



MSME TECHNOLOGY CENTRE BHIWADI

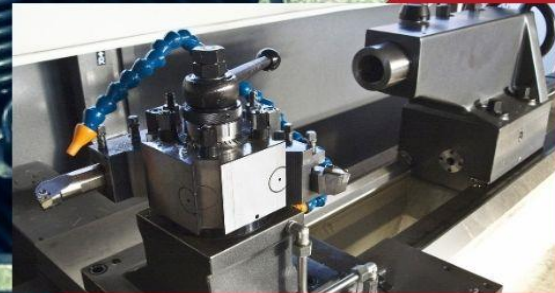
DIPLOMA PROSPECTUS 2023-24

**100%
PLACEMENT
ASSISTANCE**

**AICTE APPROVED
COURSES**

⇒ **ADVANCE DIPLOMA IN TOOL AND
DIE MAKING**

⇒ **DIPLOMA IN MECHATRONICS**



**MSME TECHNOLOGY CENTRE BHIWADI, PLOT NO. SP3 - 871 (A), 872,
RIICO INDUSTRIAL ESTATE PATHREDI, BHIWADI, RAJASTHAN 301019**

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IMPORTANT DATES

Commencement of Online Registration	15TH May 2023
Last Date of Online Registration	26th July 2023
Entrance Examination	30th July 2023
Merit List	31st July 2023
Admission / Counselling Schedule	01st Aug to 3rd Aug 2023
Commencement of Course	7th Aug 2023

INTRODUCTION

MSME Technology Centre, Bhiwadi is a premium skill development and manufacturing technology centre established through the Ministry of Micro, Small and Medium Enterprises, Govt. of India under the auspices of World Bank. The primary objective of the TC is to provide the world-class education, skill development training and conduct innovation research at the interface of multiple disciplines to create high quality human resources in disciplinary and interdisciplinary areas of Engineering Technologies.

The Technology Centre manufactures high precision tools, Dies, Jigs & Fixtures and Moulds etc. and Provides technological support and skilling manpower to MSMEs and other Industries. It also works on Job work basis for manufacturing and inspection of precision components.

MSME TC Bhiwadi conducts AICTE Approved Diploma Courses in Tool & Die making, Mechatronics and Logistics Technology and is also conducting various short and medium term courses in various technologies from design software to manufacturing.

ACTIVITIES

TRAINING

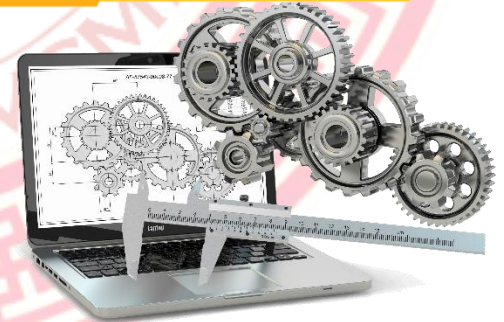
- ☐ Long Term Course
- ☐ Medium Term Courses
- ☐ Short Term Courses
- ☐ Tailor made Courses
- ☐ Courses for International Trainees
- ☐ Seminars and Workshops

DESIGN & MANUFACTURING

- ☐ Design & Manufacturing of Tools.
- ☐ Dies & Moulds
- ☐ Job work
- ☐ Precision Tools & Components.
- ☐ Precision machining
- ☐ Product Design and Development.

CONSULTANCY & OTHERS

- ☐ Process & Product Improvement
- ☐ Automation Solutions
- ☐ Reverse Engineering
- ☐ Product development
- ☐ Quality System Support
- ☐ Turnkey Assignments
- ☐ Course Curriculum developmen



FACILITIES AT MSME TECHNOLOGY CENTRE BHIWADI

The Technology Centre would be equipped with:

- Full-fledged training workshop
- Well-equipped Mechatronics & Robotics Kits 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
- Robotics & Automation
- Hydraulic & Pneumatic
- Welding

MAIN OBJECTIVES

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

- Training to the students in Tool & Die Technology, CAD/CAM solutions
- Training in Mechatronics & Robotics for Industrial automation solutions
- Design development & Manufacturing of Quality Press Tools, Molds, Dies, Jigs & Fixtures, Gauges etc.
- Training on product developments.

COURSE 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 & METHODOLOGY

- Maintaining a scientific blend of theory and practice, the trainee would be equipped to apply the acquired knowledge.
- The Centre would be equipped with state-of-art sophisticated imported machines and equipment incorporating latest CNC, CAD/CAM, CAE, Mechatronics & Robotics Technology, 3D Scanning, and 3D Printing etc.
- The training would be 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 up gradation 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.

SCHEDULED DETAILS:

Admission to the following courses are offered through Entrance Examination for the Academic year 2023-24

THE COURSE DETAILS ARE:

COURSE	DURATION	INTAKE	MINIMUM QUALIFICATION	AGE	TUITION FEES/PER ANNUM
ADVANCE DIPLOMA IN TOOL & DIE MAKING (AICTE Approved)	Four Years	60	10th/ SSC Passed with Science and Math's with 50% marks in aggregate of all subjects(40% for the candidates belonging to SC/ST category)	15-19 Years as on 31-07-2023 for SC/ST candidates (3 years age relaxation)	Rs. 38,000 (Rs 19,000 per semester)
DIPLOMA IN MECHATRONICS (AICTE Approved)	Three Years	60			

MSME TC Bhiwadi has received approval from All India Council of Technical Education (AICTE) New Delhi & NOC from Govt. of Rajasthan to conduct above courses from this Academic year 2023-24. The selection / admission of students on merit basis (Entrance examination) and may be changed to current condition at the time of admission.

HOW TO APPLY:

Candidate willing to take for any of the course mentioned above will have to register his Admission / her candidature for the Entrance Examination by the on-line Registration process through the link available on the MSME-TC Bhiwadi web site <http://msmetcbhiwadi.org/>. The candidate has to make the payment for registration to on-line Entrance Examination through the link provided in the on-line Registration Process. The Registration Fee of Rs.500/- (Rs.300/- 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. Candidates will be allowed to appear for on-line Entrance Examination after successful submission of online registration. The admit card to appear for on- line Entrance Examination would be E-mailed to the candidate at their given E-mail address.

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 MSME TECHNOLOGY CENTRE BHIWADI for admission to the AICTE approved 4 years Advance Diploma in Tool & Die Making and 3 years Diploma in Mechatronics from the academic year 2023-24. For details, check Admission Notice available on Website.
3. Candidates can apply for Registration to Entrance Examination 2023 "Online" only.
4. **Assistance for Registration to Entrance Examination 2023 and for downloading the Admit Card is available at MSME TECHNOLOGY CENTRE BHIWADI Free of Cost.**
5. A candidate can register for the Entrance Examination 2023 on filling the basic information along with educational qualification details and further payment of fees for the Entrance Examination, candidate can generate Registration Confirmation. A copy of the same will be forwarded to the candidate's registered Email ID.
6. **Admit Card with allotted Roll No., Exam Time and Location for appearing the Entrance**

Examination 2023 will be E-mailed to candidate between 27TH July to 29TH July 2023 on his / her registered Email ID.

7. For any help, please forward your queries to admission.tcbhiwadi@gmail.com & trg.eng@msmetcbhiwadi.org or call on 0149-3242 101 /139, 93731612 59 /60, 8595459104 & 8595447671
8. Candidate is allowed to 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.
9. Candidates, those who have passed 10th / SSC examination with Science and Mathematics with 50% marks in aggregate of all subjects (40% for the candidates belonging to SC/ST category) are eligible to appear in Entrance Examination 2023 Also Candidates, those who have appeared for 10th / 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 at the time of admission.
10. While filling the information for online registration, the candidate with SSC / 10th Passed Examination qualification shall provide total marks obtained out of maximum marks, where as the candidate on SSC/10th Examination appeared basis for year 2023 shall upload his/her Admit Card of the SSC/10th Examination.
11. The Age criteria for appearing in Entrance Examination 2023 is as follows: For Candidates of General / OBC Category 15-19 years and for Candidates of SC/ST Category 15-22 years as on 31/07/2023.
12. Requirement of Aadhaar- Clarification 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. 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 center (list available at www.uidai.gov.in) to get enrolled for Aadhaar.
13. Uploading of mandatory documents (images should be in JPG format and size should be between 10kb to 100kb)
 - a. 10th/ SSC Marks Memo (for Passed candidates) or 10th/ 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. The Scanned image of the Photograph of the candidate
 - f. The Scanned image of Signature of the candidate
14. The fee can be remitted in the following ways through online gateway:
A. Credit Card B. Debit Card C. Net Banking D. UPI
15. Candidates must preserve their Admit Card and all documents till the admission in Institution is over.
16. Four Simple steps to Apply Online:
 - a. Fill the Online Application Form
 - b. Upload photo and signature
 - c. Make Payment of Fee by prescribed modes.
 - d. Print Registration Confirmation after Successful remittance of fee.
17. 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.
18. The online application process will start from 15 May 2023 onwards. The last date for application is 26 July 2023. The details are:

EXAMINATION SCHEDULE

Date of Examination, Entrance Examination 2023	30/07/2023 (Sunday)
Submission of on-line application forms & payment of fee	15.05.2023 To 26.07.2023 upto 24:00 Hrs. (IST)
Downloading of Registration Confirmation	On successful completion of online application (registration) and completion of payment fee for Entrance Examination 2023
Downloading of Provisional Admit Cards	Provisional admit card with allotted Roll No. & Examination time will be sent on candidate's registered email ID between 27 th July to 29 th July 2023
Declaration of Result	On or Before 31/07/2023

For exact date, candidate may remain in touch with website.

ENTRANCE EXAMINATION FEE DETAILS

FOR GENERAL / OBC	Rs.500/- (INR) per Course + Bank Charges As Applicable
FOR SC / ST	Rs.300/- (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 mention above) has to be paid.	

SCHEDULE OF EXAMINATION & EXAMINATION FEES DETAILS:

For any help, please forward your queries to admission.tcbhiwadi@gmail.com / trg.engq@msmetcbhiwadi.org or call on PhoneNo. 0149-3242 101 /140 Mobile. 9373161259, 9373161260, 8595459104 & 8595447671 or visit <http://msmetcbhiwadi.org>.

QUESTION PAPER FOR ENTRANCE EXAMINATION (SYLLABUS & PATTERN)

- Question Paper contains Subjects: English, Mathematics, General Science (Physics & Chemistry), General Knowledge and Mental Aptitude
- The total question paper will have 60 questions objective only.
- Each question will have 4 choices to be chosen
- Each question carries 1 mark for the right choice, no negative marks for wrong answers.
- Duration of the Entrance Examination would be 60 Minutes

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

I) MATHEMATICS:

Arithmetic

Percentage, Profit, Loss, Simple & Compound Interest, Discount, Commission, Highest, Common Factor & Least Common Factor, Multiple of Polynomials, Binary Numbers, Probability, Arithmetic Progression & Geometric Progression.

Mensuration

Areas & Circumference of Different Geometries, Surface Area & Volume of Diff Geometries Such As Cylinders, Cones, Cubes, Etc.

Ratio and Proportion Variation

Ratio of Real Numbers, Order In Ratios, Word Problems of Ratios, Properties of Ratios, Theorem on Equal Ratios, Proportion, K-Method Direct Variation & Inverse Variation, Formulae & The Concept of Variation

Sim. Linear Equations	Graphical method & algebraic methods
Quadratic Equations	Quadratic Equations, Solutions of a Quadratic Equations, Methods of solving Quadratic Equations, Factorization, Perfect Square Method, Formula Method
Algebraic Expressions	Polynomials, Degree of Polynomials, Sum, Product & Division of Polynomials. Coefficient form of Polynomials, Synthetic Division etc.
Trigonometry :	Trigonometrically Ratios, Measure of Angle, Relationships, Identities & Their Applications, etc.
Statistics	Numeral Data & Its Presentation, Cumulative Frequency Table, Representation of Statistical Data By Different Methods
Geometry	Similarity, Theorem of Pythagoras, Circle & Geometrical Constructions, Coordinate Geometry.
II) SCIENCE & TECHNOLOGY:	
Electricity, Electromagnetism	Electric Current, Potential Difference, Current In Conductors & Electrolytes, : Electric Current, Potential Difference, Current In Conductors & Electrolytes Potential Difference, Heating Effect of Electric Current, Joules Law, Magnetic Field Due To Electric Current Different Cells.
Sources of Energy	Energy From Sun, Energy From Flowing Water, Nuclear Energy & Its Uses.
Moving Objects & of Motion	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
Work, Power & Energy	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
Sound	Nature Sound, Production, Propagation, Characteristics of Sound, Speed of Sound.
Light	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
Matter	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, Valence & Chemical Symbols of Elements & Chemical Formulae of Compounds
Atom	Atomic Structure, Different Theories, Mass of Atom, Atomic No. & Valence, Isotopes, Periodic Classification of Elements, Etc
Metals, Non Metals	Metal, Non Metals & Their Physical & Chemical Properties, Occurrence of Metals & Corrosion of Metals.
Acid Base Theory	Acids, Bases, Indicators, Strength, Reactivity & Ionization of Acids & Bases, Salts
Carbon & Carbon Compounds	Carbon & Its Properties, Carbon Compounds, Their Properties & Applications, Hydrocarbons, Saturated Unsaturated Carbon, Functional Groups & Nomenclature of Organic Compounds
Chemical Reactions & Their Types	Concept of Chemical Reactions, Types of Chemical Reactions, Oxidation, Reduction & Neutralization.

III) English

Grammar, Vocabulary, Spell check

IV) GENERAL KNOWLEDGE

National and International Current Affairs and General Knowledge.

V) 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 center & ban from future process / examinations.
2. Entry in the examination center is allowed one hour before the start of the exam. Last entry in the examination center is 30 minutes before the start of the exam. It would be appropriate to visit the center a day before the examination to confirm the location, distance etc. of center to avoid delay. It is the responsibility of the candidate to reach the center on time. No candidate whatsoever is the reason shall be allowed in the examination center 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 center 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 center, mode of transportation available & weather conditions etc. to avoid any problem in reaching the center. Parent shall sign at appropriate place as an undertaking that they will ensure compliance of offline entrance examination rules.
4. Material to be brought on the day of examination Valid
 - 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 center 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. Candidate will be frisked before commencement of the examination.
7. No candidate shall be allowed to use toilets in the last 30 minutes of examination.
8. No candidate shall be allowed to leave the examination hall before concluding the test.
9. No candidate shall be allowed to leave the examination hall without permission of the invigilator.
10. The admit card is issued provisionally to the candidate subject to his / her satisfying the eligibility conditions.
11. 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 candidates admit card by the following documents.
 - A. Photograph & Signature of the candidate
 - B. Photo ID - Aadhar Card / Passport / PAN Card / School or College I Card
2. **Examination Process**
 - a. The candidate will move on his allotted seat provided to him.
 - b. Instructions for attempting the Entrance Examination will be given by Invigilator before start of Examination.
 - c. Examination shall be held in OMR mode.

- d. The candidates will be provided a Question Paper Booklet and an OMR answer sheet for answering the questions.
- e. The candidate must write his/her Roll Number, as allotted to him/her and printed in the Admit Card, on OMR Answer Sheet in boxes and darken appropriate circles with Blue/Black Ball Point Pen. Similarly, write Question Paper Booklet Number on OMR Answer Sheet. The candidate should not write his/her name, Registration Number and also not to make noting/scribbling on the Answer Sheet and Question Paper Booklet except in the space provided for rough work. In case any candidate fills in the information wrongly, the Institute will not take any responsibility of rectifying the mistake. The Question Paper Booklet Code as darkened by the candidate will be final and the result will be processed on the basis of the circle darkened by him/her.
- f. Candidates are required to correctly fill in the Question Paper Booklet Code (as mentioned on the top of the Question Paper Booklet) in the OMR Answer Sheet, as the same will be considered final for result computation. Candidates not filling the Question Paper Booklet Code will not be awarded any marks.
- g. Each candidate will be given Question Paper Booklet printed in English.
- h. Candidates should not open the seal of the Question Paper Booklet before the time specified for the commencement of the examination.
- i. The OMR Answer Sheet contains the serial number of questions as given in the Question Paper Booklet. Against each question number, there are four circles marked as A, B, C, and D which correspond to the four answer options of which one is to be darkened on the OMR Answer Sheet only. No marking should be done on the Question Paper Booklet.
- j. Candidates are required to sign in the OMR Answer Sheets and Attendance Sheet in the same manner as they have signed in their application form and Admit Card.
- k. The Question Paper Booklet will consist of 60 Multiple Choice Questions (MCQ's). Each question will be of one mark and for every question, four options designated as A, B, C and D are given in the Question Paper Booklet. The candidate is required to select one amongst the options corresponding to the question as his/her right answer and darken the circle i.e. A or B or C or D.
- l. Multiple darkened circles for a question will be treated as wrong answer. For question/s not answered i.e. blanks, no marks will be given or deducted.
- m. Candidate has no option to change/alter/erase the answer once he/she has answered the question by darkening the circle. Therefore, before darkening the circle corresponding to the question number he/she is advised to ensure the correctness /authenticity of the answer. Use of white/correction fluid, eraser, blade, etc. is not allowed on the OMR Answer Sheet.
- n. The candidate will be required to surrender the OMR Answer & Question booklet at the conclusion of each session of examination against acknowledgement by the Invigilator on the admit card.
- o. Each question carries 1 mark for the right choice, no negative marks for wrong answers.
- p. The candidate will be allowed to leave the Examination hall only with the due permission of the invigilator on confirmation of receipt of complete data.

RESULT ANNOUNCEMENT

- a. The merit list of shortlisted candidates will be displayed on MSME TECHNOLOGY CENTRE BHIWADI website at <http://msmetcbhiwadi.org/> and a copy of the same will be Displayed on MSME TECHNOLOGY CENTRE Noticeboard.

- b. Shortlisted candidates as per merit list may also be provided the information on individual Registered mobile and email id regarding their selection and counselling schedule.

COUNSELLING FOR ADMISSION

- a. The successful candidates will be offered for admission to the course as per the merit list
- b. If two or more than two candidates are having same score in the Online Entrance Examination, preference for selection will be given with the following criteria sequentially as below:
- Highest marks in SSC/10th Examination
 - Maximum marks in Mathematics
 - Maximum marks in Science
 - Maximum marks in English
- c. Provisional Admission to a candidate will be confirmed based on the verification & submission of the original documents as mentioned below
- Admit Card
 - 10th / SSC Mark sheet
 - Transfer / Leaving Certificate
 - Passport Size Photograph
 - Aadhar Card
 - Caste Certificate if applicable
 - Signature of the candidate
 - Any other document, if necessary
- d. A candidate has to confirm his/her admission to the course by making the necessary payment for the course fees as given in the prospectus.
- e. Mode of payment for the course fees will be online payment only and the payment for the course fee has to be completed within the stipulated time as allotted.
- f. If any candidate as per the merit list does not report for counseling 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 below
- g. 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 MSME-TC Bhiwadi 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

- Original copy of SSC Mark Sheet.
- Original copy of Transfer / Leaving Certificate of last Education.
- Original copy of Caste Certificate (Wherever applicable) issued by competent authority. Non creamy layer certificate in case of OBC candidates.
- Medical Fitness Certificate from Civil Surgeon
- Certificate from Doctor for student Injected with TT Injection
- Passport size 8 photographs. Deposited documents shall be returned to the candidates only on completion of the course only.

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

OVERVIEW OF COURSES

NAME OF THE COURSE	ADVANCE DIPLOMA IN TOOL& DIE MAKING	DIPLOMA IN MECHATRONICS
Course Duration	4 years	3 years
Intake Per Year	60	60
Total Tuition Fee	₹ 1,52,000	₹ 1,14,000
Tuition Fee (Per Annum)	₹ 38,000	₹ 38,000
Security Deposit (One Time)	₹ 5,000	₹ 5,000
Insurance Premium (PerAnnum)	₹ 200	₹ 200
Library Fee (Per Annum)	₹ 500	₹ 500
Internet Fee (Per Annum)	₹ 200	₹ 200
Hostel Charges (PerSemester)	₹ 9,000	₹ 9,000
Mess Charges (Per Semester)	₹ 13,200	₹ 13,200
Entry Qualification	Passed 10 class with Science & Mathematics with minimum 50% aggregate marks of all subjects (40% for the candidates belonging to SC/ST category)	
Age	15 to 19 years as on 31/07/2023 (3 Years relaxation for SC/STCandidates)	
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.	
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.	
Note: No fee shall be refunded on cancellation of admission or discontinuation		

COURSE DETAILS

Name of the Course	Advance Diploma in Tool & Die Making (ADTDM)
Objectives	To Design & Manufacture intricate tools like Press Tools, Plastic Molds, Jigs, Fixtures & Gauges etc. with exposure modern Die Design & Die Manufacturing technology independently
Duration	04 Years
Intake	60
Course Fees	Rs.1,52,000/-
Eligibility	10th Std. with 50% marks in aggregate (40% for reserved category candidates)
Age	15 – 19 years as on 31/07/ 2023 (3 years relaxation for SC/ST candidates)



MSME TECHNOLOGY CENTRE BHIWADI
ADVANCE DIPLOMA IN TOOL & DIE MAKING CURRICULUM- 1st Semester

Sr. No.	Subject Code	Subject Name	Teaching Scheme/ No. of Hours(per week)			Examination Scheme								
			Theory (per week)	Practice (per week)	TOTAL (per week)	Theory				Practice				Total Marks
						Sessional		Semester Exam		Sessional		Semester Exam		
						Max. Marks	Min. to pass	Max. Marks	Min. to pass	Max. Marks	Min. to pass	Max. Marks	Min. to pass	
1	A1-01	COMMUNICATION SKILLS	2	1	3	40	20	60	30	NA	NA	NA	NA	100
2	A1-02	APPLIED MATHEMATICS-I	2	1	3	40	20	60	30	NA	NA	NA	NA	100
3	A1-03	APPLIED SCIENCE-I	2	2	4	40	20	60	30	50	25	NA	NA	150
4	A1-04	ENGINEERING DRAWING	2	6	8	NA	NA	NA	NA	40	20	60	30	100
5	A1-05	WORKSHOP PRACTICE-I	0	12	12	NA	NA	NA	NA	160	80	240	120	400
6	A1-06	WORKSHOP TECHNOLOGY-I	4	0	4	40	20	60	30	NA	NA	NA	NA	100
7	A1-07	ELECTRICAL & ELECTRONICS	2	0	2	40	20	60	30	NA	NA	NA	NA	100
8	A1-08	COMPUTER APPLICATIONS	1	3	4	NA	NA	NA	NA	40	20	60	30	100
Total Teaching Hours			15	25	40	Total Marks								1150



MSME TECHNOLOGY CENTRE BHIWADI
ADVANCE DIPLOMA IN TOOL & DIE MAKING CURRICULUM- IInd Semester

Sr. No.	Subject Code	Subject Name	Teaching Scheme/ No. of Hours(per week)			Examination Scheme								
			Theory (per week)	Practice (per week)	TOTAL (per week)	Theory				Practice				Total Marks
						Sessional		Semester Exam		Sessional		Semester Exam		
						Max. Marks	Min. to pass	Max. Marks	Min. to pass	Max. Marks	Min. to pass	Max. Marks	Min. to pass	
1	A2-01	ELECTRICAL & ELECTRONICS(WORKSHOP)	0	3	3	NA	NA	NA	NA	40	20	60	30	100
2	A2-02	APPLIED MATHEMATICS-II	2	1	3	40	20	60	30	NA	NA	NA	NA	100
3	A2-03	APPLIED CHEMISTRY	2	2	4	40	20	60	30	50	25	NA	NA	150
4	A2-04	MACHINE DRAWING	2	6	8	NA	NA	NA	NA	40	20	60	30	100
5	A2-05	APPLIED MECHANICS	2	2	4	40	20	60	30	NA	NA	NA	NA	100
6	A2-06	WORKSHOP PRACTICE-II	0	14	14	NA	NA	NA	NA	160	80	240	120	400
7	A2-07	WORKSHOP TECHNOLOGY & METROLOGY	4	0	4	40	20	60	30	NA	NA	NA	NA	100
Total Teaching Hours			12	28	40	Total Marks								1050



MSME TECHNOLOGY CENTRE BHIWADI
ADVANCE DIPLOMA IN TOOL & DIE MAKING CURRICULUM- IIIrd Semester

Sr. No.	Subject Code	Subject Name	Teaching Scheme/ No. of Hours(per week)			Examination Scheme									
			Theory (per week)	Practice (per week)	TOTAL (per week)	Theory				Practice				Total Marks	
						Sessional		Semester Exam		Sessional		Semester Exam			
						Max. Marks	Min. to pass	Max. Marks	Min. to pass	Max. Marks	Min. to pass	Max. Marks	Min. to pass		
1	A3-01	THEORY OF MACHINE & MECHANISMS	2	1	3	40	20	60	30	NA	NA	NA	NA	100	
2	A3-02	STRENGTH OF MATERIALS	3	1	4	40	20	60	30	NA	NA	NA	NA	100	
3	A3-03	ADVANCE MANUFACTURINGPROCESSES	2	0	2	40	20	60	30	NA	NA	NA	NA	100	
4	A3-04	TOOL & DIE MAKING PRACTICE	0	20	20	NA	NA	NA	NA	160	80	240	120	400	
5	A3-05	TOOL & DIE MAKING TECHNOLOGY	4	0	4	40	20	60	30	NA	NA	NA	NA	100	
6	A3-06	ENGINEERING MATERIAL AND PROCESS	2	0	2	40	20	60	30	NA	NA	NA	NA	100	
7	A3-07	COMPUTER AIDED DRAFTING (AUTOCAD)	2	3	5	NA	NA	NA	NA	40	20	60	30	100	
Total Teaching Hours			15	25	40	Total Marks									1000



MSME TECHNOLOGY CENTRE BHIWADI
ADVANCE DIPLOMA IN TOOL & DIE MAKING CURRICULUM- IVth Semester

Sr. No.	Subject Code	Subject Name	Teaching Scheme/ No. of Hours(per week)			Examination Scheme									
			Theory (per week)	Practice (per week)	TOTAL (per week)	Theory				Practice				Total Marks	
						Sessional		Semester Exam		Sessional		Semester Exam			
						Max. Marks	Min. to pass	Max. Marks	Min. to pass	Max. Marks	Min. to pass	Max. Marks	Min. to pass		
1	A4-01	CNC TECHNOLOGY & PROGRAMMING	2	4	6	40	20	60	30	40	20	60	30	200	
2	A4-02	TOOL & DIE MAKING PRACTICE - II	0	16	16	NA	NA	NA	NA	160	80	240	120	400	
3	A4-03	DESIGN OF JIG, FIXTURES & GAUGES - I	1	3	4	40	20	60	30	40	20	60	30	200	
4	A4-04	DEIGN OF PRESS TOOLS - I	1	3	4	40	20	60	30	60	30	90	45	250	
5	A4-05	DEIGN OF MOULDS - I	1	3	4	40	20	60	30	60	30	90	45	250	
6	A4-06	C PROGRAMMING	1	3	4	NA	NA	NA	NA	40	20	60	30	100	
7	A4-07	DESIGN OF CUTTING TOOLS	2	0	2	40	20	60	30	NA	NA	NA	NA	100	
Total Teaching Hours			8	32	40	Total Marks									1500



MSME TECHNOLOGY CENTRE BHIWADI
ADVANCE DIPLOMA IN TOOL & DIE MAKING CURRICULUM- Vth Semester

Sr. No.	Subject Code	Subject Name	Teaching Scheme/ No. of Hours(per week)			Examination Scheme								
			Theory (per week)	Practice (per week)	TOTAL (per week)	Theory				Practice				Total Marks
						Sessional		Semester Exam		Sessional		Semester Exam		
						Max. Marks	Min. to pass	Max. Marks	Min. to pass	Max. Marks	Min. to pass	Max. Marks	Min. to pass	
1	A5-01	CNC MACHINING	2	10	12	NA	NA	NA	NA	160	80	240	120	400
2	A5-02	TOOL & DIE MAKING PRACTICE - III	0	8	8	NA	NA	NA	NA	160	80	240	120	400
3	A5-03	DESIGN OF JIG & FIXTURES - II	1	3	4	40	20	60	30	40	20	60	30	200
4	A5-04	DEIGN OF PRESS TOOLS - II	1	3	4	40	20	60	30	60	30	90	45	250
5	A5-05	DEIGN OF MOULDS - II	1	3	4	40	20	60	30	60	30	90	45	250
6	A5-06	MACHINE DESIGN WITH ADVANCE CAD	3	3	6	NA	NA	NA	NA	40	20	60	30	100
7	A5-07	INDUSTRIAL ENGG. & QUALITY SYSTEMS	2	0	2	40	20	60	30	NA	NA	NA	NA	100
Total Teaching Hours			10	30	40	Total Marks								1700



MSME TECHNOLOGY CENTRE BHIWADI
ADVANCE DIPLOMA IN TOOL & DIE MAKING CURRICULUM- VIth Semester

Sr. No.	Subject Code	Subject Name	Teaching Scheme/ No. of Hours(per week)			Examination Scheme									
			Theory (per week)	Practice (per week)	TOTAL (per week)	Theory				Practice				Total Marks	
						Sessional		Semester Exam		Sessional		Semester Exam			
						Max. Marks	Min. to pass	Max. Marks	Min. to pass	Max. Marks	Min. to pass	Max. Marks	Min. to pass		
1	A6-01	ENTERPRENEURSHIP DEVELOPMENT	2	0	2	NA	NA	NA	NA	50	25	NA	NA	50	
2	A6-02	CNC MACHINING & AUTOMATION	2	8	10	NA	NA	NA	NA	160	80	240	120	400	
3	A6-03	COMPUTER ADIED MANUFACTURING	1	3	4	NA	NA	NA	NA	40	20	60	30	100	
4	A6-04	TOOL & DIE MAKING	0	10	10	NA	NA	NA	NA	160	80	240	120	400	
5	A6-05	DESIGN OF MOULDS - III	1	3	4	40	20	60	30	60	30	90	45	250	
6	A6-06	DESIGN OF DIE CASTING DIES	1	3	4	40	20	60	30	40	20	60	30	200	
7	A6-07	DESIGN OF FORGING DIES	1	3	4	40	20	60	30	40	20	60	30	200	
8	A6-08	PRODUCATION PLANNING, ESTIMATING & COSTING	2	0	2	40	20	60	30	NA	NA	NA	NA	100	
Total Teaching Hours			10	30	40	Total Marks									1700



MSME TECHNOLOGY CENTRE BHIWADI
ADVANCE DIPLOMA IN TOOL & DIE MAKING CURRICULUM- VIIth Semester

Sr. No.	Subject Code	Subject Name	Teaching Scheme/ No. of Hours(per week)		Examination Scheme								Total Marks
			Theory (per week)	Practice (per week)	Theory				Practice				
					Sessional		Semester Exam		Sessional		Semester Exam		
					Max. Marks	Min. to pass	Max. Marks	Min. to pass	Max. Marks	Min. to pass	Max. Marks	Min. to pass	
1	A7-01	PROJECT- LIVE PRODUCTION JOBS	NA	48	NA	NA	NA	NA	325	163	275	137	600
Total Teaching Hours			NA	48	Total Marks								600
			48										



MSME TECHNOLOGY CENTRE BHIWADI
ADVANCE DIPLOMA IN TOOL & DIE MAKING CURRICULUM- VIIIth Semester

Sr. No.	Subject Code	Subject Name	Teaching Scheme/ No. of Hours(per week)		Examination Scheme								Total Marks
			Theory (per week)	Practice (per week)	Theory				Practice				
					Sessional		Semester Exam		Sessional		Semester Exam		
					Max. Marks	Min. to pass	Max. Marks	Min. to pass	Max. Marks	Min. to pass	Max. Marks	Min. to pass	
1	A8-01	PROJECT- LIVE PRODUCTION JOBS	NA	48	NA	NA	NA	NA	325	163	275	137	600
Total Teaching Hours			NA	48	Total Marks								600
			48										

COURSE DETAILS

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.1,14,000/-
Eligibility	10th Std. with 50% marks in aggregate (40% for reserved category candidates)
Age	15 – 19 years as on 31/07/ 2023 (3 years relaxation for SC/ST candidates)



MSME TECHNOLOGY CENTRE BHIWADI
DIPLOMA IN MECHATRONICS- IST Semester

Sr. No.	Subject Code	Subject Name	Teaching Scheme/ No. of Hours(per week)			Examination Scheme									
			Theory (per week)	Practice (per week)	TOTAL (per week)	Theory				Practice				Total Marks	
						Sessional		Semester Exam		Sessional		Semester Exam			
						Max. Marks	Min. to pass	Max. Marks	Min. to pass	Max. Marks	Min. to pass	Max. Marks	Min. to pass		
1	M1-01	COMMUNICATION SKILLS	2	2	4	40	20	60	30	NA	NA	NA	NA	100	
2	M1-02	ENGINEERING MATHEMATICS-I	2	2	4	40	20	60	30	NA	NA	NA	NA	100	
3	M1-03	APPLIED PHYSICS	2	2	4	40	20	60	30	NA	NA	NA	NA	100	
4	M1-04	ENGINEERING GRAPHICS	2	6	8	NA	NA	NA	NA	40	20	60	30	100	
5	M1-05	COMPUTER FUNDAMENTALS	2	4	6	50	25	NA	NA	40	20	60	30	150	
6	M1-06	WORKSHOP PRACTICE-I	4	10	14	40	20	60	30	160	80	240	120	500	
Total Teaching Hours			14	26	40	Total Marks									1050



MSME TECHNOLOGY CENTRE BHIWADI
DIPLOMA IN MECHATRONICS- 2ND Semester

Sr. No.	Subject Code	Subject Name	Teaching Scheme/ No. of Hours(per week)			Examination Scheme								
			Theory (per week)	Practice (per week)	TOTAL (per week)	Theory				Practice				Total Marks
						Sessional		Semester Exam		Sessional		Semester Exam		
						Max. Marks	Min. to pass	Max. Marks	Min. to pass	Max. Marks	Min. to pass	Max. Marks	Min. to pass	
1	M2-01	ENGINEERING MATHEMATICS – II	2	2	4	40	20	60	30	NA	NA	NA	NA	100
2	M2-02	MACHINE DRAWING AND COMPUTER AIDED DRAFTING	4	4	8	50	25	NA	NA	40	20	60	30	150
3	M2-03	ENGINEERING MECHANICS	2	2	4	40	20	60	30	NA	NA	NA	NA	100
4	M2-04	BASICS OF ELECTRICAL & ELECTRONICS ENGINEERING	4	0	4	40	20	60	30	NA	NA	NA	NA	100
5	M2-05	ELECTRICAL & ELECTRONICS (WORKSHOP)	0	8	8	NA	NA	NA	NA	40	20	60	30	100
6	M2-06	BASICS OF MECHANICAL ENGINEERING SYSTEMS & AUTOMATION	2	6	8	40	20	60	30	40	20	60	30	200
7	M2-07	APPLIED CHEMISTRY	2	2	4	40	20	60	30	NA	NA	NA	NA	100
Total Teaching Hours			16	24	40	Total Marks								850



MSME TECHNOLOGY CENTRE BHIWADI
DIPLOMA IN MECHATRONICS- 3RD Semester

Sr. No.	Subject Code	Subject Name	Teaching Scheme/ No. of Hours(per week)			Examination Scheme								
			Theory (per week)	Practice (per week)	TOTAL (per week)	Theory				Practice				Total Marks
						Sessional		Semester Exam		Sessional		Semester Exam		
						Max. Marks	Min. to pass	Max. Marks	Min. to pass	Max. Marks	Min. to pass	Max. Marks	Min. to pass	
1	M3-01	STRENGTH OF MATERIALS	2	2	4	40	20	60	30	NA	NA	NA	NA	100
2	M3-02	CONTROL SYSTEM	2	4	6	40	20	60	30	40	20	60	30	200
3	M3-03	DIGITAL ELECTRONICS	2	4	6	40	20	60	30	40	20	60	30	200
4	M3-04	ELECTRICAL CIRCUITS AND PANELLING	2	4	6	40	20	60	30	40	20	60	30	200
5	M3-05	INTRODUCTION TO ELECTRO-MECHANIC SENSORS & ACTUATORS	2	4	6	40	20	60	30	40	20	60	30	200
6	M3-06	THERMODYNAMICS & HEAT TRANSFER	2	2	4	40	20	60	30	NA	NA	NA	NA	100
7	M3-07	INDUSTRIAL ENGINEERING	2	0	2	40	20	60	30	NA	NA	NA	NA	100
8	M3-08	MACHINE DESIGN WITH ADVANCE CAD	2	4	6	NA	NA	NA	NA	50	25	100	50	150
Total Teaching Hours			16	24	40	Total Marks								1250



MSME TECHNOLOGY CENTRE BHIWADI
DIPLOMA IN MECHATRONICS- 4TH Semester

Sr. No.	Subject Code	Subject Name	Teaching Scheme/ No. of Hours(per week)			Examination Scheme								
			Theory (per week)	Practice (per week)	TOTAL (per week)	Theory				Practice				Total Marks
						Sessional		Semester Exam		Sessional		Semester Exam		
						Max. Marks	Min. to pass	Max. Marks	Min. to pass	Max. Marks	Min. to pass	Max. Marks	Min. to pass	
1	M4-01	MANUFACURING PROCESS & MECHATRONICS FUNDAMENTALS	2	4	6	40	20	60	30	50	25	NA	NA	150
2	M4-02	POWER ELECTRONICS	2	4	6	40	20	60	30	40	20	60	30	200
3	M4-03	MICROCONTROLLER PROGRAMMING	2	6	8	40	20	60	30	40	20	60	30	200
4	M4-04	METROLOGY & QUALITY CONTROL	2	2	4	40	20	60	30	50	25	0	0	150
5	M4-05	C-PROGRAMMING	2	6	8	40	20	60	30	40	20	60	30	200
6	M4-06	PROFESSIONAL PRACTICES & MINI PROJECT	0	8	8	NA	NA	NA	NA	50	25	100	50	150
Total Teaching Hours			10	30	40	Total Marks								1050



MSME TECHNOLOGY CENTRE BHIWADI
DIPLOMA IN MECHATRONICS- 5TH Semester

Sr. No.	Subject Code	Subject Name	Teaching Scheme/ No. of Hours(per week)			Examination Scheme									
			Theory (per week)	Practice (per week)	TOTAL (per week)	Theory				Practice				Total Marks	
						Sessional		Semester Exam		Sessional		Semester Exam			
						Max. Marks	Min. to pass	Max. Marks	Min. to pass	Max. Marks	Min. to pass	Max. Marks	Min. to pass		
1	M5-01	CNC PROGRAMMING & MACHINING	2	6	8	40	20	60	30	40	20	60	30	200	
2	M5-02	INDUSTRIAL HYDRAULICS & PNEUMATIC	2	6	8	40	20	60	30	40	20	60	30	200	
3	M5-03	THEORY OF MACHINE	2	4	6	40	20	60	30	NA	NA	NA	NA	100	
4	M5-04	PLC PROGRAMMING	2	6	8	40	20	60	30	40	20	60	30	200	
5	M5-05	ADVANCE MANUFACTURING PRACTICES	2	0	2	40	20	60	30	NA	NA	NA	NA	100	
6	M5-06	ELECTRICAL DRIVES AND CONTROL	2	6	8	40	20	60	30	50	25	NA	NA	150	
Total Teaching Hours			12	28	40	Total Marks									950



MSME TECHNOLOGY CENTRE BHIWADI
DIPLOMA IN MECHATRONICS- 6TH Semester

Sr. No.	Subject Code	Subject Name	Teaching Scheme/ No. of Hours(per week)			Examination Scheme								
			Theory (per week)	Practice (per week)	TOTAL (per week)	Theory				Practice				Total Marks
						Sessional		Semester Exam		Sessional		Semester Exam		
						Max. Marks	Min. to pass	Max. Marks	Min. to pass	Max. Marks	Min. to pass	Max. Marks	Min. to pass	
1	M6-01	EMBEDDED SYSTEM DESIGN	2	6	8	40	20	60	30	40	20	60	30	200
2	M6-02	MECHATRONICS SYSTEM DESIGN	2	6	8	40	20	60	30	100	50	NA	NA	200
3	M6-03	ROBOTICS	2	4	6	40	20	60	30	100	50	NA	NA	200
4	M6-04	PROJECTS	0	12	12	NA	NA	NA	NA	100	50	200	100	300
		ANY ONE OF FOLLOWING (OPTIONAL SUBJECT):												
5	M6-05	PANEL ENGINEERING	2	4	6	40	20	60	30	50	25	NA	NA	150
6	M6-06	SCADA AND HMI	2	4	6	50	25	NA	NA	40	20	60	30	150
7	M6-07	ENTERPRENEURSHIP DEVELOPMENT	2	4	6	40	20	60	30	50	25	NA	NA	150
Total Teaching Hours			8	32	40	Total Marks								1050

Long term course admission schedule 2023-2024

Advance Diploma in Tool & Die Making (ADTDM)	07/08/2023 TO 30/06/2027
Diploma in Mechatronics (DIM)	07/08/2023 TO 30/06/2026

Institute reserves right to incorporate changes in course contents, course duration, IntakeCapacity, 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

SEMESTER PATTERN-FULL TIME

A very compressive system of evolution exit to monitor the progress of the trainee. The trainees are regularly evaluated through a series of assignments, test & practical exercises etc. The required counseling is given to those who have learning difficulties.

The guidelines of evaluation will be implemented prevailing at the time of admission and approved by competent authority.
MSME TC reversed the right to change & implement evaluation strategy time to time after obtaining approval from competent authority.

EVALUATION PATTERN																		
TYPES OF EVALUATION PATTERNS		EVALUATION PATTERN								PASSING			EVALUATION DURATION X INSTANCES					
		SESSIONAL (40% of Total Marks)								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)	
		Class Test	Work Book, Assignments & Behaviour (3 times at regular interval)	TERM WORK				SEMESTER EXAM (60% of Total Marks)										TOTAL MARKS
				Planning & Process Evaluation	Practical exercise / Product mfg	Presentation, Oral & Viva Voce	Report	THEORY	PRACTICAL									
THEORY SUBJECTS																		
GENERAL THEORY	T1	30	10	*	*	*	*	60	*	100	20	30	50	1h X 3x	3h X 1x	*	*	*
GENERAL THEORY (WITHOUT SEMESTER EXAM)	T1A	50	25	*	*	25	*	*	*	100	50	*	50	1h X 1x	*	*	*	*
WORKSHOP TECHNOLOGY	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	*	*	*
WORKSHOP TECHNOLOGY (WITHOUT SEMESTER EXAM)	T2A	50	25	*	*	25	*	*	*	100	50	*	50	1h X 1x	*	*	*	*
PRACTICE SUBJECTS																		
WITHOUT CLASS TEST & SEM. EXAM	P1	*	20	*	*	30	50	*	*	100	50	*	50	*	*	7wks X 3x	*	*
ENGG. METROLOGY	P2	*	*	10	30	*	*	*	60	100	20	30	50	*	*	7wks X 3x	*	1.5h X 1x
ENGG. METROLOGY (WITHOUT SEMESTER EXAM)	P2A	*	25	*	50	25	*	*	100	100	50	*	50	*	*	*	*	*
CNC PROGRAMMING, CA, AUTOCAD, MDT & OTHER CAD, CAM & CAE SOFTWARES (WITH SEMESTER EXAM)	P3	*	10	*	20	10	*	*	60	100	20	30	50	*	*	7wks X 3x	*	3h X 1x
CNC PROGRAMMING, CA, AUTOCAD, MDT & OTHER CAD, CAM & CAE SOFTWARES (WITHOUT SEMESTER EXAM)	P3A	*	25	*	50	25	*	*	100	100	50	*	50	*	*	*	*	*
ENGG. DRG PRACTICE	P4	*	*	10	30	*	*	*	60	100	20	30	50	*	*	7wks X 3x	*	4h X 1x
ENGG. DRG PRACTICE (WITHOUT SEMESTER EXAM)	P4A	*	25	*	50	25	*	*	100	100	50	*	50	*	*	*	*	*
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
TOOL DESIGN PRACTICE (WITHOUT SEMESTER EXAM)	P5A	*	25	*	50	25	*	*	100	100	50	*	50	*	*	*	*	*
WORK SHOP PRACTICE CNC MACHINING	P7	*	*	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	*
WORK SHOP PRACTICE & CNC MACHINING (WITHOUT SEMESTER EXAM)	P7A	*	25	*	50	25	*	*	100	100	50	*	50	*	*	*	*	*
TOOL & DIE MAKING (EXERCISES)	P8	*	*	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	*	*	*	100	100	30	*	50	*	*	20wks X 1x	*	*
AWARENESS / FUNDAMENTALS OF CONVENTIONAL MACHINING OPERATIONS, MEASUREMENTS, CNC MACHINING, ENGINEERING DRAWING, GD&T, MATERIALS, HYDRAULICS, PNEUMATICS & CAD/ CAM/ CAE SOFTWARE	P10A	*	*	*	*	*	*	*	100	100	*	*	50	*	*	*	*	*
	P10A	*	*	*	*	*	*	*	100	100	*	*	50	*	*	*	*	*
	P10A	*	*	*	*	*	*	*	100	100	*	*	50	*	*	*	*	*
	P10A	*	*	*	*	*	*	*	100	100	*	*	50	*	*	*	*	*
PROJECT	P11	*	25	*	300	75	200	*	*	600	300	*	300	*	*	20wks X 1x	*	*
	P12	*	*	50	25	25	*	*	100	100	50	*	50	*	*	20wks X 1x	*	*
	P12A	*	10	*	40	25	25	*	*	100	50	*	50	*	*	*	*	*

GENERAL INFORMATION

- Teaching Hours:** 8 hours per day (excluding lunch), five days per week.
- Attendance:** It is compulsory to attain 80% attendance for appearing semester and final: exams in all the training courses.
- Original certificates:** Original certificates of school Leaving certificate and mark sheet of 10th: Standard (Caste certificate for reserved Candidates) are to be deposited with MSME TECHNOLOGY CENTRE BHIWADI by the selected candidates at the time of admission, which will be returned after completion of the course only.
- Institute Security Deposit:** Institute Security Deposit is to be paid 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.

Uniform & Safety Shoes:	Trainees shall be required to wear uniform & shoes as prescribed by the Institute.
Hostel:	Separate hostel facilities may be provided for outstation boys & girls subject to the availability of the accommodation at the discretion of the Institute.
Mess:	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

Holidays: There are maximum of 17 holidays fixed by the Management during each Calendar year.

DISCIPLINE AND PERFORMANCE

The trainee is bound by the Rules and Regulations of the MSME TECHNOLOGY CENTRE BHIWADI 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, MSME-TC will take strict disciplinary action as stipulated in the Rules of the MSME TECHNOLOGY CENTRE BHIWADI. 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 basis as per norms.
2. MSME-TC Bhiwadi 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. Candidates belonging to reserved category should substantiate their claim by enclosing a Caste certificate issued by competent authority.
5. Medium of instruction is English only.
6. 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.
7. 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.
8. Registration Fee / Course Fee is non-refundable / non-transferrable in case any candidate cancels his admission for any reason.
9. Payment of Fee: Any fee for admission to the course / Training program should be deposited through online mode UPI, (Net Banking) or can be deposited in SBI Power Jyoti Account at any Branch of State Bank of India in the prescribed form available on the MSME- TC BHIWADI website. Registration fee (Non Refundable) to be paid at the time of registration to the course, balance fee (Security Deposit / Course Fee) to be paid on confirmation of admission to the course by MSME TC BHIWADI / Centre. **No fee will be accepted by Cash / Cheque.**
10. Course fee once paid will not be refunded under any circumstances.
11. Security Deposit will be refunded only on successful completion of the course.
12. Admission to the course once confirmed will not be cancelled/transferred under any circumstances & fees paid will be forfeited.

13. 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.
14. MSME-TC Bhiwadi 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.
15. Change of batch / Course or Re-admission to the courses may be permitted on payment of extra charges as applicable.
16. Security Deposit shall be forfeited, in case of loss of original receipt of the security deposit.
17. Registration Form is for application to the course only for admission purpose.
18. Movement of trainee within the campus shall be restricted to his / her allotted work place.
19. All the trainees will ensure discipline within the campus.
20. Regular attendance will have to be maintained by the trainee as per course schedule & 90% attendance is compulsory in all subjects individually.
21. All the internal assessments, assignments, evaluations will have to be attended / completed from time to time as per course schedule only.
22. Working hours are 8 hrs. /day (excluding lunch) in different shifts / timing as prescribed by the MSME TECHNOLOGY CENTRE BHIWADI / Centre.
23. The machines / Equipment / Furniture must be handled carefully. No act of damage to MSME TECHNOLOGY CENTRE BHIWADI / Centre properly shall be carried out by the trainee. Any loss or damage to property, fine as charged by management to be paid by the trainee. GENERAL RULES & REGULATIONS.
24. Trainee have to ensure the proper utilization of MSME TECHNOLOGY CENTRE BHIWADI / Centre property including Water & Electricity usage.
25. Laptop, Mobile phone, Pen Drive, CD or any other related items are not permitted inside MSME TECHNOLOGY CENTRE BHIWADI / Centre premises.
26. Trainee shall be required to wear uniform and shoes as prescribed by the MSMETCBHIWADI / Centre and possess I-Card compulsory during training.
27. Trainees will abide by the examination rules and regulations displayed on Notice Board of MSME TECHNOLOGY CENTRE BHIWADI / Centre and as amended from time to time.
28. Leave without information / permission will not be entertained.
29. Trainees going on leave or to home during vacation should inform the Course Co- coordinator compulsory.
30. MSME TECHNOLOGY CENTRE BHIWADI / Centre is not responsible for damage of individual / personal property within around the campus.
31. No trainee shall organize / conduct any meeting within the campus.
32. Smoking & Chewing Tobacco, possessing or drinking Alcoholic beverages in any form is strictly prohibited within MSME TECHNOLOGY CENTRE BHIWADI / Centre premises.
33. Ragging is strictly prohibited in the Premises.
34. Writing any comment / Remarks/ Name on Doors, Walls, Toilet, Notice Board is strictly prohibited.
35. Violations of above & any other Rules, Regulations, Disciplines and Conduct etc. are liable for disciplinary action.

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.

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.

% OF MARKS OBTAINED (Only passed Candidates) Semester-wise & Consolidated Mark List	Grade
> = 75%	DISTINCTION
> = 60% TO < 75%	FIRST
> = 50% TO < 60%	SECOND
> = 50%	PASS

PLACEMENT

Students trained at MSME TC Bhiwadi are readily accepted in Industry as employees due to the extensive Job Oriented skill education. More than 400 Trainees are already selected by various organizations or have become self-employed.



INFRASTRUCTURE AT GLANCE

Total Plot Area 40792 Sq. M.	Total built up area 19212 Sq. M.
Captive Power Generation	2000 KVA Installed Power Capacity
Central Air Conditioning	Clean and Dust Free Environment
Administration Block	Compressed Air Supply
Production Block	Dining Block
Training Block	Multipurpose Auditorium
Boys Hostel	Girls Hostel
Executive Hostel	Staff Accommodation
Multipurpose Open Air Auditorium	Underground Water Reservoirs

TRAINING

WIDE SPECTRUM OF LATEST ADVANCE MACHINE & SOFTWARE SET UP

CNC MILLING	Con-Milling-V-H-U	CNC-Simulation Modules
CNC- Mill+Turn-Table Top	CNC - Lathe	Tool & Cutter Grinder
CIM Lab	Work benches	Welding workshop
Drills	Con-Lathe	Maintenance lab
Pedestal Grinding	Surface Grinding	Cyl-grinding
CMM + metrology lab equip	Basic automation Lab	Advance Automation lab
AR/VR LAB	3D Printer plastic	3D scanner
Hydraulics & Pneumatics	ANSYS	AUTOCAD
E-CAD	UNIGRAPHICS- NX	SOLIDWORKS
HYPERMESH	CATIA	CRE-O
E-PLAN	MATLAB	SCADA

PRODUCTION

ULTRAMODERN STATE-OF-THE-ART TOOL ROOM FACILITIES

CNC Milling-5axis	Hydraulic press	Mechanical press
CNC Milling-3axis	Wire EDM	EDM
Die spotting press	Injection Moulding machine	CNC Lathe
Gun drilling machine	Radial drill machine	Surface Grinding
Cyl Grinding	CMM (Coordinate Measuring Machine)	Additive Manufacturing/3D printing/RPT
Heat Treatment Furnace	CNC Turn Mill	Material Testing Lab

Wide Spectrum Career Oriented Courses Offered On First-Come-First-Serve Basis

Career Oriented Courses for B.Tech/B.E./Diploma Pass outs.				
Sr. No.	Course	Eligibility	Duration	Tuition Fees
A4	Post Graduate Diploma in Tool Design and CAD/CAM (PGDTD & CC) NSQF Level-8	Degree in Mechanical / Production/Automobile or Equivalent	18 Months	90,000/
A5	Post Graduate Diploma in Mechatronics (PGDIM) NSQF Level-8	Degree in Mechanical / Electrical / E&TC/Instrumentation or Equivalent	18 Months	90,000/
Rs.5000/-Security Deposit & Rs.1800/-Registration fee is Applicable to Above Courses				

A6	Post Diploma in Tool Design & CAD/CAM (PDTD & CC) NSQF Level-6	Degree in Mechanical/Production/Automobile or Equivalent	12 Months	60,000/-
A7	Post Diploma in Tool & Die Manufacturing (PDTDM) NSQF Level-6		12 Months	60,000/-
A8	Post Diploma in Computer Aided Engineering (PDCAE) NSQF Level-6		12 Months	60,000/-
A9	Post Diploma in Mechatronics (PDIM) NSQF Level-8	Diploma in Mechanical/Electrical / E&TC/Instrumentation or Equivalent	12 Months	60,000/-

New Batch will be started on First Monday of January July & October of Calendar Year

Rs.5000/-Security Deposit & Rs.1200/-Registration fee is Applicable to Above Courses

Career Oriented Courses for 10th / ITI Passed

Sr. No.	Course	Duration	Tuition Fees	Course Commencement
A10	Certificate Course in CNC Turning and Milling (CCCTM) NSQF Level-4	12 Months	38,000/-	New Batch will be started on First Monday of February, May, August & November of Calendar Year
A11	Certificate Course in Tool & Die Making (CCTDM) NSQF Level-4	12 Months	38,000/-	

Rs.5000/-Security Deposit & Rs.1200/-Registration fee is Applicable to Above Courses

Note:-No course fee will be charged for SC/ST Candidates subjected to Production of Authentic caste certificate.

MEDIUM TERM COURSES

Career Oriented Courses for B.Tech / B.E. / Diploma Pass outs.

Sr. No.	Course	Eligibility	Duration	Tuition Fees
B1	Master Certificate Course in CAD/CAM (MCCC) NSQF Level-6	Degree/Diploma in Mechanical / Production /Automobile or Equivalent	06 Months	35,000/-
B2	Master Certificate Course in Tool Design (MCCTD) NSQF Level-6		06 Months	35,000/-
B3	Master Certificate Course in Computer Aided Tool Engineering (MCCATE) NSQF Level-6		06 Months	35,000/-
B4	Master Certificate Course in CNC Technology (MCCCT) NSQF Level-6		06 Month	35,000/-

New Batch will be started on First Monday of every month of Calendar Year

Rs.3000/-Security Deposit & Rs.600/- Registration fee is Applicable to Above Courses

NSQF Approved courses for B.Tech/BE/Diploma & SSC Pass outs

Sr. No.	Course Name	Eligibility	Duration	Course fees
B5	Advance Diploma In Machine Maintenance and Automation NSQF Level- 6	B.Tech/BE/Diploma(Mech./Elec./E &TC/ Inst.) or Equivalent	6 Months	Rs.35,000/-
B6	Certificate Course in CNC Turning NSQF Level- 4	SSC passed or its equivalent.	6 Months	Rs.20,000/-
B7	Certificate Course in CNC Milling NSQF Level- 4		6 Months	Rs.20,000/-
B8	Fire Safety NSQF Level-5		6 Months	Rs32,000/-

RS.3000/-Security deposit & 600/- registration fee is applicable to above courses

New Batch Will Be Started From First Monday of February May, August & November Every year

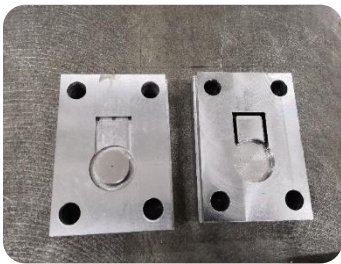
SHORT TERM COURSES
Career Oriented Courses for B.Tech/B.E./Diploma/ITI Students.

Area	Module	Sr. No.	Course	Duration	Course Fees
Mechanical / Production / Automobile Engineering or Equivalent	CAD	1	AUTOCAD (MECH.)	96Hrs.	4,500/-
		2	SOLIDWORKS	96Hrs.	5,500/-
		3	CATIA	96Hrs.	8,000/-
		4	CREO PARAMETRIC	96Hrs.	8,000/-
		5	UNIGRAPHICS	96Hrs.	8,000/-
	CAM	6	DELCAM	96Hrs.	5,500/-
		7	MASTERCAM	96Hrs.	5,500/-
	CAE	8	ANSYS	96Hrs.	9,000/-
		9	HYPERMESH	96Hrs.	9,000/-
	CNC Programming Machining	10	CNC Programming Lathe/Milling-Any One	96Hrs.	6,500/-
		11	CNC Machining Lathe/Milling	96Hrs.	8,000/-
Electrical / Electronics / Instrumentation / Computer / Mechanical or Equivalent B.Sc. / M.Sc. Electronics / Computer Science	AUTOMATION	12	ELECTRICAL CAD (E-CAD)	96Hrs.	4,500/-
		13	PLC PROGRAMMING (TIA)	96Hrs.	8,000/-
		14	SCADA	96Hrs.	8,000/-
		15	VLSI	96Hrs.	8,000/-
		16	BASIC HYDRAULICS	24Hrs.	3,500/-
		17	BASIC PNEUMATICS	24Hrs.	3,500/-
		18	ELECTRO HYDRAULICS	24Hrs.	4,500/-
		19	ELECTRO PNEUMATICS	24Hrs.	4,500/-
		20	SENSORS & APPLICATIONS	48Hrs.	5,500/-
		21	MATLAB	72Hrs.	10,000/-
		22	E-PLAN	96Hrs.	4,500/-
Computer Science / I.T./ Any Graduate	COMPUTER APPLICATION	23	C PROGRAMMING	48Hrs.	1,250/-
		24	C++ PROGRAMMING	48Hrs.	1,500/-
		25	PYTHON PROGRAMMING	48Hrs.	1,500/-

Note:-No course fee will be charged for SC/ST Candidates subjected to Production of Authentic caste certificate.

PRODUCTION SERVICES

MSME Technology Centre Bhiwadi offers manufacturing services for development and production of different tools and dies for sheet metal, plastic and forging components. It also provide machining of precision components on advanced machines on Job work basis



❖ Design & Manufacturing of Compression & Injection Moulds

❖ Design & Manufacturing of Press Tools



❖ Reverse Engineering & product design,

❖ Metrology : Quality inspection CMM Inspection

❖ Rapid Prototyping & Precision Job Work Machining



❖ Vacuum Heat Treatment Service



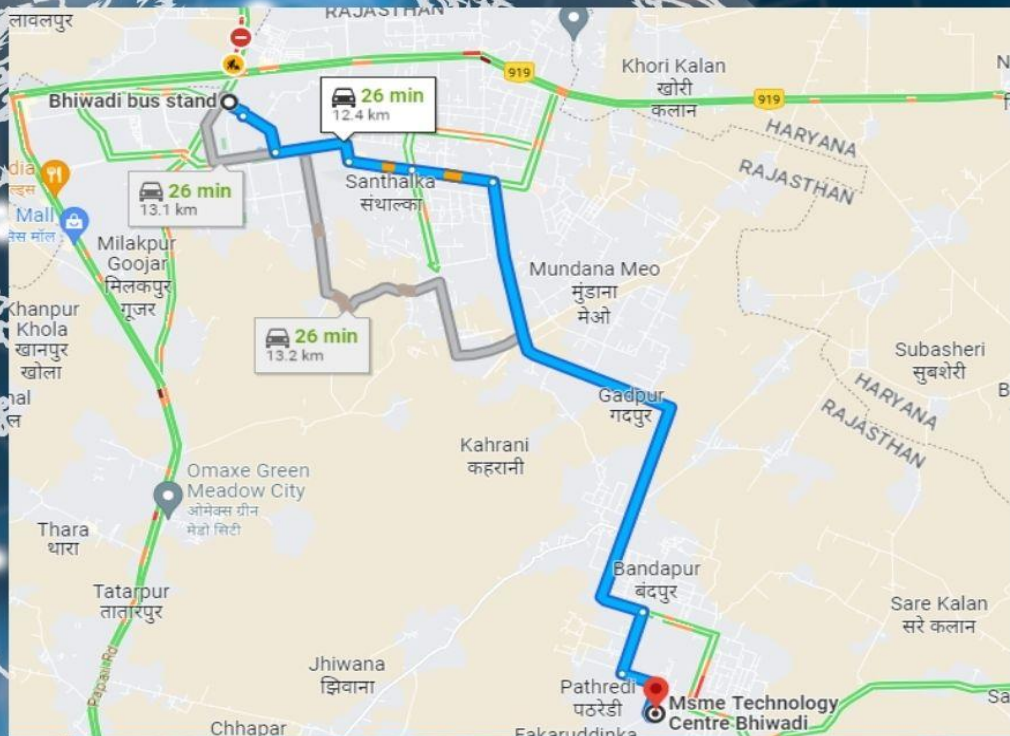
HOW TO REACH US

TRAVEL GUIDE

INDRA GANDHI INTERNATIONAL AIRPORT DELHI TO MSME TC BHIWADI- 75KM

REWARI JUNCTION, RAILWAY STATION TO MSME TC BHIWADI- 38 KM

BUS STAND TO MSME TC BHIWADI- 12.5 KM



MSME TECHNOLOGY CENTRE BHIWADI



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MSME

MICRO, SMALL & MEDIUM ENTERPRISES

सूक्ष्म, लघु एवं मध्यम उद्यम

OUR STRENGTH • हमारी शक्ति

Ministry of MSME, Govt. of India



SCAN TO REACH OUR WEBSITE
<https://www.msmetcbhiwadi.org>

MSME TECHNOLOGY CENTRE BHIWADI
A GOVERNMENT OF INDIA SOCIETY
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