

M. Sc. MEDICAL LABORATORY TECHNOLOGY

PG & RESEARCH DEPARTMENT OF ADVANCED ZOOLOGY AND BIOTECHNOLOGY

**RESTRUCTURED CBCS CURRICULUM
EFFECTIVE FROM 2016-17**



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI 600 034

M. Sc., MEDICAL LAB TECHNOLOGY
P. G RESEARCH DEPARTMENT OF ADVANCED ZOOLOGY AND
BIOTECHNOLOGY
LOYOLA COLLEGE (AUTONOMOUS), CHENNAI 600 034

Minutes of the Board of Studies meeting

Dear chairperson and respected members of the council,

The meeting of the **Board of studies for M. Sc Medical Lab Technology** was held on **Friday, 05th February 2016, at 2.00 pm** in the Department of Advanced Zoology and Biotechnology. Besides the faculty, **Dr. R. Ravindran**, the University nominee, **Dr. S. Subramanian & Dr. R. Gayathri**, Subject Experts and **Dr. K. Selvakumar**, Alumnus and Industrial Representative were present and the board discussed and approved the revised syllabi to be offered in I, II, III and IV semesters.

The following modifications shall be made from 2016 batch onwards.

Hospital management to be shifted from III to II semester

Research methodology & bioethics shall be offered as ID (Inter-disciplinary) paper in semester III

New paper on Molecular biology and human genetics to be offered in III semester

Stem cell technology to be offered as elective paper in Semester III

Fluid analysis and human disorders paper shall be renamed as clinical pathology

Histopathology and modern diagnostics paper shall be renamed as Histopathology and cytology

Internships- One credit shall be allotted for summer training program, internship I and internship II each.

Internship II and rural medical camp shall be introduced in III semester.



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LOYOLA COLLEGE (AUTONOMOUS), CHENNAI.

M.Sc., MEDICAL LAB TECHNOLOGY

P.G. & RESEARCH DEPARTMENT OF ADVANCED ZOOLOGY & BIOTECHNOLOGY

The following members were present for the **Board of Studies meeting** held on **05th February 2016** at 2.00 pm in the Department of Advanced Zoology and Biotechnology, Loyola College, Chennai.

S. No	Name	Institution	Signature
1	Dr. R. Ravindran University Nominee	Associate Professor & Head Department of Physiology, Institute of Basic Medical Sciences, Taramani Campus, University of Madras, Chennai.	<i>R. Ravindran</i> 5/2/2016
2	Dr S. Subramanian Subject Experts	Principal Sree Balaji College of Physiotherapy, Velachery Main Road, Palikaranai, Chennai - 100.	<i>S. Subramanian</i> 05/02/16
3	Dr. R. Gayathri Subject Experts	Microbiologist and Molecular Biologist Lister Metropolis Laboratory Nungambakkam, Ch: 34	<i>R. Gayathri</i> 5/2/16
4	Dr. K. Selvakumar Industrial Representative	NABL Coordinator, Billroth Hospitals, Department of Laboratory Services, Chennai- 600 030.	<i>K. Selvakumar</i>
5	Dr J. M. V. Kalaiarasi HoD & Chairman	Associate Professor & Head, Dept. of Advanced Zoology and Biotechnology, Loyola College, Chennai-34.	<i>J. M. V. Kalaiarasi</i>
6	Sr. Adaikalam Mary Alumnus and Industrial Representative	Director, Diagnostic Laboratories, St. Isabel Hospital, Mylapore, Chennai.	

"Let Your Light Shine"



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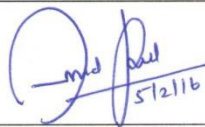
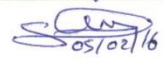
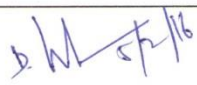
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7	Dr D. Robert Selvam Coordinator	Assistant Professor & Coordinator Medical Lab Technology	
8	Dr S. Anand Prasad Member	Medical Officer, Loyola Health Centre, Loyola College (Autonomous), Chennai.	 5/2/16
9	Dr M. Chandrasekar Member	Assistant Professor, Medical Lab Technology	 05/02/16
10	Dr D. Carol Member	Assistant Professor, Medical Lab Technology	 5/2/16
11	Dr. Tanya Pereira Member	Assistant Professor, Medical Lab Technology	 5/2/16
12	Mr. Prathpavarma Digala (14-PML-19) Student Representative	II M.Sc Medical Lab Technology. Dept. of Advanced Zoology and Biotechnology	

Proposal: Restructured curriculum for M.Sc. Medical Laboratory Technology.

M.Sc., MEDICAL LAB TECHNOLOGY
RESTRUCTURED CBCS CURRICULUM - TEMPLATE
EFFECTIVE FROM 2016-17

MC-Major Core, **ES**-Elective Subject, **ID**-Interdisciplinary, **SSP**-Self Study Paper, **LST**-Life Skills Training, **LEAP**-Loyola Extension Awareness Programme, **+h** – Outside Class Hours, **STP**- Summer Training Programme.

- In addition to Summer Training Programme (STP), **internship (120h outside class hours) in medical / paramedical industry during II and III semesters is mandatory.**

***Internship I** : During semester II (Nov to March= 120h) out side class hours

***Internship II** : During semester III (July to Oct= 120h + Rural Medical Camp) outside class hours

M.Sc., MEDICAL LAB TECHNOLOGY

RESTRUCTURED CBCS CURRICULUM - EFFECTIVE FROM 2016-17

SEMESTER-I

Code	Course	C	H	Credits (h per week)	CA (50)	SEM (50)	Aggregate (100)
MAJOR CORE (MC) PAPERS							
16PML1MC01	Fundamentals of Medical Laboratory Technology	3	5	20C (30h)	✓	✓	✓
16PML1MC02	Human Anatomy and Physiology	3	5		✓	✓	✓
16PML1MC03	Clinical Biochemistry	3	5		✓	✓	✓
16PML1MC04	Clinical Biochemistry lab course	4	5		✓	✓	✓
16PML1MC05	Haematology	3	5		✓	✓	✓
16PML1MC06	Haematology lab course	4	5		✓	✓	✓
TOTAL CONTACT HOURS AND CREDITS		20	30				
Loyola Extension Awareness Programme (LEAP)		Outside class hours		Contd in II sem			
TOTAL CONTACT HOURS AND CREDITS		20	30				

SEMESTER –II

Code	Course	C	H	Credits (h per week)	CA (50)	SEM (50)	Aggregate (100)
MAJOR CORE (MC) PAPERS							
16PML2MC01	Medical Microbiology	5	6	20C (24h)	✓	✓	✓
16PML2MC02	Microbiology lab course	5	6		✓	✓	✓
16PML2MC03	Immunology	5	6		✓	✓	✓
16PML2MC04	Serology and Blood Bank lab course	5	6		✓	✓	✓
ELECTIVE SUBJECT (ES) PAPER							
16PML2ES01	Hospital Management (OR)	3	4	3C (4h)	✓	✓	✓
16PML2ES02	Community Medicine and Epidemiology						
16PML2MC06	LIFE SKILL TRAINING (LST)	2	2+2	2C (2h+2h)			✓
LEAP (RURAL CAMP)		3		3C			✓
TOTAL CONTACT HOURS AND CREDITS			30+2	25+3			
16PML2TP01	INTERNSHIP I	1	+120h (outside class hours)				✓

SUMMER VACATION

16PML3TP01	SUMMER TRAINING PROGRAM	1C	Outside class hours
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SEMESTER –III

Code	Course	C	H	Credits (h per week)	CA (50)	SEM (50)	Aggregate (100)
MAJOR CORE (MC) PAPERS							
16PML3MC01	Molecular Biology and Human Genetics	4	5	15C (20h)	✓	✓	✓
16PML3MC02	Clinical Pathology	3	5		✓	✓	✓
16PML3MC03	Urine Analysis, Stool Examination Lab Course	4	5		✓	✓	✓
16PML3MC04	Seminal and Sputum Analysis Lab Course	4	5		✓	✓	✓
SUBJECT ELECTIVE (SE) PAPER							
16PML3ES01	Stem cell technology(OR)	3	4	3C (4h)	✓	✓	✓
16PML3ES02	Forensic Science and Toxicology						
INTERDISCIPLINARY (ID) PAPER (with Dept. of Biotechnology)							
16PML3ID01	Research Methodology and Bioethics	5	6	5C (6h)	✓	✓	✓
SSP	SELF STUDY PAPER (SSP)	2	Outside Class Hours	2C (2h+2h)			✓
TOTAL CONTACT HOURS AND CREDITS		23 +2	30	23C+2C 30h+2h			
16PML3TP02	INTERNSHIP II & RURAL MEDICAL CAMP	1	+120 h (outside class hours)				✓

SEMESTER –IV

Code	Course	C	H	Credits (h per week)	CA (50)	Sem (50)	Aggregate (100)
MAJOR CORE (MC) PAPERS							
16PML4MC01	Non Invasive Techniques	5	5	24C (30h)	✓	✓	✓
16PML4MC02	Separation Techniques and Pharmaceutical Chemistry	5	6		✓	✓	✓
16PML4MC03	Histopathology and Cytology	4	5		✓	✓	✓
16PML4PJ01	Project and Dissertation	10	14		✓	✓	✓
TOTAL CONTACT HOURS AND CREDITS		24	30				
Grand Total			120h + 2# (90C+6C+2C+2C)				