

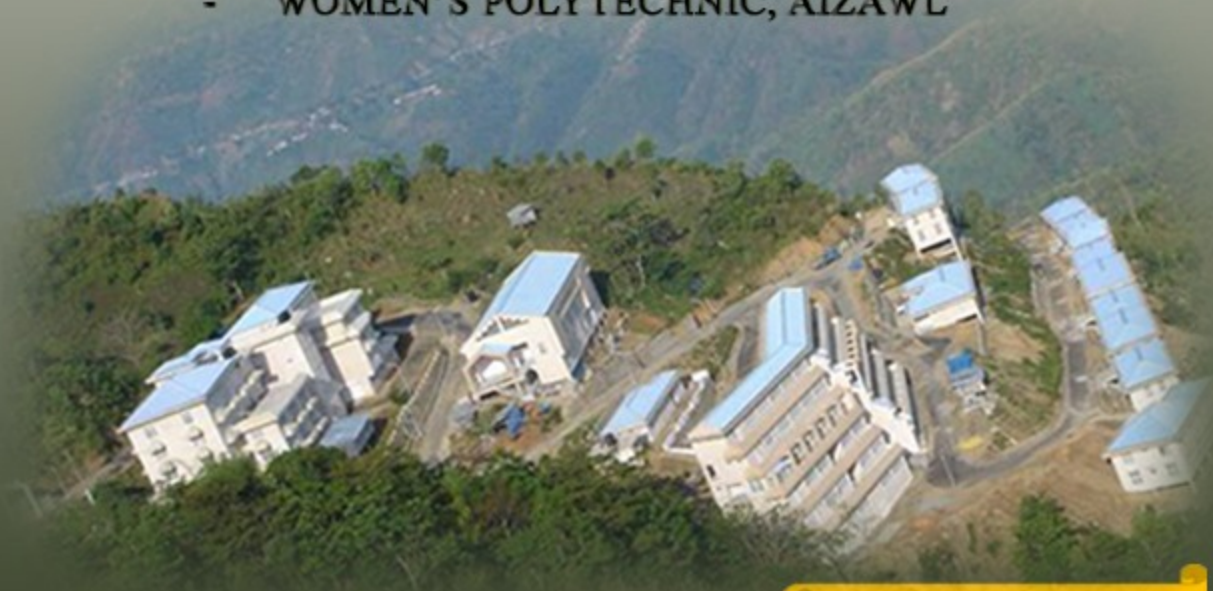


Information Brochure **for**

MIZORAM DIPLOMA ENTRANCE EXAMINATION 2023

**FOR ADMISSION TO DIPLOMA COURSES IN
ENGINEERING/TECHNOLOGY STREAMS AT**

- **MIZORAM POLYTECHNIC, LUNGLEI**
- **WOMEN'S POLYTECHNIC, AIZAWL**



*Important Dates &
Application Form Inside*

**Government of Mizoram
Directorate of Higher & Technical Education
(Mizoram State Council for Technical Education)
Technical Wing, Chaltlang**

Mizoram Polytechnic, Lunglei



Home of Diploma Engineering in Mizoram

- 1. Diploma in Civil Engineering**
- 2. Diploma in Mechanical Engineering**
- 3. Diploma in Electrical Engineering**
- 4. Diploma in Computer Science & Engineering**

**Visit our website <https://dhte.mizoram.gov.in>
for more details**

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I M P O R T A N T D A T E S (T e n t a t i v e)

1. Filling of Application Form(online & Offline)
: 19th April – 19th May, 2023
2. Last date of Submission of
Application form : 19th May, 2023 (Friday)
3. Date of Examination : 24th May, 2023 (Wednesday)
 - a. Engg/Tech/BCC : 10:00 am - 1:00 pm
 - b. Modern Office Management Practice : 1:30 pm - 4:30 pm
4. Issue of admit cards (Online /Offline) : 19th May, 2023(Fri)onwards
5. Publication of Results : Second week of June, 2023 (Tentative)
6. Date of Admission for Selected Candidates :
At Mizoram Polytechnic, Lunglei
 - a. Serial No. 1 - 60 : 21st June 2023 (Wed)
 - b. Serial No. 61 – 110 : 22nd June 2023 (Thu)
 - c. Serial No. 111 – 165 : 23rd June 2023 (Fri)

Note: *Seat allotment/ Admission will be made for serial No. 111 – 165 in order of serial number from 10:00AM onwards subject to availability of vacant seats. Any candidate found absent when call for seat allotment/Admission shall be declared as decline and chances shall be made for the next candidate and so on.*

At Women's Polytechnic, Aizawl

- a. ET (all candidates) : 27th June, 2023 (Tue)
- b. GT (all candidates) : 27th June, 2023 (Tue)
- c. BCC (all candidates) : 28th June, 2023 (Wed)
- d. MOMP (all candidates) : 28th June, 2023 (Wed)
7. Classes will commence from : 4th July, 2023 (Tuesday)

NOTE:-

* Candidates should bring all the Original Documents at the time of admission. No candidate shall be given admission without original documents.

* List of Documents to be attached:

1. Birth Certificate
2. HSLC Certificate
3. HSLC Marksheet
4. HSSLC Marksheet (for MOMP candidates)
5. HSSLC Certificate (for MOMP candidates)
6. Disability Certificate (if required)

*Documents to be produced at the time of counseling/admission:

1. Caste Certificate
2. Residential Certificate (Permanent)

A. INTRODUCTION

Higher & Technical Education in Mizoram: Higher & Technical Education has been established as a separate Department out of trifurcation of Education Department in April, 1989. This Department looks after Higher Education from collegiate level and upwards including science & technical education in the State. The Technical Wing of Directorate of Higher & Technical Education functions as the Secretariat of the Mizoram State Council for Technical Education (MSCTE). There are two Polytechnics under MSCTE namely Mizoram Polytechnic, Lunglei (MPL), Women's Polytechnics Aizawl (WPA). A common entrance test known as Mizoram Diploma Entrance Examination (MDEE) is used as the main criteria for selection of candidates for admission to the engineering / technology and other courses offered in these Institutions.

B. JOB PROSPECTS & CAREER OPTIONS**1. Diploma in Civil Engineering**

In the present job market scenario there are good placement opportunities available for the candidates having Diploma in Civil Engineering. Be it the government sector or the private companies, the fresh civil diploma holders are sure to get a job that suits their profile. The main job profiles for diploma holders in Civil engineering are site engineers engaged with the work of supervision, surveyors, quality control, estimation work, office procedures and draftsman. Many diploma engineers have started their own consultancy business in the field of construction and civil engineering.

2. Diploma in Electrical Engineering

It deals with the study of electricity, electronics, electromagnetism and their application. India is fast emerging as one of the largest economies of the world with a huge appetite for power and the scope in electrical engineering jobs in India are on the rise. In this area, the engineers' task involves generation, transmission and distribution of electricity and instrumentally processing the format in the fields of communication, control system, information technology, industrial electronics and instrumentation etc.

3. Diploma in Mechanical Engineering

Candidates having a Diploma in Mechanical Engineering can look for jobs in the fields of designing, mechanical drafting, costing and estimating, maintenance of machine and modification of the existing designs. Most of the engineering companies absorb suitable candidates

as trainees in their organization. Some of the job profiles for fresh mechanical engineering diploma holders are detailing engineers, CAD Application Engineers, Engineer Trainee, Trainee Design Engineer, Design Engineer Mechanical, Draughtsman Auto Cad and Structural Engineer.

4. Diploma in Computer Science & Engineering

On completion of Diploma in Computer Science & Engineering, plenty of career opportunities exist in the IT industry. They can find openings as Software Engineers, System Developers and Programmers. As they get sufficient exposure to learn computer hardware, they can become Hardware Engineers too. They can also become Network Engineers. They are eligible for the Apprenticeship training program in Industries / Organizations. Infinite opportunities in the field of Web and Multimedia designing are available. Most Multi National Corporations (MNCs) prefer diploma students for Business Process Outsourcing (BPO) and Call Centre jobs.

5. Diploma in Modern Office Management & Practice

Graduates of the diploma program may expect to find employment opportunities in both the public and private sectors, including all levels of government offices, accounting firms, hospital and educational organizations and general business offices. The Diploma holders having gained insight into the creation of a small business may start out on their own enterprise. The Diploma holders are trained for the following specific positions; administrative assistant, word processing operator, computerized book-keeping, data processing, microcomputer specialist as well as additional employment opportunities depending on the electives selected.

6. Diploma in Electronics & Telecommunication Engineering

On completion of diploma in Electronics & Telecommunication Engineering, engineers can get themselves a job in various private organization and government agencies. The engineers can vie for various posts in the Central Government, State Governments, Indian Telephone Industries, MTNL, Post and Telegraph Department, Defense, All India Radio, Civil Aviation Department, Indian Railways Co-ordination Department, National Physical Laboratory, Bharat Electronics Limited, Development Centers, Entertainment industry, Research establishments and many other IT sectors. There are an overwhelming number of jobs in the telecommunication industry as well.

7. Diploma in Garment Technology

The Garment Industry is fast developing in India. Readymade garments are being manufactured in mass scale for sale in the domestic and foreign markets. Graduates of the diploma program in Garment Technology are expected to find employment opportunities both in the public and private sector in the field of manufacturing, apparel design, marketing and sourcing for major apparel companies and hi-fashion designers. Also there are plenty of opportunities of starting their own business.

8. Diploma in Beauty Culture & Cosmetology

The business of beauty is a multi-billion world-wide industry and even in the worst of times such as a recession, it is one of the few that still rakes in the profits. The students coming out of this course will find employment as beautician, spa therapist and hair dresser in private saloons and major hotels and resorts besides having the opportunity to start their own business. They can also become sales promoters for various national and international cosmetic products.

The first Technical Institution in the State was established in 1981 under Higher & Technical Education Department, Mizoram. Most of the Laboratories and Workshops are newly constructed with the assistance of World Bank through Third Technician Education Project under Ministry of Human Resource Development (MHRD) Govt. of India. Recently, the Institute also received assistance under AICTE-NEQIP scheme for strengthening of existing laboratories, improvement of faculty and other academic reforms. Most of the laboratories have been equipped with latest technologies. The Institution is located at Hrângchalkâwn which is 8 kms from Lunglei town, 235 km from Aizawl via Hnahthial and about 170 km via Thenzawl. Polytechnic Bus and Town Bus services are the main mode of transportation from the heart of the Town of Lunglei and the adjoining villages.

The Institute offers three years Diploma Courses in the following stream. All courses have been approved by All India Council for Technical Education (AICTE) and are equipped with latest state of the art technology.

| | | |
|--------------------------------|----------|------------|
| Civil Engineering | - | 30 |
| Electrical Engineering | - | 30 |
| Mechanical Engineering | - | 20 |
| Computer Science & Engineering | - | 30 |
| Total | : | 110 |

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6. HOSTELS: Well furnished Hostel for Boys and Girls accommodating around 100 boys and 45 girls.

7. LIBRARY: The Institution is equipped with latest edition of Books, Journals and Periodicals.

8. CO-CURRICULAR ACTIVITIES

- a) There is National Service Scheme (NSS) Unit where each student is expected to enroll.
- b) Institution Week is conducted annually where students participate in various games and sports and activities like quiz, debate and singing.
- c) The institution has a Badminton court, Gymnasium and Basketball Court.

9. TRAINING & PLACEMENT

- a) Final year students undertake Industrial Visit in and outside the state as part of the curriculum.
- b) Apprenticeship training is provided to successful pass out students.
- c) Assistance for job Training and Placement for job is provided to successful pass out students.

D. WOMEN'S POLYTECHNIC, AIZAWL:

It was established in 1998 for upliftment and development of women in the field of Management, Engineering, Technology & Applied Arts and Crafts at Durtlâng, Aizawl and located at 8 km from the heart of the city. The buildings, Laboratory and Workshop are constructed under 3rd Technician Education Project of World Bank Assistance and equipped with latest state of the art facilities.

1. COURSE OFFERED: The Institute offers Diploma courses in the following stream. All the courses are approved by All India Council for Technical Education.

| 2. Name of Courses | Intake Capacity |
|---|------------------------|
| Modern Office Management & Practice | 30 |
| Electronics & Telecommunication Engineering | 30 |
| Garment Technology | 30 |
| Beauty Culture and Cosmetology | 30 |

Total**120**

3. **LABORATORY:** State of the Art Laboratory for every branch of study.
4. **HOSTEL:** Well furnished Hostel for Girls accommodating around 100 Girls.
5. **LIBRARY:** The Institute is equipped with latest edition of Books, Journals and periodical.
6. **CO-CURRICULAR ACTIVITIES**
 - a) There is National Service Scheme (NSS) Unit where each student is expected to enroll.
 - b) Institute Week is conducted annually where students participate in various games and sports and activities like quiz, debate and singing.
 - c) The institute has Badminton, Volleyball court and a Gymnasium.
7. **TRAINING & PLACEMENT**
 - a) Final year students undertake Industrial Visit in and outside the state as part of curriculum.
 - b) Apprenticeship training is provided to successful pass out students.
 - b) Assistance for on the job. Training and Placement for job is provided to successful pas out students.

E. COMMUNITY SERVICES:

In addition to the above academic courses, both polytechnic have been actively engaged in centrally sponsored community development through polytechnic schemes for the development and self-employment of rural community and other backward classes in the State. More skill development programs are now underway to be implemented in both polytechnics.

F. FEE STRUCTURE FOR POLYTECHNICS :

In reference to the Govt. approval vide memo **No.B.17011/1/2022-HTE Dt.08.06.2022** the following rates of fees for Polytechnics are to be effective from the Academic Session 2022-2023.

1. INSTITUTION :

| Sl. No. | Particulars | Approved Rates of Fees (in Rs.) |
|--------------------|-----------------------------|--|
| (1) | (2) | (3) |
| 1. | Admission Fee | 120/-p.a. |
| 2. | Tuition Fee | 200/-p.m |
| 3. | Registration Fee | 60 /-one time |
| 4. | Affiliation Fee | 20/- per student (one time) |
| 5. | Library Fee | 300/- p.a |
| 6. | Medical Fee | 100/- p.a |
| 7. | Laboratory Fee | 400/- p.a |
| 8. | Internal Examination Fee | 150/- p.a |
| 9. | Institution Development Fee | 1000/- p.a |
| 10. | Identity Card Fee | 150/- (one time) |
| 11. | Transportation Charge | 100/- p.a |
| 12. | Electric and Water Charges | 250/- p.a |
| 13. | Students Union Fee | 200/- p.a |
| 14. | Games and Sports Fee | 200/- p.a |
| 15. | Magazine Fee | 200/- p.a |
| 16. | Caution Money | 250/- p.a |
| Grand Total | | 3700/- |

2. HOSTEL :

In reference to the Govt. approval vide memo **No.A.33023/1/2022-HTE/Pt-I Dt.06.06.2022** the following rates of Hostel fees for Polytechnics are to be effective from the Academic Session 2022-2023.

| Sl. No. | Particulars | Approved Rates (in Rs.) |
|--------------------|-----------------------|--------------------------------|
| (1) | (2) | (3) |
| 1. | Admission Fee | 500/-p.a |
| 2. | Establishment Fee | 200/- p.a |
| 3. | Medical Fee | 500/- p.a |
| 4. | Game Fee | 500/- p.a |
| 5. | Caution deposit | 500/- (refundable) |
| 6. | Seat Rent | 300/- p.m |
| 7. | Light & Water Charges | 200/- p.m |
| 8. | Mess fee | 3000/- p. m. |
| Grand Total | | 5700/- |

3. EXAMINATION FEES

| Sl. No. | Item | Rate (in ₹) | Time/Mode of Payment |
|----------------|--|--------------------|-----------------------------|
| 1 | Examination fee | 400/- | Per Semester/Term |
| 2 | Examination fee for backlog/ Drop (Theory/Practical) | 150/- | Per paper |
| 3 | Practical Exam fee | 300/- | Per Semester/Term |
| 4 | Centre fee | 400/- | Per Semester/Term |
| 5 | Admit Card fee | 50/- | Per Semester/Term |
| 6 | Marksheet fee | 50/- | Per Semester/Term |
| 7 | Certificate fee | 100/- | For pass out student |
| 8 | Marksheet fee | 100/- | For pass out student |
| 9 | Migration Certificate fee | 200/- | For pass out student |
| 10 | Examination late fee | 500/- | For each per semester/term |

Note :

- These fees are to be collected from students at the time of filling up of Term-End Examination Application forms.
- The Practical Examination Fee is to be utilized for conduct of Practical Examination in the Institution.

G. ADMISSION TO DIPLOMA COURSES IN ENGINEERING / TECHNOLOGY**1. Eligibility of Candidates:**

- a) A citizen of India.
- b) Has passed High School Leaving Certificate (HSLC) Examination or its equivalent with Science and Mathematics conducted by any recognized Board of the State or Central Government for Engineering/ Technology.

- c) Has passed High School Leaving Certificate (HSLC) or its equivalent (preferably with Science) conducted by any recognized Board of the State or Central Government for Garment Technology and Beauty Culture & Cosmetology.
- d) Has passed Higher Secondary School Leaving certificate (HSSLC) Examination or its equivalent in any course conducted by any recognized Board of the State or Central Government for Modern Office Management & Practice course.
- e) Has passed the High School Leaving Certificate Examination (HSLC) or its equivalent with Science and Mathematics conducted by any recognized Board of the State or Central Government or have appeared in the High School Leaving Certificate (HSLC) Examination but the result of such Examination having not been declared for other courses.
- f) Provided that such applicants who have not got their result sheets at the time of submission of their applications, should submit their final results with Mark Sheet within fifteen days from the date of publication of their results by the concerned Examination Board.
- g) Age limit will be between 15-25 years and there will be 5 years upper age limit relaxation for Scheduled Tribe/Scheduled Caste/ Other Backward Classes. Age limit for department candidates for direct admission on nomination from State Government Department / Autonomous District Council within Mizoram State will be up to 45 years.

H. METHOD OF SELECTION AND CATEGORIES

Method of Categorization and method of Selection to be applied will be notified by competent authority in due course of time.

I. APPLICATION FORM

- 1) All applications in prescribed form may be obtained from the office of the Secretary, Mizoram State Council for Technical Education and Polytechnic Institutions on payment of such fees as may be prescribed, and the forms duly filled in should be submitted to the Secretary, Mizoram State Council for Technical Education for which a specified date is fixed. Applications received after the specified date shall not be accepted.
- 2) Every application form duly filled in shall be accompanied by attested copies of the following documents:-

- a) Certificate and Mark Sheet of the Higher Secondary School Leaving Certificate Examination or its equivalent conducted by any recognized Board of the State or Central Government (For Modern Office Management & Practice only).
- b) Certificate and Mark Sheet of High School Leaving Certificate or its equivalent conducted by any recognized Board of the State or Central Government (For other courses).
- c) Certificate showing the caste/tribe/class of the candidate in case he is a member of Scheduled Caste, Scheduled Tribe or Other Backward Class issued by the Deputy Commissioner of the Administrative District or any other competent authority in the Administrative District in which the applicant resides.
- d) Three copies of recent passport-size photographs, printed from the same photo-negative, attested on the front side by a Gazetted Officer; one copy of which is to be firmly affixed to the application form, while the other two copies shall be used for Admission Card and for office record.
- e) A candidate not in possession of the aforementioned Certificates and Mark sheets at the time of submission of his/her application form may submit authenticated provisional documents issued by the concerned Board conducting the examination or by the Principal of the Educational Institute therein. The decision of the Selection Board on the authenticity of the documents shall be final and no representation on that score shall be entertained. Incomplete application shall be summarily rejected without assigning any reason thereof.

J. APPLICATION FEE

Information Brochure may be downloaded from website www.dhte.mizoram.gov.in and may be purchased from Technical Wing Office, Chaltlang on payment of ₹50/-

Every candidate shall have to pay ₹250/- (Rupees two hundred fifty) as Examination fees.

Fees once paid shall not be refunded.

K. APPLICATION FORM

1. All application forms must be properly filled in.
2. Incomplete application form shall be rejected.
3. Applications received after last date shall not be entertained.

L. MODE OF EXAMINATION

Selection of Candidates shall be done through Mizoram Diploma Entrance Examination (MDEE) in Science, Mathematics, English and General Studies (for MOMP) as prescribed from time to time by the concerned discipline. The Compulsory papers for each of the courses are given in Table

1. Compulsory papers for each Diploma course

| Sl. No | Courses | Entry Level | Compulsory Papers |
|--------|-----------------------------------|---------------------|--|
| 1. | Engineering & Garment Technology | HSLC or equivalent | Mathematics, Physics, Chemistry, English |
| 2 | Beauty Culture & Cosmetology | HSLC or equivalent | Biology, Physics, Chemistry, English |
| 3 | Modern Office Management Practice | HSSLC or equivalent | English, General Studies, Mathematics |

2. The standard of Entrance Questions to be answered by the candidates of Serial No. 1 & 2 in Written Examination shall be equivalent to the courses of HSLC (Class X) standard of the Mizoram Board of School Examination (MBSE) and Candidates of Serial No. 3(except Mathematics) shall be of HSSLC (Class XII) standard of MBSE.

3. Marks Distribution for Engineering/Technology:

| | | | | | |
|--------------------|---|----|---------|---|----|
| Mathematics | - | 30 | Physics | - | 25 |
| Chemistry | - | 25 | English | - | 20 |
| Total - 100 | | | | | |

Marks Distribution for Beauty Culture & Cosmetology:

| | | | | | |
|--------------------|---|----|---------|---|----|
| Biology | - | 30 | Physics | - | 25 |
| Chemistry | - | 25 | English | - | 20 |
| Total - 100 | | | | | |

Marks Distribution for Modern Office & Practice:

Mathematics - 40 English - 30

General Studies - 30

Total – 100

4. All the Entrance Examination questions shall be Multiple Choice Question (MCQ). Each candidate will be provided OMR answer sheet 15 minutes before commencement of the examination. Candidates will fill in the required particulars on the answer sheet **with black/blue Ball Point Pen only**. Candidates shall bring their own pens with them for use during examination.
5. Written Examination shall be conducted by the Technical Wing under Higher & Technical Education on behalf of the Mizoram State Council for Technical Education.

M. ADMIT CARD

1. All candidates should bring their Admit Card for entry to the Examination Hall and produce the same before the Invigilator or any other Officers as may be authorized before and during the conduct of the Examination.
2. Candidates should retain their Admit Card to check exam results.

N. SYLLABUS

All eligible candidates shall have to appear for a Written Test / Examination as per prescribed syllabus given below: (Syllabus for MOP Mathematics is HSLC standard)

1. SYLLABUS FOR ENGINEERING/TECHNOLOGY / BEAUTY CULTURE:

PHYSICS

- a) **Motion:** Distance and displacement, volume; uniform and non-uniform motion along straight line; acceleration, distance-time and velocity-time graphs for uniform and uniformly accelerated motion.
- b) **Force and Newton's laws :** Force and motion, Newton's laws of motion, inertia of a body, inertia and mass, momentum,

- force and acceleration, elementary idea of conservation of momentum, action and reaction forces.
- c) **Gravitation and Floatation** : Gravitation; universal law of gravitation, force of gravitation of the earth (gravity), acceleration due to gravity; mass and weight; free fall, thrust and pressure, Archimedes' principle, buoyancy, elementary idea of relative density.
 - d) **Work and Energy** : Work, Energy and Power Work done by a force, power; kinetic and potential energy; law of conservation of energy.
 - e) **Sound** : Nature of sound its propagation in various media, speed of sound, range of hearing in humans; ultrasound; reflection of sound; echo and SONAR, structure of the human ear (auditory aspect only).
 - f) **Natural Phenomena**: Convergence and divergence of light. Images formed by a concave mirror; related concepts; centre of curvature; principal axis. Optic centre, focus, focal length. Refraction; laws of refraction. Image formed by a convex lens; functioning of a lens in human eye; problems of vision and remedies.
 - g) **Magnets and Effects of Current**: Magnetic field, field lines, field due to a current carrying wire, field due to current carrying coil or solenoid; Force on current carrying conductor, Fleming's left hand rule. Electromagnetic induction. Induced potential difference, Induced current. Direct current. Alternating current; frequency of AC. Advantage of AC over DC. Domestic electric circuits. Potential, Potential difference, Ohm's law; Series combination of resistors, parallel combination of resistors; Power: dissipation due to current; Interrelation between P,V,I and R.

CHEMISTRY

- a) **Matter in Our Surroundings**: Definition of matter; Particle nature, solid, liquid and gas; characteristics shape, volume, density; change of state-melting (absorption of heat), freezing, evaporation (Cooling by evaporation), condensation, sublimation.

- b) Is Matter Around Us Pure:** Elements, compounds and mixtures. Heterogeneous and homogeneous mixtures, colloids and suspensions.
- c) Atoms and Molecules:** Atoms and molecules. Law of constant proportions. Atomic and molecular masses. Mole Concept, Relationship of mole to mass of the particles and number, Valency, Chemical formula of common compounds.
- d) Structure of the Atom:** Electrons, protons and neutrons; Isotopes and isobars. Cell-Basic Unit of life : Cell as a basic unit of life; prokaryotic and eukaryotic cells, multi-cellular organisms; cell membrane and cell wall, cell organelles; chloroplast, mitochondria, vacuoles, ER, Golgi apparatus; nucleus, chromosomes-basic structure and number.
- e) Chemical Substance-Nature and Behaviour:** Acids, bases and salts: General properties, examples and uses.
- f) Chemical reactions:** Types of chemical reactions: combination, decomposition, displacement, double displacement, precipitation, neutralization, oxidation and reduction in terms of gain and loss of oxygen and hydrogen.
- g) Metals and non-metals:** Brief discussion of basic metallurgical processes. Properties of common metals. Elementary idea about bonding.
- h) Carbon Compounds:** Carbon compounds, elementary idea about bonding. Saturated hydrocarbons, alcohols, carboxylic (no preparation, only properties). Some Important chemical compound: Soap-cleansing action of soap. Periodic classification of elements

MATHEMATICS

- a) Number System:** Irrational number as non-terminating and non-repeating decimals. Real numbers and the real number line. Surds and Rationalization of surds. Representation of sets, equal sets, subsets, power set, universal set.
- b) Commercial Mathematics:** Simple and Compound Interest, Ratio and Proportion, Cost of Living Index, Sales tax, Installments payments and installments buying.
- c) Algebra:** Polynomials - G.C.D and L.C.M of polynomials by factorization, Linear Equations in Two Variables, Quadratic Equations, Arithmetic Progression

- d) **Geometry:** Lines and Angles, Concurrent Lines in a Triangle, Quadrilaterals and Parallelograms, Area and Circles.
- e) **Coordinate Geometry:** The Cartesian plane, co-ordinates of a point, linear equations of the type $ax+by+c=0$, Distance between two pairs and section formula (internal). Area of a triangle
- f) **Trigonometry:** Trigonometric ratios and identities, Trigonometric ratios of complementary angles, Simple problems on heights and distances.
- g) **Mensuration:** Concept of surface area, Surface areas and volumes of cubes, cuboids, spheres (including hemispheres) and right circular cylinders/cones.
- h) **Statistics and Probability:** Collection of data, presentation of data – tabular form, ungrouped/grouped, bar graphs, histograms (with varying base lengths), frequency polygons. Mean, median, mode of ungrouped data. Pictorial representation of data
- i) **Time, Distance and Work:** Solution of problems based on time, work and distance.

ENGLISH

- a) Verbs and Tenses: Present/past forms Simple/continuous forms Perfect forms, Future time reference
- b) Sentence Structure : Connectors, Types of sentences Affirmative, interrogative sentences, Negation Exclamations
- c) Other Areas, determiners, pronouns, prepositions Punctuation, synonyms/antonyms, word order in sentence type
- d) Literature
 - **Character:** as revealed through appearance and distinguishing features, socio - economic background, action/events, expression of feelings, speech and dialogues
 - **Plot/Story/Theme:** emerging through main events, progression of events and links between them, sequence of events denoting theme
 - **Setting:** as seen through time and place, socio-economic and cultural background, people, beliefs and attitudes
 - **Form:** rhyme, rhythm, simile, metaphor, alliteration, pun, repetition

BIOLOGY

- a) **Tissues:** Structure and functions of animal and plant tissues (four types in animals; meri-stematic and permanent tissues in plants).
- b) **Diversity in Living Organisms:** Diversity of plants and animals-basic tissues in scientific naming, basis of classification. Hierarchy of categories/groups, Major groups of plants (salient features) (Bacteria, Thallophyta, Bryophyta, Pteridophyta, gymnosperms and Angiosperms). Major groups of animals (salient features) (Non-chordates up to phyla and chordates up to classes).
- c) **Why Do We Fall Ill:** Health and its failure. Infectious and Non-infectious diseases, their causes and manifestation. Diseases caused by microbes (Virus, Bacteria and protozoans) and their prevention, Principles of treatment and prevention. Pulse polio programme.
- d) **Improvement in Food Resources:** Plant and animal breeding and selection for quality improvement and management; use of fertilizers, manures; protection from pests and diseases; organic farming.
- e) **The world of the living:**
 - **Our environment:** Environmental problems, their solutions. Biodegradable, non-biodegradable, Ozone depletion Life Processes: “living” things; Basic concept of nutrition, respiration, transport and excretion in plants and animals.
 - **Control and Co-ordination in plants and animals:** Tropic movements in plants; Introduction to plant hormones; control and co-ordination in animals: involuntary and reflex action, nervous system; chemical co-ordination, animal hormones.
 - **Reproduction:** Reproduction in plants and animals. Need for and methods of family planning. Safe sex vs HIV, AIDS. Child bearing and women’s health.
 - **Heredity and evolution:** Heredity; Origin of life: brief introduction; Basic concepts of evolution.
- f) **Natural Resources:** Air, Water, Soil. Air for respiration, for combustion, for moderating temperatures, movements of air and it’s in bringing rains across India. Air, water and soil pollution (brief introduction) Holes in ozone layer and the probable damages. Bio-geo chemical cycles in nature; Water,

oxygen, carbon, nitrogen. Different forms of energy, leading to different sources for human use: fossil fuels, solar energy; biogas; wind, water and tidal energy; nuclear energy. Renewable versus non-renewable resources.

2. SYLLABUS FOR MODERN OFFICE MANAGEMENT & PRACTICE

ENGLISH

- a) Read and comprehend extended texts (prescribed and non-prescribed) in the following genres: fiction, science fiction, drama, poetry, biography, autobiography, travel and sports literature, etc.
 - b) Text-based writing (i.e., writing in response to questions or tasks based on prescribed or unseen texts)
 - c) Write formal/informal letters and applications for different purposes.
 - d) Write items related to the workplace (minutes, memoranda, notices, summaries, reports; filling up of forms, preparing CVs, e-mail messages, etc.).
 - e) The uses of different tense forms for different kinds of narration (e.g. media commentaries reports, programmes, etc.).
 - f) The use of passive forms in scientific and innovative writings
 - g) Converting one kind of sentence/clause into a different kind of structure as well as other items to exemplify stylistic variations in different discourses.
 - h) Modal auxiliaries-uses based on semantic considerations.
-

GENERAL STUDIES

- a) Indian culture - Indian culture will cover the salient aspects of Art Forms, Literature and Architecture from ancient to modern times, Mizo heritage and culture

- b) Modern Indian history from about the middle of the eighteenth century until the present significant events, personalities, issues. The Freedom Struggle its various stages and important contributors /contributions from different parts of the country.
 - c) Appointment to various Constitutional posts, powers, functions and responsibilities of various Constitutional Bodies. Governance and politics in Mizoram since 1947
 - d) Indian Economy and issues relating to planning, mobilization of resources, growth, development and employment. Mizoram Economic Survey 2014-2015
 - e) Science and Technology developments and their applications and effects in everyday life Achievements of Indians in science & technology; indigenization of technology and developing new technology.
 - f) Awareness in the fields of IT, Space, Computers, robotics, nanotechnology, biotechnology and issues relating to intellectual property rights.
 - g) Conservation, environmental pollution and degradation, environmental impact assessment Disaster and disaster management.
 - h) Salient features of world's physical geography.
 - i) Ethics, human values – lessons from the lives and teachings of great leaders, reformers and administrators; role of family, society and educational institutions in inculcating values.
 - j) World of Games and Sports – National and international
-

O. MODALITIES FOR CONDUCT OF ENTRANCE EXAMINATION

1. **Date of Examination:** The Selection Test/Examination will be conducted every year as notified by the Secretary, Mizoram State Council for Technical Education.
2. Scheme of Examination
3. Duration of written examination is 3 hours.
4. The questions will be of objective type only.
5. Each objective question shall carry one or two mark(s). More than one answer indicated against a question will be deemed as incorrect answer. Questions without any response shall be awarded ZERO marks.

P. EXAMINATION CENTRE

The Selection Examination shall be held every year at the place(s) notified by Secretary, Mizoram State Council for Technical Education.

Q. RULES TO BE FOLLOWED IN THE EXAMINATION HALL

All candidates have to follow rules indicated in Admit Card.

R. RESULTS

The Technical Wing shall prepare a list of successful candidates in order of merit on the basis of the marks obtained in the Entrance Examination. The merit list shall be equal to the number of seats available for allotment in the reserved quota/seats in the concerned discipline. There shall also be waiting list equal to 50% of the merit list in each concerned discipline.

S. INSTRUCTION FOR FILLING UP APPLICATION FORM**1. Name of Exam Centers and Code**

| | | |
|------------------------------|---|-----|
| Mizoram Polytechnic, Lunglei | - | MPL |
| Women's Polytechnic, Aizawl | - | WPA |

2. Category and Code

| | | |
|----------------------|---|-----|
| Scheduled Tribe | - | ST |
| Scheduled Caste | - | SC |
| General | - | Gen |
| Other Backward Class | - | OBC |

3. Gender and code

| | | |
|--------|---|---|
| Male | - | M |
| Female | - | F |

T. SAMPLE FOR FILLING OF APPLICATION FORM**DETAILS OF APPLICANT:**

| | | |
|---|---|-------------------------------------|
| Name | : | V.L. MAWIA RALTE |
| Father's name (in block letters) | : | THANGA |
| Date of Birth | : | 03.07.2002 |
| Place of Birth | : | Aizawl |
| Religion | : | Christian (if Christian) |
| Sex | : | M (if Male) |
| Nationality | : | Indian (if Indian) |
| Caste | : | ST (if Scheduled Tribe) |
| Person with Disability (PwD) | : | [Yes/No] (No if not disable person) |

PERMANENT ADDRESS:

House No. : KLB/68
 Locality Khua/Veng) : Dawrpui, Aizawl
 Pin Code : 796007
 District : Aizawl District
 State : Mizoram
 Nearest Police Station : Aizawl Police Station
 Email : vlmawia_ralte@gmail.com
 Mobile No. : 9632154870
 Landline /Alternate : 0389-2340603

PARTICULARS IN ENTRY QUALIFICATION:

Last School attended : Modern English School
 Name of Exam : HSLC
 Name of Board : MBSE
 Awaiting Result (Yes/No) : No (if already passed)
 Year of Passing : 2018
 Full Mark : 1000
 Total Mark obtained : 540
 Division : II (if Second Division)

For those who have higher qualification than the entry qualification:

Last School attended : Modern English Higher Sec. School
 Name of Exam : HSSLC
 Name of Board : MBSE
 Year of Passing : 2020
 Full Mark : 1000
 Total Mark obtained : 570
 Division : II (if Second Division)

Select Examination Centre*:

(You can select either Mizoram Polytechnic Lunglei (MPL) or Women's Polytechnic, Aizawl (WPA))

Select Course for writing Entrance Test* :

| Course | Code |
|--|------|
| <input type="checkbox"/> Engineering & Garment Technology | 001 |
| <input type="checkbox"/> Beauty Culture & Cosmetology | 002 |
| <input type="checkbox"/> Modern Office Management & Practice | 003 |

* Entrance Examination Fee ☐ 250/- (For all courses)

Note: You can select any of the courses, or multiple courses as you like.

LIST OF DOCUMENTS TO BE ATTACHED:

| Sl. no. | Documents attached | Yes/No |
|----------------|---------------------------|-------------------|
| 1) | Passport size Photo * | [Yes] if attached |
| | Birth Certificate * | [Yes] if attached |
| 2) | HSLC Certificate * | [Yes] if attached |
| 3) | HSLC Mark sheet * | [Yes] if attached |
| 4) | HSSLC Mark sheet * | |
| | (for MOMP candidates) | [Yes] if attached |
| 5) | Caste Certificate | [Yes] if attached |
| 6) | Residential Certificate | [Yes] if attached |
| 7) | Disability Certificate | [Yes] if attached |
| | (for disable applicant) | |

Note: *The above mentioned documents marked with asterisk (*) are all mandatory for candidates who have already passed the required Entry qualification, whereas HSLC/HSSLC Mark sheet and Certificate are not mandatory for candidates who are awaiting results of the Entry Qualification.*

Sl. No. 5 & 6 of the above mentioned documents along with all the uploaded documents (in original) should be produced by the candidates at the time of Counseling/Admission.

U. SAMPLE ADMIT CARD

ADMIT CARD

Mr/Mrs. **V.L. Mawia Ralte**

Son/Daughter of Vanlalthanga

Bearing Roll No _____ **(to be filled by Centre Supt)**

is allowed to sit in the Mizoram Diploma Entrance

Examination : 2023

Passport
Size
Photo

Written Examination: 24th May, 2023(Wednesday) at

Engg/Tech/BCC : 10:00 am - 1:00 pm

Modern Office Management Practice: 1:30 pm - 4:30 pm

Examination Centres for MDEE 2023

Mizoram Polytechnic, Lunglei

☐

Women's Polytechnic, Aizawl

☐

V. INSTRUCTIONS FOR USE OF OMR ANSWER SHEET

Sample OMR Sheet

**MIZORAM STATE COUNCIL FOR TECHNICAL EDUCATION
MIZORAM DIPLOMA ENTRANCE EXAMINATION
OMR ANSWER SHEET**

SIDE-2

1. NAME OF THE CANDIDATE, USE ENGLISH CAPITAL LETTERS ONLY.

2. FATHER'S NAME, USE ENGLISH CAPITAL LETTERS ONLY.

3. ROLL NO.

| | | | | | |
|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 |

4. DATE OF EXAMINATION

| | | | | | | | |
|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| D | D | M | M | Y | Y | Y | Y |
| <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |

110149



BARCODE

ANSWERS

| | | | | |
|--------------------|--------------------|--------------------|--------------------|---------------------|
| 1 (A) (B) (C) (D) | 21 (A) (B) (C) (D) | 41 (A) (B) (C) (D) | 61 (A) (B) (C) (D) | 81 (A) (B) (C) (D) |
| 2 (A) (B) (C) (D) | 22 (A) (B) (C) (D) | 42 (A) (B) (C) (D) | 62 (A) (B) (C) (D) | 82 (A) (B) (C) (D) |
| 3 (A) (B) (C) (D) | 23 (A) (B) (C) (D) | 43 (A) (B) (C) (D) | 63 (A) (B) (C) (D) | 83 (A) (B) (C) (D) |
| 4 (A) (B) (C) (D) | 24 (A) (B) (C) (D) | 44 (A) (B) (C) (D) | 64 (A) (B) (C) (D) | 84 (A) (B) (C) (D) |
| 5 (A) (B) (C) (D) | 25 (A) (B) (C) (D) | 45 (A) (B) (C) (D) | 65 (A) (B) (C) (D) | 85 (A) (B) (C) (D) |
| 6 (A) (B) (C) (D) | 26 (A) (B) (C) (D) | 46 (A) (B) (C) (D) | 66 (A) (B) (C) (D) | 86 (A) (B) (C) (D) |
| 7 (A) (B) (C) (D) | 27 (A) (B) (C) (D) | 47 (A) (B) (C) (D) | 67 (A) (B) (C) (D) | 87 (A) (B) (C) (D) |
| 8 (A) (B) (C) (D) | 28 (A) (B) (C) (D) | 48 (A) (B) (C) (D) | 68 (A) (B) (C) (D) | 88 (A) (B) (C) (D) |
| 9 (A) (B) (C) (D) | 29 (A) (B) (C) (D) | 49 (A) (B) (C) (D) | 69 (A) (B) (C) (D) | 89 (A) (B) (C) (D) |
| 10 (A) (B) (C) (D) | 30 (A) (B) (C) (D) | 50 (A) (B) (C) (D) | 70 (A) (B) (C) (D) | 90 (A) (B) (C) (D) |
| 11 (A) (B) (C) (D) | 31 (A) (B) (C) (D) | 51 (A) (B) (C) (D) | 71 (A) (B) (C) (D) | 91 (A) (B) (C) (D) |
| 12 (A) (B) (C) (D) | 32 (A) (B) (C) (D) | 52 (A) (B) (C) (D) | 72 (A) (B) (C) (D) | 92 (A) (B) (C) (D) |
| 13 (A) (B) (C) (D) | 33 (A) (B) (C) (D) | 53 (A) (B) (C) (D) | 73 (A) (B) (C) (D) | 93 (A) (B) (C) (D) |
| 14 (A) (B) (C) (D) | 34 (A) (B) (C) (D) | 54 (A) (B) (C) (D) | 74 (A) (B) (C) (D) | 94 (A) (B) (C) (D) |
| 15 (A) (B) (C) (D) | 35 (A) (B) (C) (D) | 55 (A) (B) (C) (D) | 75 (A) (B) (C) (D) | 95 (A) (B) (C) (D) |
| 16 (A) (B) (C) (D) | 36 (A) (B) (C) (D) | 56 (A) (B) (C) (D) | 76 (A) (B) (C) (D) | 96 (A) (B) (C) (D) |
| 17 (A) (B) (C) (D) | 37 (A) (B) (C) (D) | 57 (A) (B) (C) (D) | 77 (A) (B) (C) (D) | 97 (A) (B) (C) (D) |
| 18 (A) (B) (C) (D) | 38 (A) (B) (C) (D) | 58 (A) (B) (C) (D) | 78 (A) (B) (C) (D) | 98 (A) (B) (C) (D) |
| 19 (A) (B) (C) (D) | 39 (A) (B) (C) (D) | 59 (A) (B) (C) (D) | 79 (A) (B) (C) (D) | 99 (A) (B) (C) (D) |
| 20 (A) (B) (C) (D) | 40 (A) (B) (C) (D) | 60 (A) (B) (C) (D) | 80 (A) (B) (C) (D) | 100 (A) (B) (C) (D) |

5. CANDIDATE'S
SIGNATURE6. INVIGILATOR'S
SIGNATURE

1215-725

INSTRUCTIONS

1. Use Black/Blue Ball Point Pen only.
2. Marks should be DARK and should completely fill the bubble/ovals so that the alphabet inside the bubble/oval is not visible.
3. Darken only ONE bubble/oval for each question as shown in the example below. If you darken more than one bubble/oval, your answer will be treated as wrong.

WRONG METHODS

A B C D

WRONG METHODS

X B C D

WRONG METHODS

A B C D

WRONG METHODS

A B C D

RIGHT METHOD

A B C D

4. CHANGING AN ANSWER is not allowed. The candidates must fully satisfy themselves about the accuracy of the answer before darkening the appropriate bubble/oval as no change in answer once marked is allowed. Use of eraser, whitener / correction fluid on the answer sheet is not permissible as the Answer Sheets are machine readable & it may lead to wrong evaluation.
5. Answers should be filled in carefully only in the bubble/oval space provided. Please do not make any stray marks on the answer sheet.
6. Rough work MUST NOT be done on the answer sheet. Use your test booklet for this purpose.
7. Mark your answer only in the appropriate space against the number corresponding to the question you are answering.
8. The candidate will hand over the OMR sheet to the Invigilator before leaving the examination hall.

***** **End of Brochure** *****