



गजानन टेक्नीकल इन्स्टीटयुट, कडा

(Advance DMLT Course)

Address: Gajanan Nagar, P.H.C. Road, At. Post. Kada, Tal. Ashti Dist. Beed.

Telephone: - 02441 - 239065, 239066 Mobile No. : - 9423471426, 9403484851.



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Shree Shikshan Sanstha, Ashti, Tal. Ashti, Dist. Beed.

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गजानन टेक्नीकल इन्स्टीटयुट, कडा

(Advance DMLT Course)

Recognised by Dept. of Higher & Technical Education, Mantralaya

Mumbai & D.T.E. Mumbai

Affiliated to MSBTE Mumbai

D.T.E. Code:-2263 * MSBTE Code:-0733

Prospectus + Application Form Cost = 100 /- Rs.

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Your Path to a Health Care Career

Medical laboratory technology is one of the most rapidly expanding health care fields. As a medical laboratory technician, you will play an increasingly important role in health care delivery. The MLT Program provides extensive training, including a clinical internship with supervised work experience.

Why MLT?

MLT is in High Demand

The health care industry is in the midst of one of the most significant shortages of trained personnel in its history, and leaders predict this trend will continue. The shortage of laboratory personnel is expected to remain high because in the near future many of the current practitioners will be entering retirement years, and not enough programs exist to meet the needs of the industry.

- [The American Society for Clinical Laboratory Science](#)
- [The American Society for Clinical Pathology \(ASCP\)](#)
- [International Federation of Biomedical Laboratory Science](#)
- [American Medical Technologists \(AMT\)](#)
- [American Society of Phlebotomy Technicians](#)

Who Are MLTS?

MLT's are the health care professionals who perform the test procedures in the hospital clinical laboratory. MLTs also work in small doctor's office labs, in large private labs, in veterinary clinics, and in research labs. Some MLT's are trained to work on complex laboratory instruments or in development of laboratory information systems.

As an MLT you will know how to use sophisticated instruments to perform critical tests to aid in the diagnosis, prognosis and treatment of diseases. You will know how to identify normal and abnormal blood cells to assist with diagnosis of anemias and leukemias; be able to perform chemistry tests to measure blood glucose, heart enzymes and drug levels; quickly run procedures to ensure that trauma patients receive safe units of blood; and, identify bacteria, fungi and parasites which cause infections. There are hundreds of other tests that you will be qualified to perform.

As a member of the health care team, your work is extremely valuable to a wide spectrum of individuals in your community, from the healthy person monitoring cholesterol levels to the critically injured patient taken to the hospital by helicopter. As an MLT and member of the health care team, you will make a difference in many people's lives.



Careers in Medical Laboratory Technology

What will I do on the job?

Your responsibilities will vary according to the size of the institution for which you work and the extent of services it offers. Your work may include:

- collection, screening and processing of blood transfusion components
- blood glucose determinations for diabetes and hypoglycemia
- isolation and identification of disease-causing organisms
- determination of appropriate antibiotics
- blood-clotting studies to detect hemophilia and related disorders
- blood analyses to aid in the identification of cancer, leukemia and anemia
- communication with patients and medical staff
- use of computer technology and advanced automated equipment

Specialty Areas of the Clinical Laboratory

Chemistry:

measuring levels of chemicals produced by glands and organ systems, analyzing body fluids using techniques of chemical analysis.

Hematology:

detecting and classifying the different types of cells in blood in order to identify anemias, leukemias, coagulation abnormalities and malignancies, making observations using microscopes, chemical techniques, and electronic counting devices.

Blood Bank:

performing serological procedures for detection of various conditions, preparing blood products for patients with long-term illnesses and cancer.

Microbiology:

detecting and identifying bacterial, fungal, parasitic and viral organisms that cause infection and disease.

Who Will Hire Me?



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As a medical laboratory technician, you will find job opportunities in a variety of settings:

- hospital laboratories
- independent clinical laboratories
- physicians' office laboratories
- local and state health agencies
- sales and service industry
- education institutions
- consulting firms
- volunteer organizations
- blood banks
- veterinary clinics and hospitals

General Introduction:

Education is a life long process which begins at birth and continues till the end of life. One of the major objectives of education at all levels is that it should enable the individual to secure employment after formal education. This aim of education is looked down upon by the critics among educationists but it has to be realised through education, as otherwise, the total life of the realised through education, will be miserable. The aim of employability helps him to preserve his dignity and respect as a human being. His basic physiological needs are satisfied by the emoluments from employment. Job satisfaction and recognition result when the adult secures a job or vocation for which he has the aptitude. Further, society regards the adult as a bread-winner for the family. He should look after himself and maintain his family which is depending on him. For economic efficiency, Social effectiveness and professional satisfaction of the citizen, job-oriented education should be provided at all levels:

Employment could be classified under two categories:

- (1) Employment by other agencies and
- (2) Self - employment.



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Employment by other Agencies:

The public and private sector hospitals / industries and enterprises employ people, by paying them monthly salaries or wages. (Now a days it is also called as package). Placement in a job is based on the ability of the employee to satisfy the job requirements. Service conditions and salaries are usually commensurate with job requirements and job satisfaction. There are several advantages in this type of employment: (i) the employee has job security; (ii) the factors of risk and responsibility for the employee are less; and (iii) regular monthly income is assured. The disadvantages are: (i) The employee cannot exercise his ability of decision making in his place of work, unless he holds administrative designation. (ii) The employee in most cases is a mere subordinate and subservient to the boss.

Self - Employment - There are several advantages of the individual undertaking self-employment:

- 1) The self-employed person is independent. He is not a subordinate to an outside authority and is his own master. He can make the best use of his creative talents and is motivated to succeed in the venture he undertakes.
- 2) Whatever profits he gets, depending on the input he has made into his self employment scheme will be to his advantage.
- 3) As and when required he can give employment to others.
- 4) He could contribute to the national wealth, public health, productivity and prosperity in his own style.
- 5) He enjoys the sense of job satisfaction, the feeling of achievement, success and recognition.
- 6) By working hard, he could save for the future of his family and for himself.

Education given to our young boys and girls should provide them with the skills, knowledge and understanding needed for self-employment. Technical & Vocational courses of education which are terminal in nature and which will build the much needed skills to be self-employed should be part of the school and college curriculum.

Training is an important component of Human Resources Development. Training provides an opportunity to update knowledge and skills required, to carry out the tasks efficiently and effectively, for improving the program performance. It is said that, the expenditure incurred on training is much less than the losses, due to improper performance by the untrained workers. Thus the expenses on training are the long term investments for better implementation of any program.



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AIMS / OBJECTIVES OF THE Ad.DMLT COURSE

(Recognised by Govt. of Maharashtra, DTE Mumbai)

Modern life is dependent on various things and commodities, one of the essential things is the medical aid that is of paramount importance and become part and parcel of the human life. The pathology is also one of the essential parts of medical aid, as the routine blood testing, urine and stool examinations are the basic requirements for diagnosis of various common as well as serious illness. On the basis of such pathological examinations the medical practioners and consultants can decide the medicinal therapy to cure various diseases and illness. Even to control epidemics it is necessary to examine various parameters, which are based on pathological techniques. In comparison with the total population of India the medical facilities including pathological services and diagnostic centers available at present are insufficient and hence due to inadequacy of such essential services the rate of viral infection and epidemics is enhancing which is an alarming signal for danger to human life. By keeping this view in mind as well as by considering the increasing need of more pathological laboratories and diagnostic centres at various remote place as well as rural and urban too, the MSBTE felt it very much necessary to revise the existing curriculum of Advance Diploma in Medical Laboratory Technology and to bring it to such level by incorporating all necessary allied pathological medical science and technology in the revised curriculum, so that the passouts of this Advance Diploma in Medical Laboratory Technology course can serve the society as the most responsible pathologist and best human beings. Thus the task of updating the present curriculum of Advance Diploma in Medical Laboratory Technology in pace with the modern development in medical science and technology has been undertaken, so that after passing this Advance Diploma in Medical Laboratory Technology the fresh diploma holders may accept the job opportunities in various pathological Laboratories and diagnostic centre in the job ladder pathological technician, senior pathological technician, incharge of pathological laboratory etc; or otherwise they may start their own clinical laboratory after completion of some years Practice under the guidance of practicing M.D. Pathologist / approved pathological laboratory or department of reputed / Government / Civil hospital.

The Objectives of this Ad. DMLT Course are:

- 1) To induce life long learning skills, attitudes for social & personal development.
- 2) To provide trained man power.
- 3) To provide leadership qualities.
- 4) To create awareness of importance of cleanliness in our day to day activities.
- 5) To create awareness of health hazards due to epidemics.
- 6) To assist in development of new methods and techniques for the detection of various micro-organisms, bacteria, viruses as well as abnormalities in blood and blood cells etc. to have correct diagnosis of the diseases and subsequent proper implementation of medicinal therapy to have fast cure of patient.
- 7) To develop pathological managerial skills and trained pathologist.

(Ref.: MSBTE, MUMBAI Syllabus page No. 4-5)



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JOB OPPORTUNITIES TO Ad.DMLT PERSONS

A) WAGE EMPLOYMENT

- 1) Technician/ Senior pathology Technician / Incharge of pathology lab. in Bio- Chemistry Dept. in teaching Medical College / Hospital.
- 2) Technician / Senior pathology Technician / Incharge of pathology lab. in Microbiology Dept. in teaching Medical College / Hospital.
- 3) Technician/ Senior pathology Technician / In charge of pathology lab. in pathology Dept. in teaching Medical College / hospital.
- 4) Technician/ Senior pathology Technician / In charge of pathology lab. in Blood Bank in teaching Medical College/ Govt. Hospital / Private blood Bank.
- 5) Technician / Senior pathology Technician / In charge of pathology lab (Museum) in pathology Dept. in teaching Medical College / hospital.
- 6) Technician / Senior pathology Technician in forensic Laboratory.
- 7) Hematology Technician / Senior pathology Technician in physiology Dept. in teaching Medical College.
- 8) Histology / Histopathology technician in Anatomy Dept. in teaching Medical College.
- 9) Technician / Senior pathology Technician in University Bio-Chemistry Department.
- 10) Technician / Senior pathology Technician in University Microbiology Department.
- 11) Lab. Technician / Senior pathology Technician in Home Science teaching college Laboratory.
- 12) Lab. Technician / Senior pathology Technician Bio-Chemistry Dept. in non-medical College.
- 13) Lab. Technician / Senior pathology Technician in Microbiology Dept. in non-medical College.
- 14) Lab. Technician / Senior pathology Technician in Dental College.
- 15) Lab. Technician / Senior pathology Technician in Pharmacy College.
- 16) Lab. Technician / Senior pathology Technician in Veterinary College.
- 17) Lab. Technician / Senior pathology Technician in Fisheries College.
- 18) Lab. Technician / Senior pathology Technician in PHC / CHC / Rural hospital / Taluka hospital.



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- 19) Lab. Technician / Senior pathology Technician in private hospitals, Nursing homes and diagnostic laboratories.
- 20) Technician / Senior pathology Technician in various firms manufacturing vaccines, antisera and diagnostic kits.
- 21) Technician / Senior pathology Technician in Dairy Industries.
- 22) Lab. Technician / Senior pathology Technician in Central Laboratories.
- 23) Lab. Technician / Senior pathology Technician / Incharge of pathology lab. in Municipal Corporation hospital / water testing Labs.
- 24) Technician / Senior pathology Technician in pharmaceutical Laboratories / Public health Labs.

Important:

- 1) Graduate / Post - Graduate in Microbiology, Biochemistry, Biotechnology persons having with Ad. DMLT Degree will have good opportunities in above said wage employments.
- 2) Wage employment (No.1-24) are mentioned as most probable and most expected opportunities in our prospectus (Hence actual wage employment is subject to STATE LAW ONLY)

SELF-EMPLOYMENT:

- 1) To start own clinical Laboratory in urban / rural or areas where pathological testing facilities are not available, after completion of some years practice under the guidance of practicing M.D. Pathologist / approved pathological laboratory or department of reputed / Government / Civil hospital.
- 2) Preparation and sale of readymade reagent Kits/media.
- 3) Distributor for laboratory chemicals / Glass wares.
- 4) Distributor for laboratory equipment and spare parts.

(**Important:** Wage employment / self employment subject to the relevent provisions law already enforced in all states of India.)



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PROGRAMME STRUCTURE OF Ad.DMLT COURSE

- 1) **COURSE NAME -**
Advance Diploma in Med. Laboratory Technology (Ad.DMLT)
- 2) **DURATION** – 1^{1/2} year (3 semester) I & II Semester - Theory + Practicals, III Semester = hospital / Qualified Pathologist's laboratory Training + Project Report and Oral + Termwork.
- 3) **ELIGIBILITY** - B.Sc. (Chemistry/Microbiology/Zoology/Botany /Agriculture/ Life Sciences etc.) However B. Pharmacy, B.A.M.S. , B.U.M.S. , B.H.M.S., B.P.T. , M.B.B.S., B.V.S.C. , D.H.M.S., L.C.E.H. etc. are also eligible.
- 4) Original Documents + Xerox copies sets are required at the time of admission
- 5) Intake Capacity = 60 Seats Only.
- 6) Institute Code - 0733

RULES FOR DISCIPLINE

- 1) Students must have to attend the medical diagnosis camps, Blood group detection camp or Blood donation Camp; arranged by our Institute.
- 2) Students should be regular and punctual in attending classes, tutorials, practicals and also submit the necessary work time to time.
- 3) Sessional work, progressive skill test and/ or term work is compulsory to each and every student. Terms shall not be granted and a student shall not be certified for examination if his/her progress & attendance is poor or unsatisfied.
- 4) The student should attend at least 75% attendance to each and every subject of the course.
- 5) Smoking, alcoholic drinks, drugs, misbehaviour are strictly prohibited in the premises of the college, hostel pathology laboratory and Nature cure training Centre.
- 6) Every student after admission must collect his/her Identity Card which he/she must produce whenever may be demanded.
- 7) Students must not absent themselves in the classroom, practicals and internal unit test without the previous permission of the principal.
- 8) In case of absence due to illness a medical certificate must be submitted as soon as possible. It is necessary when he / she is appearing to final semester / yearly Examination.
- 9) Essential Note books, Journals / Practical Sheets and Practical materials must be brought by the student.



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- 10) Student will be liable for disciplinary action or expulsion from the college if any reference made by him/her in his / her application are found to be false & Fraudulent.
- 11) Political activities are strictly prohibited in the college, hostel or college campus.
- 12) Students are expected to read the notices put up on the notice board of the college. The college shall not accept any responsibility for loss due to the student failure to read the notice in time. (वेळोवेळी सुचना फलक विद्यार्थ्यांनी पहावा व सुचनांचे पालन करावे.)
- 13) No society, Union or Association of the students will be formed in the college and no outsider invited to address a meeting without principal's previous permission.
- 14) The management reserves to itself the right to modify, alter or revise any of the above rules and regulations and change frame or add new rules without prior notice which will be binding on the students.

DOCUMENTATION FOR ADMISSION				
Sr. no.		Particulars about required documents for Approval of admission process	Original Copy+ Xerox Copies	Total (Original + Xerox)
Open Category Admission				
1	*	B.Sc. Mark sheet (SY & TY B.Sc) (For Advance DMLT-PGDMLT)	Original+ 4 xerox	5
2	*	B.Sc. degree certificate (For Advance DMLT-PGDMLT)	Original+ 4 xerox	5
3	*	T.C/L.C (For all students)	Original+ 4 xerox	5
4	*	S.S.C. Mark sheets [For Advance DMLT-PGDMLT]	Original+ 4 xerox	4+1=5
5	*	Gap certificate (if educational gap)	Original+ 4 xerox	5
6	*	Photograph (coloured photo; 4.5 x 3.5 cm with	5	5



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		face of 2.5 cm; white background)		
7	*	Aadhar card (Xerox only)	4	4
8	*	Domicile/ Nationality Certificate	Original+ 4 xerox	5
Reserve Category Admission (SC/ST/NT/SBC/OBC)				
1	*	B.Sc. Mark sheet (SY & TY B.Sc) (For Advance DMLT-PGDMLT)	Original+ 5 xerox	6
2	*	B.Sc. degree certificate (For Advance DMLT-PGDMLT)	Original+ 5 xerox	6
3	*	T.C/L.C (For all students)	Original+ 5 xerox	6
4	*	S.S.C. Mark sheets [For Advance DMLT-PGDMLT]	Original+4 Xerox	4+1=5
5	*	Gap certificate (if educational gap)	Original+ 5 xerox	6
6	*	Photograph (coloured photo; 4.5 x 3.5 cm with face of 2.5 cm; white background)	6	6
7	*	Aadhar card (Xerox only)	4	4
8	*	Caste Certificate (Issued by competent authority of Govt. of Maharashtra)	Original+ 5 xerox	6
9	*	Caste validity certificate (Compulsory)	Original+ 5 xerox	6
10	*	Non-Creamy Layer Certificate (Recent Copy)	Original+ 5 xerox	6
11	*	Domicile/Nationality Certificate	Original+ 5 xerox	6



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अत्यंत महत्वाची सूचना (All Student) : वेळोवेळी असे निदर्शनास आले आहे की, सत्र (Semester) किंवा वार्षिक (Annual pattern) परिक्षेच्या वेळी विद्यार्थी/विद्यार्थिनी नेमके ओळखपत्र परिक्षागृहात न्यायला विसरतात. Ad. DMLT या कोर्सच्या परिक्षा ह्या गजानन टेक्नीकल इन्स्टीटयुट, कडा (Home center) येथे होत असतात. विद्यार्थ्यांनी कुठल्याही स्वरूपाचा निष्काळजीपणा केल्यास परिक्षागृहात परिक्षेस बसतांना विलंब होतो. त्यामुळे या माहितीपत्रकाद्वारे प्रवेशोच्छूक व प्रवेश घेतलेल्या सर्व विद्यार्थ्यांना स्पष्ट सूचना देण्यात येते की त्यांनी परिक्षा गृहात जातांना अगोदरच 1) Identity Card 2) Hall Ticket घेतले आहे किंवा नाही याची खात्री करून घ्यावी अन्यथा विद्यार्थ्यांचा संभाव्य नुकसानीस संस्था जबाबदार राहणार नाही किंवा संस्थेकडून कुठलीही शिफारस केली जाणार नाही.

Dress Code:

Every student must have to wear white shirt & black pant during theory classes. However every student must have to wear a white apron during doing practicals, attending blood group / blood donation camp and at the time of term-end semester examination. White Apron is also necessary when we shall celebrating the Independence day (15th Aug.) & Republic day (26th Jan.)

Employment After Training

It is not guaranteed. However, placement service cells help in securing employment to successful candidates. Today there are plenty of chances in Indian and abroad. Many foreign companies are giving advertisements in Times of India, Free Press General and other reputed News papers about "Wanted a Technician (MLT)" It is a duty of student that he/she must read the well reputed English - Marathi - Hindi News papers daily. Moreover we have opened a separate placement division in our Institute, We are in a position to help you. You are hereby advised to register your name with us.

Note - All the disputes relating to the Content of this prospectus are subject to the jurisdiction of Beed Court Only.

Where are the Job Opportunities?

The demand for qualified medical laboratory technologist is on the rise and such jobs come with well-paying salary packages. There is paucity in junior level medical technologists who support senior medical technologists in the diagnostic labs. and hospitals. The program aims to train human resources with requisite skills in the area of medical lab. technology.

- Hospitals
- Diagnostic and Medical Labs
- Medical Records and Transcription organizations
- Clinical and Medical Research organizations
- Pharma and Bio-Tech companies
- Medical equipment and device companies



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Age Limit -

There is no age limit. Both Sexes are eligible for Ad.DMLT Course

Other State Candidate's Admission -

According to the O.G. Rule 1 (MSBTE, Maharashtra State, Mumbai) - If the candidate passed the qualifying examination from any recognised examination authority out of Maharashtra State, out of India, shall obtain Eligibility Certificate through the institution (MSBTE), Otherwise their enrolment form shall not be accepted.

Revised Entry Qualification for Ad.DMLT Course

(महाराष्ट्र शासन, उच्च व तंत्र शिक्षण विभाग, शासन निर्णय क्र. पीटीआय २०२ के / (५६१/०१) / तां शि-२ मंत्रालय विस्तार भवन, मुंबई-३२ दि. २० मार्च २००२)

- 1) B.Sc. passed from any recognised University from state of Maharashtra or its equivalent with Chemistry (major / principal subject or 7 units) **OR**
- 2) B.Sc. passed from any recognised University from state of Maharashtra or its equivalent with Microbiology (Major / Principal subject or 7 units) **OR**
- 3) B.Sc. passed from any recognised University from state of Maharashtra or its equivalent with Life Science (Major / Principal subject or 7 units) **OR**
- 4) B.Sc. passed from any recognised University from state of Maharashtra or its equivalent with Zoology (Major / Principal subject or 7 units) **OR**
- 5) B.Sc. passed from any recognised University from state of Maharashtra or its equivalent with Botany (Major / Principal subject or 7 units) **OR**
- 6) B.Sc. Agriculture passed from any recognised University from state of Maharashtra or its equivalent **OR**
- 7) B.A.M.S. passed from any recognised University from State of Maharashtra or its equivalent **OR**
- 8) B.H.M.S. passed from any recognised University from State of Maharashtra or its equivalent **OR**
- 9) B.V.S.C. passed from any recognised University from State of Maharashtra or its equivalent **OR**
- 10) B.P.T. (Bachelor of physiotherapy) passed from any recognised University from state of Maharashtra or its equivalent **OR**
- 11) B.U.M.S. passed from any recognised University from State of Maharashtra or its equivalent.
- 12) M.B.B.S. passed from any recognised University from State of Maharashtra or its equivalent.



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ORDINANCE GENERAL (O.G.) = MSBTE (Mumbai)

(Admission to the Examination)

O.G. 4 - No candidate will be admitted to any semester / year Examination unless he keeps terms for that semester / year at an Institute recognised by the Director of Technical Education, Maharashtra State and affiliated to the Board of Technical examinations, Maharashtra state and unless he is certified by the principal/ Head of Institution, that he has –

- a) Put in satisfactory minimum attendance of 75% of total periods as prescribed in the syllabus for theory, practicals tutorials seperately in each and every subject of the semester / Year
- b) Satisfactorily completed the specified lab. practicals, term work, sessional etc. prescribed in the syllabus for the semester / year.
- c) Satisfactory progress in his studies and is of good conduct and character.
- d) not been debarred for any period from appearing for any examinations held by any Government, constituted Authority or statutory Examining Authority in India or by the MSBTE, Mumbai, shall be permitted to any of the semester / year Examination during that period.



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w.e.f. Academic Year 2009-10

'E' Scheme

MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION, MUMBAI.																
TEACHING AND EXAMINATION SCHEME																
COURSE NAME: ADVANCE DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY																
COURSE CODE: LX																
DURATION OF COURSE: THREE SEMESTERS/ ONE AND HALF YEAR										DURATION: 16 WEEKS						
SEMESTER : FIRST										WITH EFFECT FROM 2009-10						
PATTERN: FULL TIME – SEMESTER										SCHEME: E						
SR	SUBJECT TITLE	Abbreviation	SUB CODE	TEACHING SCHEME			EXAMINATION SCHEME									
				TH	TU	PR	PAPER HRS	TH (1)		PR (4)		OR (8)		TW (9)		SW (16009)
								Max	Min	Max	Min	Max	Min	Max	Min	
1	Human Anatomy and Physiology \$	HAB	13013	04	--	02	03	100	50	--	--	50#	25	50@	25	50
2	Hematology And Blood Banking	HBB	13023	03	--	02	03	100	50	--	--	50#	25	50@	25	
3	Bio chemistry (Medical)	BCH	13024	05	--	04	03	100	50	50#	25	--	--	50@	25	
4	Clinical Pathology	CLP	13025	04	--	04	03	100	50	50#	25	--	--	50@	25	
5	Seminar and Professional Practices	SPP	13026	--	--	02	--	--	--	--	--	50@	25	--	--	
TOTAL				16	--	14	--	400	--	150	--	100	--	200	--	50
STUDENT CONTACT HOURS PER WEEK (FORMAL TEACHING): 30 HRS.																
THEORY AND PRACTICAL PERIODS OF 60 MINUTES EACH																
@ Internal Assessment, # External Assessment, Ø Common to All Conventional Diploma, #* Online Examination, No Theory Examination.																
\$-COMMON WITH P.G. DIPLOMA IN DIETETICS																
TOTAL MARKS - 900																
Abbreviations: TH-Theory, TU-Tutorial, PR-Practical, OR-Oral, TW-Termwork, SW- Sessional Work																
➤ Conduct two class tests each of 25 marks for each theory subject. Sum of the total test marks of all subjects is to be converted out of 50 marks as sessional work (SW).																
➤ Progressive evaluation is to be done by subject teacher as per the prevailing curriculum implementation and assessment norms																
➤ Code number for TH, PR, OR and TW are to be given as suffix 1,4,8,9 respectively to the subject code.																
NOTE: No Readymade Printed Journal's are allowed. Journal's should be hand written by each student.																

MSBTE - Updated on 24/11/2009



गजानन टेक्नीकल इन्स्टीटयुट, कडा

w.e.f. Academic Year 2009-10

'E' Scheme

MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION, MUMBAI.																
TEACHING AND EXAMINATION SCHEME																
COURSE NAME: ADVANCE DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY																
COURSE CODE: LX																
DURATION OF COURSE: THREE SEMESTERS/ ONE AND HALF YEAR										WITH EFFECT FROM 2009-10						
SEMESTER : SECOND										DURATION: 16 WEEKS						
PATTERN: FULL TIME – SEMESTER										SCHEME: E						
SR	SUBJECT TITLE	Abbreviation	SUB CODE	TEACHING SCHEME			EXAMINATION SCHEME									
				TH	TU	PR	PAPER HRS	TH (1)		PR (4)		OR (8)		TW (9)		SW (16010)
								Max	Min	Max	Min	Max	Min	Max	Min	
1	Bacteriology, Immunology and Serology	BIS	13077	05	--	03	03	100	50	50#	25	--	--	50@	25	50
2	Histopathology and Cytopathology	HPC	13078	04	--	02	03	100	50	50#	25	--	--	50@	25	
3	Advanced Techniques and Future Trends in Laboratory Science	LSC	13079	03	--	02	03	100	50	--	--	50#	25	50@	25	
4	Laboratory Management and Ethics	LMG	13080	03	--	02	03	100	50	--	--	50#	25	50@	25	
5	Parasitology, Mycology and Virology	PMV	13081	04	--	02	03	100	50	50#	25	--	--	50@	25	
6	Group Discussion & Seminar	GDS	13082	--		02	--	--	--	--	--	--	--	50@	25	
TOTAL				19	--	13	--	500	--	150	--	100	--	300	--	50
STUDENT CONTACT HOURS PER WEEK (FORMAL TEACHING): 32 HRS.																
THEORY AND PRACTICAL PERIODS OF 60 MINUTES EACH																
@ Internal Assessment, # External Assessment, Ø Common to All Conventional Diploma, #* Online Examination, No Theory Examination.																
\$-COMMON WITH P.G. DIPLOMA IN DIETETICS																
TOTAL MARKS - 1100																
Abbreviations: TH-Theory, TU-Tutorial, PR-Practical, OR-Oral, TW-Termwork, SW- Sessional Work																
➤ Conduct two class tests each of 25 marks for each theory subject. Sum of the total test marks of all subjects is to be converted out of 50 marks as sessional work (SW).																



गजानन टेक्नीकल इन्स्टीटयुट, कडा

- Progressive evaluation is to be done by subject teacher as per the prevailing curriculum implementation and assessment norms
- Code number for TH, PR, OR and TW are to be given as suffix 1,4,8,9 respectively to the subject code.

NOTE: No Readymade Printed Journal's are allowed. Journal's should be hand written by each student.

MSBTE – Final Copy Dt. 15/06/2009

w.e.f. Academic Year 2009-10

'E' Scheme

MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION, MUMBAI.															
TEACHING AND EXAMINATION SCHEME															
COURSE NAME: ADVANCE DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY															
COURSE CODE: LX															
DURATION OF COURSE: THREE SEMESTERS/ ONE AND HALF YEAR										WITH EFFECT FROM 2010-11					
SEMESTER : THIRD										DURATION: 16 WEEKS					
PATTERN: FULL TIME – SEMESTER										SCHEME: E					
SR	SUBJECT TITLE	Abbreviation	SUB CODE	TEACHING SCHEME			EXAMINATION SCHEME								
				TH	TU	PR	PAPER HRS	TH (1)		PR (4)		OR (8)		TW (9)	
							Max	Min	Max	Min	Max	Min	Max	Min	
1	Project and Seminar on Hospital Training	PHT	13115	--	--	48*	--	--	--	--	100#	50	100@	50	--
TOTAL				--	--	48	--	--	--	--	100	--	100	--	--
STUDENT CONTACT HOURS PER WEEK (FORMAL TEACHING): *08 HRS/day for 16 weeks: 6 days a week, training.															
@ Internal Assessment, # External Assessment, Ø Common to All Conventional Diploma, #* Online Examination, No Theory Examination.															
TOTAL MARKS - 200															
Abbreviations: TH-Theory, TU-Tutorial, PR-Practical, OR-Oral, TW-Termwork, SW- Sessional Work															
➤ Conduct two class tests each of 25 marks for each theory subject. Sum of the total test marks of all subjects is to be converted out of 50 marks as sessional work (SW).															
➤ Progressive evaluation is to be done by subject teacher as per the prevailing curriculum implementation and assessment norms															
➤ Code number for TH, PR, OR and TW are to be given as suffix 1,4,8,9 respectively to the subject code.															

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