 / 430 / 431 / 432 / 501 Mobile: +919373161252, +919373161253



## QUESTION PAPER (SYLLABUS & PATTERN)

- Question Paper contains Subjects: English, Mathematics, General Science (Physics & Chemistry), General Knowledge and Mental Aptitude
- The total question paper will have 100 questions
- All the question will be objective type only
- Each question will have 4 choice to be chosen
- Each question carries 1 mark for the right choice, no negative marks for wrong answers

## ENTRANCE EXAMINATION SYLLABUS (Test will be in English medium only):

### 1. MATHEMATICS:

<b>Arithmetic:</b>	Percentage, Profit, Loss, Simple & Compound Interest, Discount, Commission, Highest Common Factor & Least Common Factor, Multiple of Polynomials, Binary Numbers, Probability, Arithmetic Progression & Geometric Progression.
<b>Mensuration:</b>	Areas & Circumference of Different Geometries, Surface Area & Volume of Diff Geometries, such as Cylinders, Cones, Cubes, Etc.
<b>Ratio and Proportion:</b>	Ratio of Real Numbers, Order in Ratios, Word Problems of Ratios, Properties of Ratios, Theorem on Equal Ratios, Proportion, K-Method
<b>Variation:</b>	Direct Variation & Inverse Variation, Formulae & The Concept of Variation
<b>Sim. Linear Equations:</b>	Graphical Method & Algebraic Method
<b>Quadratic Equations:</b>	Quadratic Equations, Solutions of a Quadratic Equations, Methods of Solving Quadratic Equations, Factorization, Perfect Square Method, Formula Method
<b>Algebraic Expressions:</b>	Polynomials, Degree of Polynomials, Sum, Product & Division of Polynomials. Coefficient form of Polynomials, Synthetic Division etc.
<b>Trigonometry:</b>	Trigonometrical Ratios, Measure of Angle, Relationships, Identities & Their Applications, etc.
<b>Statistics:</b>	Numeral Data & Its Presentation, Cumulative Frequency Table, Representation of Statistical Data by Different Methods
<b>Geometry:</b>	Similarity, Theorem of Pythagoras, Circle & Geometrical Constructions, Coordinate Geometry.

### 2. SCIENCE & TECHNOLOGY

<b>Electricity, Electric: Spark &amp; Electromagnetism</b>	Electric Current, Potential Difference, Current in Conductors & Electrolytes, Coulomb, Volt, Ampere, Ohms Law & Concept of Resistance, Electromotive Force & Potential Difference, Heating Effect of Electric Current, Joules Law, Magnetic Field Due to Electric Current Different Cells.
<b>Sources of Energy:</b>	Energy from Sun, Energy from Flowing Water, Nuclear Energy & Its Uses.
<b>Moving Objects &amp; Motion</b>	Types of Motion, Distance & Displacement, Fundamental Quantities & System of Units, Uniform & Non-Uniform Motion, Scalars & Vectors, First, Second & Third Laws of Motion, Concept of Force, Inertia, Force Equation, Acceleration & Deceleration, Law of Conservation of Momentum, Gravitation & Law of Gravitation, Mass & Weight of An Object
<b>Work, Power: &amp; Energy</b>	Concept of Work, Power & Energy, Their Units & Measurements, Types of Energy – Potential Energy & Kinetic Energy, Law of Conservation of energy, Pressure in Fluids, Archimedes Principle
<b>Sound:</b>	Nature Sound, Production, Propagation, Characteristics of Sound, Speed of Sound
<b>Light:</b>	Conversion & Diversion of Light, Lenses, Human Eye, Defects of Eye Vision, Refraction of Light, Law of Refraction, Refractive Index, Dispersion of Light and Scattering of Light
<b>Matter:</b>	Properties & States of Matter, Change of State, Absorption of Heat, Elements, Compounds, Mixtures, Solutions & Their Types, Law of Chemical Combination, Law of Conservation of Matter, Law of Constant Proportion, Molecular Mass, Mole Concept, Valency & Chemical Symbols of Elements & Chemical Formulae of Compounds
<b>Atom:</b>	Atomic Structure, Different Theories, Mass of Atom, Atomic No. & Valance, Isotopes, Periodic Classification of Elements, Etc.
<b>Metals, Non-Metals:</b>	Metal, Non-Metals & Their Physical & Chemical Properties, Occurrence of Metals & Corrosion of Metals.
<b>Acid Base Theory: Carbon &amp; Carbon: Compounds</b>	Acids, Bases, Indicators, Strength, Reactivity & Ionization of Acids & Bases, Salts. Carbon & Its Properties, Carbon Compounds, Their Properties & Applications, Hydrocarbons, Saturated Unsaturated Carbon, Functional Groups & Nomenclature of Organic Compounds
<b>Chemical Reactions: &amp; Their Types</b>	Concept of Chemical Reactions, Types of Chemical Reactions, Oxidation, Reduction & Neutralization

- ENGLISH:** Grammar, Vocabulary, Spell check
- GENERAL KNOWLEDGE:** National and International Current Affairs and General Knowledge.
- MECHANICAL ABILITY:** Logical Thinking, Aptitude Test

## REPORTING TO EXAMINATION CENTRE

1. Candidates & their parents are requested to read the instructions, procedure and Information carefully before you come to the examination. Candidates are advised to adhere to all the instructions given in the prospectus. Any infringement instructions shall entail disciplinary action including no entry in the examination centre & ban from future process / examinations.
2. Entry in the examination centre is allowed **one hour before the start of the exam**. Last entry in the examination centre is **30 minutes before the start of the exam**. It would be appropriate to visit the centre a day before the examination to confirm the location, distance etc. of centre to avoid delay. It is the responsibility of the candidate to reach the centre on time. **No candidate whatsoever is the reason shall be allowed in the examination centre on start of the exam.**
3. Parents may ensure that their ward is leaving for examination as per the instructions given in prospectus & reaching the examination centre one hour before start of the examination. For the same your ward should leave the home, well in advance, considering the traffic, location of the centre, mode of transportation available & weather conditions etc to avoid any problem in reaching the centre. Parent shall sign in appropriate place as an undertaking that they will ensure compliance of online entrance examination rules.
4. Material to be brought on the day of examination
  - a. Valid admit card
  - b. Photo ID - Aadhar card / Passport / Pan Card / School or College I Card
  - c. Passport size photograph
5. No arrangement will be made in the examination centre for keeping any article / item / mobile / purse etc. of the candidate.
6. Candidate will strictly follow all the instructions issued to check unfair mean activities in the examination.
7. Candidate will be frisked before commencement of the examination.
8. No candidate shall be allowed to use toilets in the last 30 minutes of examination.
9. No candidate shall be allowed to leave the examination hall before concluding the test.
10. No candidate shall be allowed to leave the examination hall without permission of the invigilator.
11. The admit card is issued provisionally to the candidate subject to his / her satisfying the eligibility conditions.
12. Candidate must preserve the admit card till the allotment of admission to the course in the institution.

## ATTEMPTING THE ENTRANCE EXAMINATION 2023

1. Permission for the examination hall to a candidate will be given after verification of the candidate's admit card by the following documents
  - a. Photograph of the candidate
  - b. Signature of the candidate
  - c. Photo ID - Aadhar card / Passport / Pan Card / School or College I Card
2. Examination
  - a. The candidate will move on his allotted seat.
  - b. The candidate has to sign his attendance sheet before start of the examination
  - c. Instructions for attempting the Entrance Examination shall be given before start of Examination
  - d. Warning bell will be given 5 minutes before start of the exam for filling up the basic information by the candidate & verifying the same by the invigilator..
  - e. A long bell shall be given for start of the examination at exact time of start of the exam.
  - f. The candidate has to click the correct choice for answer from available 4 choices.
  - g. Each question carries 1 mark for the right choice, no negative marks for wrong answers
  - h. On completion of the prescribed allotted Examination time, the candidate has to return the answer sheet along with the question booklet.
  - i. The candidate will be allowed to leave the Examination hall only with the due permission of the invigilator on confirmation of receipt of complete documents.

## RESULT ANNOUNCEMENT

1. The merit list of shortlisted candidates will be displayed on IGTR website [www.igtr-aur.org](http://www.igtr-aur.org) as well as a copy of the same will be displayed on IGTR Aurangabad Entry Gate.
2. Shortlisted candidates as per merit list may also be provided the information on individual registered email id regarding their selection and counselling schedule.

## COUNSELLING FOR ADMISSION

1. The successful candidates will be offered for admission to the course as per the merit list.
2. If two or more than two candidates are having same score in the Entrance Examination, preference for selection will be given with the following criteria sequentially as below:
  - a. Highest marks in qualifying Examination i.e. SSC / 10<sup>th</sup>
  - b. Maximum marks in Mathematics
  - c. Maximum marks in Science
  - d. Maximum marks in English
  - e. Date of birth (Eldest to Youngest)
3. **Provisional Admission to a candidate will be confirmed based on the verification & submission of the original documents (mandatory) as mentioned below**
  - a. Admit Card
  - b. 10<sup>th</sup> / SSC Marks Memo
  - c. Transfer / Leaving Certificate
  - d. Photograph
  - e. Aadhar Card
  - f. Caste Certificate if applicable
  - g. EWS Certificate from appropriate authority if applicable
  - h. Signature of the candidate
  - i. Any other document, if necessary
4. A candidate must confirm his / her admission to the course by making the necessary payment for the course fees as given in the prospectus.
5. Mode of payment for the course fees will be online payment only and the payment for the course fee must be completed within the stipulated time as allotted.
6. If any candidate as per the merit list does not report for counselling session as per schedule, then his / her candidature will be cancelled and next candidate in waiting as per the merit list shall be offered admission.  
**Note: Candidate (He / She) will not be given admission in case He / She fails to submit any of the mandatory documents required to be submitted at the time of admission. No Relaxation in time shall be given for submission of the mandatory documents / certificates as mentioned in Document submission list as given.**
7. The candidate who fails to submit the mandatory documents and make the requisite payment within stipulated time will not be considered for the admission to the course and next candidate in waiting as per the merit list shall be offered admission. The management of IGTR, Aurangabad reserves right to incorporate changes in rules, regulations, course contents / syllabus, duration / schedule, intake capacity, course fees without prior notice.

## DOCUMENT SUBMISSION

**Selected candidates are & required to deposit following documents at the time of admission**

- a. Original SSC Mark Memo
- b. Original Transfer / Leaving Certificate of last Education
- c. Original Caste Certificate (Wherever applicable) issued by competent authority. Non-creamy layer certificate in case of OBC candidates
- d. EWS Certificate from appropriate authority (Wherever applicable)

- e. Bond to be executed on Rs 200/- Valuation stamp duty paper for undertaking of Rs 20000/- & it is to be notarized by competent authority (Bond Paper format will be made available on IGTR Website)
- f. Guarantee undertaking to be executed on Rs 50/- Valuation stamp duty paper & it is to be notarized by competent authority. (Bond Paper format will be made available on IGTR Website)
- g. Medical Fitness Certificate from Civil Surgeon
- h. Certificate from Doctor for student Injected with TT Injection
- i. Passport size 8 photographs.

**Deposited documents shall be returned to the candidates only on completion of the course only.**

**Note: Please note that no time extension will be given for submission of required original mandatory documents in any circumstances.**

## OVERVIEW OF COURSES

Name of the Course	ADVANCE DIPLOMA IN TOOL & DIE MAKING	DIPLOMA IN MECHATRONICS	CERTIFICATE COURSE IN MACHINIST (TOOL ROOM)
Course Duration	4 years	3 years	2 years
Intake Per Year	60	60	40
Total Tuition Fee	1,92,000/-	1,44,000/-	80,000/-
Tuition Fee (Per Annum)	48,000/-	48,000/-	40,000/-
Security Deposit (One Time)	5,000/-	5,000/-	5,000/-
Insurance Premium (Per Annum)	200/-	200/-	200/-
Library Fee (Per Annum)	300/-	300/-	300/-
Internet Fee (Per Annum)	150/-	150/-	150/-
Recreation Fees (Per Annum)	300/-	300/-	300/-
Mess Charges (Per Semester)	13,200/-	13,200/-	13,200/-
Hostel Charges (Per Semester)	9,600/-	9,600/-	9,600/-
Entry Qualification	Passed 10 <sup>th</sup> class with Science & Mathematics with minimum <b>60% aggregate marks of all subjects</b> (50% for the candidates belonging to SC/ST category)		
Age	15 to 19 years as on 1 <sup>st</sup> July 2023 (3 Years relaxation for SC/ST Candidates)		
Reservation of Seats	Reservation for SC/ST/ OBC/PH are applicable as per rules. Admission will not be given without Valid documents / certificates from Competent Authority.		
Proposed Start date	01 <sup>st</sup> August 2023		
Internship	On successful completion of the course, the Trainees may have to undergo one-year internship, if required at the discretion of the Institute.		
Medium of Instruction	English		
Course Structure	Semester basis		
Theory:Practical	30:70 Approx		
Bond	The parents of the selected candidates are required to execute a bond for Rs. 20,000/- (Rupees Twenty Thousand Only) stating that their ward will continue the course for full duration.		
Note: No fee shall be refunded on cancellation of admission or discontinuation			



### Course Details:

<b>Name of The Course</b>	<b>Advance Diploma in Tool &amp; Die Making (ADTDM)</b>	
<b>Objectives</b>	To Design & Manufacture intricate tools like Press Tools, Plastic Moulds, Jigs, Fixtures & Gauges etc. with exposure modern Die Design & Die Manufacturing technology independently	
<b>Duration</b>	04 Years	
<b>Intake</b>	60	
<b>Course Fees</b>	Rs.1,92,000/-	
<b>Eligibility</b>	10 <sup>th</sup> Std. with 60% marks in aggregate (50% for SC / ST candidates)	
<b>Age</b>	15 – 19 years as on 1 <sup>st</sup> July 2023 (3 years relaxation for SC/ST candidates)	
<b>Course Content</b>	<b>FIRST SEMESTER:</b> 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	<b>SECOND SEMESTER:</b> 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
	<b>THIRD SEMESTER:</b> 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	<b>FOURTH SEMESTER:</b> 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
	<b>FIFTH SEMESTER:</b> 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	<b>SIXTH SEMESTER:</b> 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
	<b>SEVENTH SEMESTER:</b> Project Work – Design & Manufacturing - Tools & Dies	<b>EIGHTH SEMESTER:</b> Project Work – Design & Manufacturing - Tools & Dies

### Course Details:

<b>Name of The Course</b>	<b>Diploma in Mechatronics (DIM)</b>	
<b>Objectives</b>	To acquaint the trainee with required knowledge in the field of Mechatronics for the application of Industrial automation & other areas of industrial application	
<b>Duration</b>	03 Years	
<b>Intake</b>	60	
<b>Course Fees</b>	Rs.1,44,000/-	
<b>Eligibility</b>	10 <sup>th</sup> Std. with 60% marks in aggregate (50% for SC / ST candidates)	
<b>Age</b>	15 – 19 years as on 1 <sup>st</sup> July 2023 (3 years relaxation for SC/ST candidates)	
<b>Course Content (Curriculum under development &amp; approval)</b>	<b>FIRST SEMESTER:</b> Communication Skills Applied Mathematics Applied Physics Chemistry of Engineering Materials Engineering Drawing Elements of Electrical Engineering Engineering Metrology Engineering Mechanics Workshop Technology Workshop Practice	<b>SECOND SEMESTER:</b> Communication Skills Applied Mathematics Applied Physics Chemistry of Engineering Materials Engineering Drawing Basics of Electronics Engineering Engineering Metrology Engineering Mechanics Workshop Technology Workshop Practice
	<b>THIRD SEMESTER:</b> Strength of Materials Electrical Machines Computer Applications Electronics Devices & Circuits Digital Electronics Electronics Workshop Materials Science Applied Mathematics Manufacturing Technology Network Theory	<b>FOURTH SEMESTER:</b> Theory of Machines Electrical Machines Computer Applications Power Electronics CNC Technology Linear Integrated Circuits Industrial Management Electronics Workshop Programmable Logic Controller Microprocessor & Microcontroller
	<b>FIFTH SEMESTER:</b> SCADA Hydraulics & Pneumatics CNC Programming & Machining Embedded Systems Robotics Electronic Circuit Design Control Devices	<b>SIXTH SEMESTER:</b> Mechatronics Technology Mechanical, Electrical & Electronics Maintenance Live Projects

**Course Details:**

<b>Name of The Course</b>	<b>Certificate Course in Machinist (Tool Room) (CCMTR)</b>	
<b>Objectives</b>	To produce different parts of Press Tools, Plastic Moulds, Jigs, Fixtures & Gauges etc. on conventional machine tools independently with exposure to CNC Technology	
<b>Duration</b>	02 Years	
<b>Intake</b>	40	
<b>Course Fees</b>	Rs. 80,000/-	
<b>Eligibility</b>	10 <sup>th</sup> Std. with 60% marks in aggregate (50% for SC / ST candidates)	
<b>Age</b>	15 – 19 years as on 1 <sup>st</sup> July 2023 (3 years relaxation for SC/ST candidates)	
<b>Course Content</b>	<b>FIRST SEMESTER:</b> 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	<b>SECOND SEMESTER:</b> 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
	<b>THIRD SEMESTER:</b> 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	<b>FOURTH SEMESTER:</b> 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 Schedule (2023-24)**

<b>ADTDM</b>	<b>01/08/2023 TO 30/06/2027</b>
<b>DIM</b>	<b>01/08/2023 TO 30/06/2026</b>
<b>CCMTR</b>	<b>01/08/2023 TO 30/06/2025</b>

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

## COURSE RULES FOR ADMISSION, EXAMINATION, EVALUATION & AWARD (CERTIFICATION)

### APPLICABLE FOR “ADVANCED DIPLOMA IN TOOL & DIE MAKING”, “DIPLOMA IN MECHATRONICS” & CERTIFICATE COURSE MACHINIST (TOOL ROOM)” SEMESTER PATTERN-FULL TIME

RULE NO.	DESCRIPTION OF RULE	
<b>1. Admission to the Course:</b>		
<b>RULE 1.1</b>	The candidates shall be admitted to the course for “Advance Diploma in Tool & Die Making” and “Certificate Course in Machinist (Tool Room)” as per the prescribed procedure for the admission.	
<b>2. Eligibility of the Award of Certificates</b>		
<b>RULE 2.1</b>	A candidate to be eligible for award of “Advance Diploma in Tool & Die Making” or “Certificate Course Machinist (Tool Room)” will be required to pass all the examinations prescribed for the course including the prescribed practical Training whatever applicable.	
<b>RULE 2.2</b>	The final grading leading to award of “Advance Diploma in Tool & Die Making” or “Certificate Course in Machinist (Tool Room)” will be determined by the aggregate marks obtained in all the semesters.	
<b>3. Issue of Certificates</b>		
<b>RULE 3.1</b>	<p>A candidate who has successfully passed all the examination prescribed for the course will be awarded “Advance Diploma in Tool &amp; Die Making” or “Certificate Course in Machinist (Tool Room)” through the Managing Director, IGTR only.</p> <p>A duplicate or further copy/copies of Award of Certificates will be issued to a candidate on payment of prescribed fees and on receipt of an application supported by an affidavit on Rs.20/- stamp paper duly notarized from the candidate. The application is to be routed through the Head of Training Centre, stating there in that original or duplicate or further copy/copies, as the case may be, issued to him previously is/are lost. Further copy shall be super-scribed as ‘DUPLICATE’, ‘TRIPLICATE’, ‘QUADRUPLICATE’ &amp; likewise, as the case may be.</p>	
<b>4. Admission to the Examination</b>		
<b>RULE 4.1</b>	<p>The candidate will not be admitted to any semester examinations unless he/she is satisfying the following conditions:</p> <p>a) Satisfactory minimum attendance of 90% of the total periods as conducted as per the syllabus for theory, practical, tutorials separately in each and every subject of the semester.</p> <p>b) Shall attain 50% of marks in their sessionals (continuous assessment) in each and every subject in each semester.</p> <p>c) Failing to achieve 50% of marks in each and every subject in every semester in sessionals, should repeat the semester and will not be allowed to appear for the semester examinations. Shall be required to rejoin in that semester and put in fresh sessional work in which he/she has failed to the satisfaction of HOD of Training centre before being eligible to reappear for that semester examination.</p> <p>d) Satisfactory progress in his/her status good conducts and / or character.</p> <p>e) Should not be debarred for any period from appearing any exams held by IGTR.</p>	
<b>5. Condonation of deficiency in attendance</b>		
<b>RULE 5.1</b>	In case of attendance falls short by not more than 10% due to illness (certified by the Medical Practitioner not less than the level of <b>Medical Officer</b> ) Managing Director, IGTR, may condone such deficiency and permit the candidate to appear for the examination, if the candidate is otherwise eligible.	
<b>6. No permission to disallowed candidates to appear for examination</b>		
<b>RULE 6.1</b>	The candidate who is disallowed from appearing at an examination for not fulfilling conditions specified above should not be permitted to appear for the examination unless he fulfils all conditions afresh.	
<b>7. Candidates fulfilling conditions under Rule 4, but could not appear at the Examination</b>		
<b>RULE 7.1</b>	A candidate who fulfils the conditions of semester prescribed above but could not appear at the semester examinations may appear for a subsequent examination as an ex-student. In such cases, the sessional work put in shall be preserved by HOD and presented for examination when such a candidate appears for the examinations. However, such sessional work shall not be preserved beyond one year.	
<b>8. Ex-Student</b>		
<b>RULE 8.1</b>	A candidate, who has fulfilled the conditions prescribed under Rule 4 and certified by the Managing Director or Training Centre Head as eligible for admission to an examination of semester shall be called ex-student for subsequent examination of that semester, if after such certification that candidate has not appeared or has appeared and failed in that semester.	
<b>9. Result of the Examination</b>		
<b>RULE 9.1</b>	<p>a) The result of the examination shall be declared by IGTR as early as possible after conducting of examinations but not later than a month.</p> <p>b) <b>The candidate will not be allowed to repeat any semester more than one time. If the candidate has to repeat the semester more than one time, he/she will not be eligible for continuation of the course.</b></p>	
<b>10. Affected Result prior to its declaration</b>		
<b>RULE 10.1</b>	<p>a) In cases, where the result of an examination is affected prior to its declaration either on account of large number of failures in the subjects due to question paper/s set being not within the scope of syllabus or on account of error, malpractice, fraud, improper conduct of examination or any other matter whatsoever nature, such matters will be placed before “Special Committee” appointed by Managing Director, IGTR for consideration and recommendation. The decision by Managing Director will be final and accepted as such.</p> <p>b) In case of where internal assessment marks of any class for particular batch is found to be abnormally high or low compared to the performance in previous batches, the matter to be placed before the “Special Committee”. The committee will examine and recommend for amending the result of such class accordingly. The decision by Managing Director will be final and accepted as such.</p>	
<b>11. Result of A.T.K.T.</b>		
<b>RULE 11.1</b>	A candidate passing minimum 2/3 (two third) of the total number of subjects prescribed for an examination will be allowed to keep term for next higher semester.	
N.B.: The table framed to indicate the application of A.T.K.T. Rules referred to above is given below :		
Total No. of subjects	2/3 of Total No. of subjects i.e. Minimum No. of subjects required to pass	Maximum No. of subjects failure of an examination prescribed for A.T.K.T.
1.	1	Nil
2.	2	Nil
3.	2	1
4.	3	1
5.	4	1
6.	4	2
7.	5	2
8.	6	2
9.	6	3
10.	7	3
11.	8	3
12.	8	4
13.	9	4
14.	10	4
15.	10	5
(Above will be Termed as A.T.K.T. Rules & shall be considered for counting subject & No. of subjects for A.T.K.T. thereby)		



<b>12. Admission to Higher Semester</b>	
<b>RULE 12.1</b>	A candidate who has been certified to be eligible for any of First, Third, Fifth & Seventh Semester Examination & fails in not more subjects than prescribed under A.T.K.T. can be promoted to next higher semester. Otherwise the candidate has to repeat the semester.
<b>RULE 12.2</b>	<p>A candidate who has been certified to be eligible at the First Semester Examination &amp; who passes at his/her first semester examination will be allowed to keep terms for second semester.</p> <p>No candidate will be allowed for Third Semester Examination unless he/she:</p> <p>a) Passes the examination of first &amp; second semester</p> <p style="text-align: center;"><b>OR</b></p> <p>b) Passes his First semester examination fully and fails in not more subjects than prescribed under Rule of A.T.K.T. at Second Semester Examinations.</p>
<b>RULE 12.3</b>	<p>A candidate who has been certified to be eligible at the Third Semester examination &amp; who passes at his Third Semester Examination will be allowed to keep terms for his Fourth Semester Examination.</p> <p>No candidate will be allowed for the Fifth Semester Examination unless he</p> <p>i) Passed the First, Second, Third &amp; Fourth Semester Examination.</p> <p style="text-align: center;"><b>OR</b></p> <p>ii) Passed the First, Second, Third Semester Examination and fails in not more subjects than prescribed under rule of A.T.K.T. at Fourth Semester Examination.</p>
<b>RULE 12.4</b>	<p>A candidate who has been certified to be eligible for the Fifth Semester Examination &amp; who passes at his Fifth Semester Examination will be allowed to keep term for the Sixth Semester Examination.</p> <p>No candidate will be allowed for Seventh Semester Examination unless he</p> <p>i) Passed the First, Second, Third, Fourth, Fifth &amp; Sixth Semester Examination.</p> <p style="text-align: center;"><b>OR</b></p> <p>ii) Passed the First, Second, Third, Fourth, Fifth Semester Examination and fails in not more subjects than prescribed under rule of A.T.K.T. at Sixth Semester Examination.</p>
<b>13. Verification of Marks obtained by a candidate in a subject</b>	
<b>RULE 13.1</b>	<p>a) Any candidate who appeared at the examination conducted by IGTR may apply to the Head of Training Centre for verification of marks in any particular subject. The verification will be restricted to checking whether all answers attempted by the candidate have been examined and there has been no mistake in the totalling of mark allotted to each answer of the question in that subject and such allotted marks to each answer are transferred correctly on the first cover page of the main answer book also answer books including supplements as mentioned by the candidate on cover page of main answer book are intact. No revaluation of the answer book or supplements shall be done.</p> <p>b) Such an application must be made by the candidate through the Head of Training Centre within 10 days from the declaration of the examination results and must be accompanied by a fee of Rs.50 for each subject head or fees as may be specified by IGTR from time to time.</p> <p>c) No candidate shall claim or be entitled to Revaluation or reassessment of his answers or disclosure or inspection of the answer books or other documents as, these are treated by the IGTR as most confidential.</p> <p>d) If, as a result of the verification made under this Rule, it is discovered that there has been either an omission to examine and to assign marks to any answer or answers or a mistake in the totalling of the marks, it shall be corrected by the Head of Training Centre duly attested and dated. As a result of this correction, the candidate's result, as already declared, is altered in any way, he shall be informed of his correct result.</p> <p>e) In any case, the fees for verification shall not be refunded to the candidate.</p> <p>f) If a candidate fails to apply for verification in a prescribed form giving there under full and correct information, within the prescribed date along with prescribed fees through the Training Centre Head then no steps shall be taken for verification. In such case the amount of the fee received shall be forfeited to the IGTR.</p>
<b>14. Issue of Statement of Marks</b>	
<b>RULE 14.1</b>	<p>a) A candidate appearing for an examination of the IGTR, may after the declaration of results obtain a certified statement of marks secured by him at the examination through the Head of Training Centre. Marks secured by a candidate in individual question or section of paper will not be supplied.</p> <p>b) For duplicate mark sheets a candidate will have to apply to the Managing Director along with affidavit on Rs.20/- stamp paper duly notarized for loss of original mark sheet and pay prescribed fee for duplicate statement of marks.</p>
<b>15. Reversal of Results</b>	
<b>RULE 15.1</b>	In any case, where the result of an examination is declared, and it is found that such result has been affected by any error (except those covered under malpractice, fraud or improper conduct) such cases shall be placed before the Special Committee appointed by the Managing Director, IGTR for scrutiny. The Managing Director, IGTR as per the recommendation of the Special Committee shall have the power to amend such result in such manner as shall be in accordance with the true position. No result shall however, be amended after one month from the date of declaration of result or after the commencement of the next examination at the same level whichever is earlier.
<b>16. Penalty for Acts of Misconduct of the Candidates</b>	
<b>RULE 16.1</b>	If before, during or after the examination, it is found/reported that a candidate has been guilty of misbehaviour or misconduct including breach of any of the rules laid down for the proper conduct of examination then the Managing Director on receipt of such report or when Managing Director comes to know & is convinced of such possible misconduct, misbehaviour on the part of the candidate, shall order for enquiry by appointing the Enquiry Officer. The candidate shall remain present at enquiry centre on the date and time of enquiry as specified. In case if the candidate is not present at the time and date of enquiry, the enquiry officer shall report the finding based on the available records of the case. The Managing Director place enquiry report before the Special Committee for recommendation. The Managing Director, IGTR as per the recommendation of the special committee shall have the power to take appropriate action.
<b>RULE 16.2</b>	If during the examination a candidate has been found to have copied or attempted to copy or helped to copy or used or attempted to use unfair means at the examination & unless he/she is caught with positive evidence of copying material brought from outside or for gross misbehaviour, he/she should not be expelled from the examination & be provisionally permitted to appear for the remaining/full examination by the Officer-in-charge of the examination at the centre by substituting fresh answer-books after obtaining an undertaking in writing from him/her & then make a report in this respect to the Managing Director, IGTR. The Managing Director shall place such cases before the Special Committee for recommendation. The Managing Director, IGTR as per the recommendation of the special committee shall have the power to take appropriate action.
<b>RULE 16.3</b>	If after the examination copying / misbehaviour cases are found at the place of Assessment while assessing the answer-books, then the faculty shall report such cases to the Head of Training Centre as the case may be, with his observations & Training Centre Head shall report such cases along with the report of the faculty to the Managing Director, IGTR. The Managing Director on receipt of such report shall order for enquiry and place such cases along with the enquiry report before the "Special Committee" for recommendation. The Managing Director, IGTR as per the recommendation of the special committee shall have the power to take appropriate action.
<b>RULE 16.4</b>	<p>a) The Managing Director, IGTR, shall have the power to cancel the result of the candidate in the examination at which he appeared &amp; also debar him from subsequent examinations either permanently or for such a specified period as the "Special Committee" appointed by the IGTR may deem fit, in all above cases.</p> <p>b) The candidate whose result is thus cancelled &amp; who is further excluded from the examination, for a specified period shall be eligible to re-appear as an ex-student after the expiry of the period, for which he is otherwise eligible. During the period of punishment such candidate shall not be eligible for admission to any of the examination both for lower &amp; higher semester.</p>

<b>17. The limit for preservation of assessed answer-books</b>	
<b>RULE 17.1</b>	The assessed answer-books of an examination shall be preserved till the declaration of results of two consecutive subsequent semester examinations held by the IGTR irrespective of whether a candidate appears for consecutive two subsequent semester examinations or otherwise.
<b>RULE 17.2</b>	<p>a) Whenever revised curriculum will be implemented, the failed student of previous curriculum will be allowed to appear for 4 consecutive examinations after the introduction of revised curriculum. After his limit the eligible students will have to appear to equivalent/ substitute subjects decided by the Examination Committee of IGTR.</p> <p>b) The details of Subjects/Substitute Subjects shall be communicated to all prior to the First Examination of Revised Curriculum.</p>
<b>18. Teaching &amp; Examination Scheme</b>	
<b>RULE 18.1</b>	The teaching & examination scheme for the "Advance Diploma in Tool & Die Making" or "Certificate Course in Machinist (Tool Room)" Semester pattern shall be as per syllabus and examination scheme prescribed subject to such revision and modifications made from time to time.
<b>RULE 18.2</b>	<b>Evaluation Pattern</b> – The detail evaluation pattern is given below:

		EVALUATION PATTERN										PASSING			EVALUATION DURATION X INSTANCES				
TYPES OF EVALUATION PATTERNS		EVALUATION PATTERN										SESSIONAL (Min. 50%)	SEMESTER EXAM (Min. 50%)	Min. pass in subject	Class Test	Semester Exam (Theory)	Termwork	Semester Exam(practical) HELD PRIOR TO SEMESTER EXAM (THEORY)	Semester Exam(practical) HELD WITH SEMESTER EXAMS (THEORY)
		SESSIONAL (40% of Total Marks)																	
		Class Test	Work Book, Assignments & Behaviour (3 times at regular interval)	TERM WORK					SEMESTER EXAM (80% of Total Marks)	TOTAL MARKS									
				Planning & Process Evaluation	Practical exercise / Product mfg	Viva Voce / Presentation	Report	THEORY			PRACTICAL								
THEORY SUBJECTS																			
GENERAL THEORY	T1	30	10	*	*	*	*	60	*	100	20	30	50	1h X 3x	3h X 1x	*	*	*	
WORKSHOP TECHNOLOGY	AV	30	10	*	*	*	*	60	*	100	20	30	50	*	*	*	*	*	
	T2	30	10	*	*	*	*	60	*	100	20	30	50	1h X 3x	2h X 1x	*	*	*	
	T2	30	10	*	*	*	*	60	*	100	20	30	50	1h X 3x	2h X 1x	*	*	*	
	T2	30	10	*	*	*	*	60	*	100	20	30	50	1h X 3x	2h X 1x	*	*	*	
	T2	30	10	*	*	*	*	60	*	100	20	30	50	1h X 3x	2h X 1x	*	*	*	
PRACTICE SUBJECTS																			
WITHOUT CLASS TEST & SEM. EXAM	P1	*	10	*	*	10	30	*	*	50	25	*	25	*	*	7wks X 3x	*	*	
ENGG. METROLOGY	P2	*	*	10	30	*	*	60	100	20	30	50	*	*	7wks X 3x	*	1.5h X 1x		
CNC PROGRAMMING, CA,AUTOCAD,MDT	P3	*	*	10	30	*	*	60	100	20	30	50	*	*	7wks X 3x	*	3h X 1x		
ENGG.DRG,PRACTICE	P4	*	*	10	30	*	*	60	100	20	30	50	*	*	7wks X 3x	*	4h X 1x		
TOOL DESIGN PRACTICE	P5	*	*	10	30	*	*	60	100	20	30	50	*	*	7wks X 3x	*	5h X 1x		
	P6	*	*	10	50	*	*	90	150	30	45	75	*	*	7wks X 3x	*	5h X 1x		
WORK SHOP PRACTICE CNC MACHINING	AV	*	*	30	100	20	10	240	400	80	120	200	*	*	*	*	*		
	P7	*	*	30	100	20	10	240	400	80	120	200	*	*	5wks X 1x	6h X 1x	*		
	P7	*	*	30	100	20	10	240	400	80	120	200	*	*	5wks X 1x	6h X 1x	*		
	P7	*	*	30	100	20	10	240	400	80	120	200	*	*	5wks X 1x	6h X 1x	*		
	P7	*	*	30	100	20	10	240	400	80	120	200	*	*	5wks X 1x	6h X 1x	*		
TOOL & DIE MAKING (EXERCISES)	AV	*	*	30	100	20	10	240	400	80	120	200	*	*	*	*	*		
	P8	*	*	30	100	20	10	240	400	80	120	200	*	*	7wks X 1x	12h X 1x	*		
	P8	*	*	30	100	20	10	240	400	80	120	200	*	*	7wks X 1x	12h X 1x	*		
	P8	*	*	30	100	20	10	240	400	80	120	200	*	*	7wks X 1x	12h X 1x	*		
TOOL & DIE MAKING (PRODUCTION ORDERS)	P9	*	*	60	300	20	20	*	400	200	*	200	*	*	7wks X 3x	*	*		
INPLANT	P10	*	25	*	*	75	300	*	400	200	*	200	*	*	20wks X 1x	*	*		
PROJECT	P11	*	25	*	300	75	200	*	600	300	*	300	*	*	20wks X 1x	*	*		

AV = Average

<b>19. Standard of Passing and Award of Class</b>			
<b>RULE 19.1</b>	<b>SESSIONAL WORK &amp; SEMESTER EXAM PASSING CRITERIA</b>	THEORY & PRACTICAL SUBJECTS	MIN. 50% MARKS
<b>RULE 19.2</b>	The examination in Theory paper shall be as per scheme of examination as prescribed in syllabus and average of test marks shall be as prescribed in scheme of examination wherever applicable.		
			<50% MARKS - FAIL

<b>20. Award of Aggregate</b>		
<b>RULE 20.1</b>	<b>% OF MARKS OBTAINED (Only passed Candidates)</b> Semester-wise & Consolidated Mark List	<b>Grade</b>
	>= 85%	<b>DISTINCTION</b>
	>= 70% TO < 85%	<b>FIRST</b>
	>= 60% TO < 70%	<b>SECOND</b>
	>= 50% TO < 60%	<b>PASS</b>
The final grading of the "Advance Diploma in Tool & Die Making" or Certificate Course in Machinist (Tool Room)" shall be awarded on the basis of the total aggregate marks obtained in all the semesters.		

## RULES FOR AWARDING OF CERTIFICATE

The evaluation system consists of continuous assessment of each module / subject to assess the performance of trainee. Trainees who qualify in the examination shall be placed in different divisions according to the average marks obtained. i.e.

- Distinction >75 %
- First Class > 60%&<75%
- Second Class>50%&<60%
- Pass<50

**COURSE COMPLETION AND AWARD:** Candidates selected for the above courses will be awarded the course certificate only if he / she completes the course in stipulated time (Maximum allowable duration is 1.5 times of the course duration). Otherwise candidate will not be awarded the course certificate. A candidate of four years duration course should complete his course in 6 years only , a candidate of three years course should complete his course in 4.5 years and a candidate from a two years years course should complete his course fin 3 years (from the date of first joining of the course).

## GENERAL INFORMATION

<b>Working Hours:</b>	8 hours per day (excluding lunch), six days per week
<b>Attendance:</b>	It is compulsory to attain 90% attendance for appearing semester and final exams in all the training courses.
<b>Original Certificates:</b>	Original certificates of school Leaving certificate and mark sheet of 10 <sup>th</sup> Standard (Caste certificate for reserved Candidates) are to be deposited with IGTR by the selected candidates at the time of admission, which will be returned after completion of the course only.
<b>Institute:</b>	Institute Security Deposit is to be paid
<b>Security Deposit:</b>	towards the caution money against the Tools & Instruments, etc. whichever will be issued to the Trainees. This amount is refundable at the time of leaving after completion of course and on production of no dues from the concerned sections.
<b>Uniform &amp; Safety Shoes.</b>	Trainees shall be required to wear uniform & shoes as prescribed by the Institute
<b>Hostel:</b>	Separate hostel facilities may be provided for outstation boys & girls subject to the availability of the accommodation at the discretion of the Institute.
<b>Mess:</b>	Membership of mess is compulsory for all the inmates. The Mess charges for the entire semester have to be deposited in advance. The Mess charges shall be decided by a Mess Committee for every

## HOLIDAYS AND LEAVES

<b>Holidays:</b>	There are maximum of 17 holidays fixed by the Management during each calendar year.
<b>Vacation:</b>	There are maximum of 15 days' vacation after completion of each semester. The period of vacation will be declared at the end of each semester. (There will be a variation on the duration of vacation)

## DISCIPLINE AND PERFORMANCE

The trainee is bound by the Rules and Regulations of the IGTR as laid down by the Management from time to time. The trainee and his guardian will have to give an undertaking to this effect. Wherever it is found necessary, IGTR will take strict disciplinary action as stipulated in the Rules of the IGTR. This may amount to a warning, suspension or termination as the case warrants. In case of unsatisfactory progress of a trainee, the Management will fix a period of probation and give notice in writing to the trainee and the guardian. In case no improvement is evident within the specific period, the traineeship will be terminated.

## GENERAL RULES & REGULATIONS

1. Admissions are open for Boys & Girls; eligible candidates will be offered admission on first come-first-serve basis as per norms.
2. IGTR / Centre reserves the right to reject any application without assigning any reason. Incomplete applications are liable to be rejected.
3. Reservation as per Government of India norms for AICTE / NSQF compliant courses only.
4. In case of Non NSQF Compliant Courses, Tuition Fee / Course Fee exemption will not be applicable for SC / ST Candidates.
5. Candidates belonging to reserved category should substantiate their claim by enclosing a Caste certificate issued by competent authority.
6. Medium of instruction is English only.
7. **Caste Certificate & all necessary educational certificates in original form issued by competent authority is to be produced for verification at the time of admission which may be re-verified from the issuing authority if required.**
8. Admission to the course will be given only on deposition of registration fee, other fee, first semester tuition/course fee, Security deposit along with submission of relevant educational documents & caste certificate as applicable.
9. **Registration Fee / Course Fee is non-refundable / non-transferrable in case any candidate cancels his admission for any reason.**
10. GST 18% Extra as applicable on registration & Course / Tuition Fees for Non NSQF Complaint Courses will have to be paid by the candidate.
11. **Payment of Fee:** Any fee for admission to the course / Training program should be deposited online through SBI collect option available on <https://www.onlinesbi.com> or can be deposited in the **SBI Power Jyoti Account (Account No. 34008490415)** at any Branch of State Bank of India in the prescribed form (Challan form) available on the IGTR web site. **Registration fee (Non Refundable) to be paid at the time of registration to course**, balance fee (Security Deposit / Course Fee) to be paid on confirmation of admission to the course by IGTR / Centre. No fee will be accepted by Cash / Cheque / D.D. Payment of fee can also be done through on line S B Collect Using Link. <https://www.onlinesbi.com/sbicollect/collecthome.htm> or through **BHIM - UPI Payment** Application on IGTR SBI Account no. 52021922968 IFSC Code SBIN0003449
12. **Course fee once paid will not be refunded under any circumstances.**
13. **Security Deposit will be refunded only on successful completion of the course.**
14. **Security Deposit shall be refunded only on submission of No Dues certificate along with original Receipt of the Security Deposit. Security Deposit Shall be forfeited, in case of loss of original receipt of the security deposit.**
15. Admission to the course once confirmed will not be cancelled / transferred under any circumstances & fees paid will be forfeited.
16. **Course fee for the higher / next semester has to be paid within one week from the starting date of semester. All the candidates belonging to SC/ST category have to fill in fresh application form every three months from the starting date of Course. Late fee will be charged as a fine from the due date as applicable for all trainees.**
17. IGTR / Centre reserves right to incorporate changes in course content, duration, intake capacity, No. of batches & course fee without prior notice. **The course fees as applicable at the starting of the batch / Course will have to be borne by the candidate, including taxes.**
18. Change of batch / Course or Re-admission to the courses may be permitted on payment of extra charges as applicable.
19. Registration Form is for application to the course for admission purpose only
20. Movement of trainee within the campus shall be restricted to his / her allotted work place.
21. All the trainees will ensure discipline within the campus.
22. Regular attendance will have to be maintained by the trainee as per course schedule & 90% attendance is compulsory in all subjects **individually.**

23. All the internal assessments, assignments, evaluations will have to be attended / completed from time to time as per course schedule only.
24. Working hours are 8 hrs / day (excluding lunch) in different shifts / timing as prescribed by the IGTR / Centre.
25. The machines / Equipment / Furniture must be handled carefully. No act of damage to IGTR / Centre property shall be carried out by the trainee. Any loss or damage to property, fine as charged by management to be paid by the trainee.
26. Trainee have to ensure the proper utilization of IGTR / Centre property including Water & Electricity usage.
27. **Laptop, Mobile phone, Pen Drive, CD or any other related items are not permitted inside IGTR / Centre premises.**
28. Trainee shall be required to wear uniform and shoes as prescribed by the IGTR / Centre and possess I-Card compulsory during training.
29. **Trainees will abide by the examination rules and regulations displayed on Notice Board of IGTR / Centre and as amended from time to time.**
30. Leave without information / permission will not be entertained.
31. Trainees going on leave or to home during vacation should inform the Course Co-ordinator compulsory.
32. Study material Shall be provided on extra cost as applicable.
33. IGTR / Centre is not responsible for any loss / damage of individual / personal property within around the campus.
34. No trainee shall organize / conduct any meeting within the campus.
35. Smoking & Chewing Tobacco, possessing or drinking Alcoholic beverages in any form is strictly prohibited within IGTR / Centre premises.
36. **Ragging is strictly prohibited in the Premises.**
37. Writing any comment / Remarks/ Name on Doors, Walls, Toilet, Notice Board is strictly prohibited.
38. Violations of above & any other Rules, Regulations, Disciplines and Conduct etc. are liable for disciplinary action as per the rules of the institute

## HOSTEL ACCOMMODATION

Separate hostel facilities may be provided for outstation boys & girls Subject to the availability of the accommodation at the discretion of the institute on extra cost as applicable.

## HOW TO REACH IGTR

### TRAVEL GUIDE

- RAILWAY STATION TO IGTR - 8 KM
- BUS STAND TO IGTR - 9 KM
- AIR PORT TO IGTR - 5 KM



## INFRASTRUCTURE AT GLANCE

- TOTAL PLOT AREA - 51878 Sq. Mtr.
- SANCTIONED ELECTRIC POWER - 1500 KVA
- ADMINISTRATION
- TRAINING
- ADVANCE TRAINING CENTER
- PRODUCTION
- MULTIPURPOSE AUDITORIUM
- OVERHEAD & UNDERGROUND WATER RESERVOIRS
- COMMUNITY CENTRE
- BUILT UP AREA - 32092 Sq. Mtr
- CAPTIVE POWER GENERATION - 2X320 KVA
- CENTRAL AIR CONDITION UNIT
- COMPRESSED AIR SUPPLY
- CANTEEN
- BOYS HOSTEL
- GIRLS HOSTEL
- INTERNATIONAL HOSTEL
- RESIDENTIAL COMPLEX



## TRAINING

### WIDE SPECTRUM OF LATEST & ADVANCE MACHINE SET UP

#### CNC MILLING

DECKEL MAHO 50T  
BFW SURYA - VF30  
ACE - MCV350 / SPARK XL  
JYOTI - PX30  
HAAS - TM1

#### CNC LATHE

ACE - JOBBER JUNIOR / JE06LM  
JYOTI - DX 150  
HAAS - TL1  
ACE - TUTOR

#### CNC WIRE CUT

ELECTRONICA - SPRINTCUT  
ELECTRONICA - ECOCUT

#### CNC SPARK EROSION

ELECTRONICA - EXPERT  
ELECTRONICA - ZNC

#### PRECISION SURFACE GRINDER

PROTH PSGS3060BH  
KENT

#### SURFACE GRINDER

KIRLOSKAR

#### TOOL & CUTTER GRINDER

PRAGA 3197

#### CYLINDRICAL GRINDER

HMT K 130  
PARISHUDH

#### SP3D PANTOGRAPH ENGRAVING

PRECISION ENGL. /MH 45

#### CONVENTIONAL MILLING

BFW - UF 2  
BFW - VF 2  
BFW - VF 1  
HMT - FN 1U  
MI TR

#### UNIVERSAL MILLING

MIKRON WF 3 SA

#### CONVENTIONAL LATHES

GEDEE WEILER LZ 350  
KIRLOSKAR ENTERPRISE 380  
KIRLOSKAR ENTERPRISE 355  
HMT NL 22  
PIONEER 350

#### HYDRAULIC TRAINING KIT

FESTO (DUAL STATION)  
(BASIC, ELECTRO & ADVANCE)

#### PNEUMATIC TRAINING KIT

FESTO (DUAL STATION)  
(BASIC, ELECTRO & ADV.)

#### PLC PROGRAMMING KIT

SIEMENS S71500  
ALLEN BRADLEY S7300  
AUTOMATION

VLS I

SCADA

PCB

EMBEDDED SYSTEMS

MECHATRONICS KIT

6 AXIS ROBOTS

PROCEES CONTROL AUTOMATION

AUTOTRONICS LAB

#### WELDING

GAS, ARC  
MIG/MAG/TIG

#### 3D PRINTER

ADROITEC RXP 2200

#### 3D SCANNER

MLT, 1M,5.0 MP R

#### TOTAL STATION

TRIMBLE SPECTRA 2"

## PRODUCTION

### ULTRAMODERN STATE-OF-THE-ART TOOL ROOM FACILITIES

#### CNC-5 AXIS HIGH PRECISION

##### MACHINING CENTRE

HERMELE C 32 U

#### CNC-5 AXIS MILL TURN

HERMELE C 62 MT

#### CNC-5 AXIS MACHINING

HERMELE-B 300, HAAS 500

#### CNC MACHINING CENTRE

DECKEL - MAHO DMC 100V

DECKEL - MAHO DMC 70V

DECKEL - MAHO DMC 70V Hi-dyn

HARTFORD HB2150 SG

MAKINO- V33

HAAS - VF2

HAAS - VF1

HAAS - VM6

#### CNC TURN / MILL

HAAS-ST 20 SSY

#### CNC MILLING

MIKRON - UME 710

MIKRON - WF - 52D

#### UNIVERSAL MILLING

MIKRON WF 3 SA, 2 SA

UNION MILLING

HMT M1 TR

BFW UF 2, 3.5

BPW VF 3.5

#### CNC HIGH PRECISION LATHE

SCHAUBLIN 125 CCN

#### SINGLE DOUBLE CHAMBER FURNACE

NOLZEN (GERMANY)

#### CNC JIG GRINDING

HAUSER H 45

#### JIG BORING

HAUSER B-3 DR

#### CNC SURFACE GRINDER

BLOHM - PLANOMAT HP 408

#### CNC CYLINDRICAL GRINDER

STUDDER S 33

SCHLEIF SA 5/2 U

#### PRECISION SURFACE GRINDER

ELB OPTIMAL 8550 ND, 4250 ND

KENT 715 SERIES

KENT WM 263 S Series

JUNG JF 520

#### CNC WIRE CUT

AGIE CHARMILLES - CUT 400

AGIE CHARMILLES - 440CCS

CHARMILLES ROBOFIL 510

CHARMILLES ROBOFIL 300

CHARMILLES ROBOFIL 290

ELECTRONICA ULTRA CUT S1

ELECTRONICA ULTIMA

#### CNC SPARK EROSION

CHARMILLES ROBOFORM 20

CHARMILLES ROBOFORM 40

AGIETRON ADVANCE

MITSUBISHI E A 30

#### HIGH SPEED DRILLING

CHARMILLES ROBODRILL R20

#### VACUUM HARDENING FURNACE

NOLZEN (GERMANY)

#### 3D MANUFACTURING METAL

EOS M 280

#### 3D MANUFACTURING PLASTICS

EOS P 396

DLP Figure 4 Standalone 3D Systems,  
USA

FDM AMS HYRWEL HYDRA 16AX

#### 3D SCAANER

STEINBICHLER, COMET3D 5M

5M-250-25.0MM

#### CNC LATHE

GLIDEMEISTER CTX 400 E

HAAS - TL 1

HONOR - V400C

HAAS-SL 20

#### CENTRE LATHE

WEILER COMMODER, CONDOR

HMT NL 22

GEEDDEE WEILER

#### MECHANICAL PRESS

NARENDRA 3000 KN

ZEULENPODA 1250 KN

#### HYDRAULIC PRESS

DUNKES TYPE HZS 63

#### INJECTION MOULDING M/C

L & T DEMAG DL 250 T

BATTENFIELD DBA 100 T

SHIBUARA 160T

#### HARDNESS TESTER

BRINAL & VICKERS

ROCKWELL

## QUALITY ASSURANCE

### HIGH PRECISION QUALITY ASSURANCE & CALIBRATION SERVICES

#### CO-ORDINATE MEASURING MACHINE

CARL - ZEISS PRISMO VAST 5.  
BROWN & SHARPE Hexagon Metrology  
Global Performance 050705

#### LINEAR HEIGHT MASTER

MITUTOYO

#### SURFACE FINISH TESTER

HOMMEL

#### TOOL MAKERS MICROSCOPE

CARL ZEISS (10x 30x)

#### PROFILE PROJECTOR

BATY

#### 3D SCANNER

STEINBICHLER

COMET 5D ZEISS

BLUE LIGHT SCANNER

Resolution: 2448X2050

Measurement Volume in Mm3:

45 Field-of View: 45x38x30

75 Field-of View: 74x62x45

250 Field-of View: 260x215x140

500 Field-of View: 480x400x250

## NABL ACCREDITED CALIBRATION LAB

Calibration Services are offered for Precision measuring equipment like:

**VERNIER CALIPER MICROMETER HIGHT GAUGE LEVER DIAL PLUNGER DIAL**

### LASER CALIBRATION SYSTEM

CALIBRATION OF CNC MACHINE LINEAR MOVEMENT ACCURACIES RENISHAW'S XL-80 FOR LINEAR MEASUREMENT

## SUCCESSFUL PLACEMENT / EMPLOYMENT



- Many of the IGTR trainees have established their own industry, have been employed abroad in countries like U.S.A., CANADA, NETHERLANDS, FRANCE, JAPAN, HONG KONG, AUSTRALIA, SOUTH KOREA, MALAYSIA, SINGAPORE, PHILIPPINES, etc and also pursuing their higher education in India / Abroad.
- IGTR makes efforts to contact & invite companies to conduct campus interviews, however no guarantee can be given for placement / employment.



## CLEAN, GREEN & DUST FREE ENVIRONMENT



ADMINISTRATION



AUDITORIUM



CANTEEN



TRAINING



PRODUCTION



HOSTEL

## TRAINING AT GLANCE



ISO 9001:2015



ISO 14001:2015 / ISO 45001:2018



ISO 50001:2011



## MSME TECHNOLOGY CENTRE INDO GERMAN TOOL ROOM, AURANGABAD

P 31 MIDC INDUSTRIAL AREA, CHIKALTHANA  
AURANGABAD (MS) INDIA PIN 431 006

Phone; 91 – 240 – 2610100, Extn 411 / 430 / 431 / 432 / 501, Mobile: +919373161252, +919373161253

E-mail: [gm@igtr-aur.org](mailto:gm@igtr-aur.org)

Web Site: <http://www.igtr-aur.org> [www.igtr-aur.gov.in](http://www.igtr-aur.gov.in)

Follows us: [Indo German Tool Room – Aurangabad – M.S.](#) [@igtrAurangabad](#)



### PUNE

#### MSME-TR – MSME DI CAD/CAM TRAINING CENTRE

Swargate, Shankarshet Road,  
Near PMT Workshop, **Pune**  
Maharashtra, India. **Pin– 411 037**  
Phone: 91-20- 24440861  
Fax : 91-20- 24440862  
Email: [igtr\\_pune@yahoo.co.in](mailto:igtr_pune@yahoo.co.in)

### PUNE

**IGTR EXTENSION CENTRE MSIE PUNE**  
**MAHASAINIK INDUSTRIAL ESTATE**  
(MSIE)Plot No T-153/1, MIDC, Pimpri  
Industrial Area, Bhosari, **Pune**,  
Maharashtra, India. **Pin- 411 026**  
Phone: 91-20- 27121100, 27121122  
Email: [igtrecmsie@igtr-aur.org](mailto:igtrecmsie@igtr-aur.org)

### NAGPUR

**IGTR AURANGABAD EXTENSION  
CENTRE, NAGPUR**  
E-142, MIDC HINGANA, **Nagpur**  
Maharashtra, India Pin- 440 006  
Phone: 91-7104-297136  
MOB:91-9075095552  
Email: [training\\_ngp@igtr-aur.org](mailto:training_ngp@igtr-aur.org)

### MUMBAI

#### MSME DI – MSME-TR CAD/CAM TRAINING CENTRE

Saki Naka, Kurla–Andheri Road,  
**Mumbai**  
Maharashtra, India Pin – 400 072.  
Phone: 91-22-28573020, 28573024  
Fax No. 91-22-28570663  
Email: [training\\_mumbai@igtr-aur.org](mailto:training_mumbai@igtr-aur.org)

### KOLHAPUR

**IGTR AURANGABAD EXTENSION  
CENTRE, KOLHAPUR**  
**ADVANCE TECHNOLOGY CENTRE**  
(A Joint Collaboration between Shivaji  
University, Kolhapur and IGTR,  
Aurangabad Extension Centre)  
Shivaji University, Vidyanagar,  
Kolhapur,  
Maharashtra, India Pin– 416004  
Email: [atckolhapur@igtr-aur.org](mailto:atckolhapur@igtr-aur.org)

### WALUJ (AURANGABAD)

**IGTR AURANGABAD EXTENSION  
CENTRE WALUJ**  
Plot No E-179, MIDC, Industrial  
Area, Waluj, Aurangabad  
Maharashtra, India. **Pin- 431 136**  
Mobile: +919373161252, +919373161253  
Email: [igtrecwaluj@igtr-aur.org](mailto:igtrecwaluj@igtr-aur.org)