

BoS

13th

MINUTES OF THE THIRTEENTH BOARD OF STUDIES MEETING

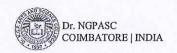
Faculty: Biosciences

Board: Clinical Laboratory Technology

The Meeting of Board of Studies (BoS) was held as given below:

Name of the Body	Board of Studies
Department	Clinical Laboratory Technology
Meeting No.	13
ate and Time 05.08.2022, 10.00 a.m.	
Venue	Board Room
Members Attended	The details are given in the ANNEXURE -I

Item	AGENDA		
01	Discussion on UG Curriculum for AY 2022-23 and onwards adopting R4 guidelines		
02	Discussion on UG syllabi for Part III - Core Courses for first semester 2022-23 Batch		
03	Discussion on syllabus for Part III - Inter Disciplinary Course (IDC) offered by Department of Information Technology		
04	Discussion on syllabus for Part III - Inter Disciplinary Course (IDC) offered to Department of Microbiology		
05	Discussion on Part I (Tamil/Hindi/French/Malayalam) offered by Language department for 2022-23 Batch		
06	Discussion on Part II (English) offered by English department for 2022-23 Batch		
07	Discussion on Part IV (AECC) Environmental Studies for 2022-23 Batch offered by Department of Microbiology		
08	Discussion on credits for Part V Extension Activity for 2022-23 Batch		
09	Discussion on PG Diploma program offered by Department of Clinical Laboratory Technology to other departments for 2022-23 Batch		
10	Discussion on Value Added Certificate Courses (VACC)		
11	Any other matter		





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Dr. N.G.P. - KalapattiRoad, Coimbatore - 641 048, Tamil Nadu, India
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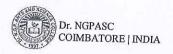
Faculty: Biosciences

Board: Clinical Laboratory Technology

The Chairman of BoS welcomed all the Panel members for the meeting. The items listed in the agenda were taken for discussion.

The following are the minutes of the meeting:

Item - 01	Discussion on UG Curriculum for AY 2022-23 and onwards adopting I guidelines
Discussion	
Resolution	The Board unanimously approved the curriculum.
Item - 02	Discussion on UG syllabi for Part III - Core Courses for first semester 2022 23 Batch
	223CL1A1CA: Human Anatomy and Physiology (New Course)
	Dr.Muthusami suggested to include the topics Neurotransmitters, Acetyl cholin and dopamine Functions, Spinal cord, myelinated and non-myelinated nerve in Unit I to identify the related metabolic disorders or diseases.
	Dr.Gayathri Devi suggested to include the Function of the Heart, Blood vessels, capillary system in Unit II
	Dr.Karthikeyan suggested to include function of lungs and function of lungs in Unit III and in Unit IV to gain basic knowledge in physiology.
discussion	Dr.Ragunathan suggested to include function of lymphatic system, thymus, spleen and lymph node and Principles of karyotyping in Unit V to know the basic lymphoid organs in immune system.
	223CL1A1CB: General Biochemistry (New Course) Dr.Karthikeyan recommended to incorporate Linear and cyclic structures of monosaccharides in Unit II and Alpha, beta and quartenary structure of proteins in Unit III.
	Mr.Vasanth Kumar suggested to include Glucose,Fructose,Galactose and Mannose, disaccharides — Lactose, Maltose, Sucrose and polysaccharidesStarch and Glycogen to gain knowledge basics of biomolecules in Unit II.
	Dr.Gayathri Devi and Dr.Muthusami suggested to include deficiency of fat and water soluble vitamins in Unit IV and Enzyme- classification, characteristic features and factors affecting its activity, Endocrine System, Hormones in unit V



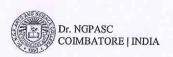
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THE RESIDEN	to impart basic knowledge of enzymes as its applications will be studied under Clinical Enzymology in 6 th Semester.
	223CL1A1CP: Biochemistry (Practical Course) Dr.Muthusami suggested to include Measurement of Normality, Molarity and Molality as problem to be solved in practicals to gain more practical knowledge in reagent preparation.
Resolution	The Board unanimously approved the syllabi for the above three courses
Item-03	Discussion on syllabus for Part III - Inter Disciplinary Course (IDC) offered to Department of Microbiology
Discussion	223CL1A1IA: Biochemistry (New Course) Mr. Vasanth Kumar and Dr. Gayathri Devi suggested to include Protein denaturation in Unit III, DNA denaturation, renaturation and Concepts of enzymes, classification, characteristic features and applications in Unit IV to impart basic knowledge on structural configuration.
	Dr.Karthikeyan Fat soluble - Vitamin A, D, E, and K and water soluble vitamins ,vitamin B complex ,vitamin C to impart detailed knowledge in vitamins and its importance.
Resolution	The Board unanimously approved the above syllabus
Item - 04	Discussion on syllabus for Part III - Inter Disciplinary Course (IDC) offered by Department of Information Technology
Discussion	224IT1A1IA - Basics of Information Technology The syllabus approved by the Board of Studies in Information Technology was placed for endorsement.
Resolution	The Board unanimously approved the above syllabus
Item - 05	Discussion on Part I (Tamil/Hindi/French/Malayalam) offered by Language department for 2022-23 Batch
Discussion	221TL1A1TA/ 221TL1A1HA /221TL1A1FA /221TL1A1MA: Part I:Tamil-I: Ikkala Illakiyam / Hindi-I: Modern Literature/French-I: Grammar, Translation and Civilization/ Malayalam – I: Modern Literature respectively The unified syllabus approved by the Board of Studies in Languages were placed for endorsement.
Resolution	The Board unanimously approved the syllabi.
Item -06	Discussion on Part II (English) offered by English department for 2022-23 Batch
Discussion	221EL1A1EA: Part II: Professional English I (New Course) The unified syllabus approved by the Board of Studies in English was placed for endorsement.
Resolution	The Board unanimously approved the syllabus



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Discussion	offered by Department of Microbiology 223MB1A1AA: Environmental Studies (New Course)	
	The unified syllabus approved by the Board of Studies in Microbiology was placed for endorsement.	
Resolution	The Board unanimously approved the syllabus	
Item-08	Discussion on credits for Part V Extension Activity for 2022-23 Batch	
Discussion	One credit to be awarded for participation in Extension activity like YRC/NCC/NSS/ RRC/Yoga/Sports/Clubs	
Resolution	The Board members approved one credit for Extension activity	
Item-09	Discussion on PG Diploma program offered by Department of Clinical Laboratory Technology to other departments for 2022-23 Batch	
Discussion	Board members suggested to retain the same for the program for 2022-23 Batch	
Resolution	The Board unanimously approved the syllabus	
Item-10	Discussion on Value Added Certificate Courses (VACC)	
Discussion	The course titled Basic Laboratory Tests to be offered by internal faculty for 2022-23 batch was discussed	
Resolution	The Board unanimously approved the syllabus	
town 11	Any other matter	
Discussion	The board members discussed and recommended a Panel of Examiners	
Resolution	The Board approved the Panel of Examiners	

The Chairman of Board of Studies (BoS) thanked all the members for their active participation and providing their valuable suggestions.

Date: 05.08.2022

Bos Charman/HoD Department of Clinical Laboratory Technology Dr. N. G. P. Arts and Science College Coimbatore - 641 048



BoS

13th

Syllabus Revision

Faculty: Biosciences

Board: Clinical Laboratory Technology

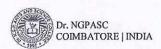
Semester: I

Course Code/ Name: 223CL1A1CA, HUMAN ANATOMY AND PHYSIOLOGY

Unit	Existing	Neurotransmitters ,Acetyl choline and Dopamine,	
I	General Anatomy: Introduction to anatomical terms and organization of the human body. Tissues—Definitions, Types, characteristics, classification, location, functions and formation. Blood—morphology, composition, functions. Peripheral Nervous system and Central Nervous system: Anatomy, Functions. Structure of neuron, neurotransmitters, nerve impulse. Brief account of resting membrane potential, action potential and conduction of nerve impulse, and exocrine & Endocrine- an overview and functions.		
II	Cardiovascular System: Structure of the Heart, Structure of arterial, venous system and Definitions of cardiac output, stroke volume, principles of measurements of cardiac output. Normal values of blood pressure, heart rate and their regulation in brief.	Function of the Heart, Blood vessels, capillary system	
III	Respiratory System & Gastroenterology system: Parts- Nasal cavity and Paranasal air sinuses, trachea, Structure of lungs, Diaphragm and Pleura. Principles of respiration, respiratory muscles, lung volumes and capacities, collection and composition of inspired alveolar and expired airs. Transport of oxygen and carbondioxide. Digestive System: Parts, Structure of Tongue, Salivary glands, stomach, Intestines, Liver, Pancreas. functions of G.I secretions, principles of secretion and movements of GIT.	Function of lungs.	
IV	Excretory system & Reproductive system: Parts, structure of Kidney, Ureters, Urinary Bladder and Urethra, Structure of Nephron, measurement and regulation of GFR, mechanism of urine formation. Clearance tests- urea & creatinine. Reproductive System: Parts of the system. Gross structure of both male and female reproductive organs.	Function of Nephron.	
V	Lymphatic System: Gross and microscopic structure of lymphatic tissue. Special Senses: Structure of Skin, Eye, Nose, Tongue (Auditory and Olfactory apparatus). Anatomical Techniques: Embalming of human cadaver, Museum Techniques.	Function of Lymphatic System, Thymus, Spleen and Lymph Node, Principles of Karyotyping.	

PERCENTAGE OF SYLLABUS REVISED: 21 % COURSE FOCUS ON: Skill Development, Employability

	Skill Development		Entrepreneurial Development
V	Employability		Innovation
	Intellectual Property Righ	it (IPR)	





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Syllabus Revision

Faculty: Biosciences

Semester: I

Board: Clinical Laboratory Technology

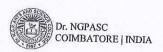
Course Code/ Name: 223CL1A1CB, GENERAL BIOCHEMISTRY

Unit	Existing	Changes
I	Cell structure and function: An overview of cells and their molecular composition: prokaryotic and eukaryotic cells and their comparison, Function of cells. Cel organelles and their functions: Cell membrane, Endoplasmic reticulum, Golgapparatus, lysosomes, peroxisomes and glyoxysomes. Mitochondria, Cytoskeleton and Nucleus.	- NIL
III	Carbohydrates and Lipids: Carbohydrates: Classification, Properties, biological significance and functions of monosaccharides, disaccharides and polysaccharidesStarch and Glycogen Lipids: Definition; classification, significance and functions of lipids-simple, compound and derived lipids. Steroids- functions.	monoscaaharides, Glucose Fructose, Galactose and Mannose , disaccharides - Lactose, Maltose, Sucrose and polysaccharides Starch and
	Amino acids and Proteins: Amino acids: Definitions, classification of essential and non-essential amino acids. Classification of proteins, Peptide linkage, Structure of proteins- primary, secondary and tertiary. Properties of peptides and proteins, Examples: albumin, globulins. Protein denaturation.	Glycogen. Alpha Helix, Beta-Pleated sheets, Quartenary structure.
	Nucleic acids and Vitamins: Structure of purines and pyrimidines; nucleotides and nucleosides, DNA. Double helical structure, A, B & Z forms of DNA; DNA denaturation and renaturation, functions. RNA: Types and functions. Vitamins: Definition, classification, Sources physiological functions of water and fat soluble vitamins. Minerals: Mineral requirement, essential macro and micro minerals:-Sources and functions	Deficiency of water and fat soluble vitamins.
	decount of these normonal disorders,	Enzymes:International classification of enzymes. Factors affecting enzyme activity. Endocrine System – Hormones.

NIAGE OF SYLLABUS REVISED: 24%

COURSE FOCUS ON: Skill Development and Employability

口	Skill Development		Entrepreneurial	Development	
Ø	Employability		Innovation		
	Intellectual Property Right	(IPR)			





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Board: Clinical Laboratory Technology

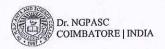
Semester: I

Course Code/ Name: 223CL1A1IA, IDC: BIOCHEMISTRY

Unit	Existing	Changes
I	Carbohydrate: Carbohydrate — classification, structure, properties & chemical reactions of monosaccharide — Glucose, Fructose, Galactose, Mannose, Arabinose. Disaccharides — Maltose, Lactose and Sucrose. Polysaccharides — Homo polysaccharides — Starch, Glycogen and Cellulose & Hetero polysaccharides — Hyaluronic acid, Heparin, Chondroitin sulphate. Biological importance of sugar derivates — glycosaminoglycan, proteoglycan & glycoprotein and Bacterial cell wall polysaccharides.	NIL
II	Lipids : Definition classification of lipids, physiochemical properties. Storage lipids – fatty acids – types. Structural lipids – phospholipids, glycolipids & sphingolipids. Structure & Biological role of cholesterol.	NIL
III	Aminoacids & Proteins: Classification of amino acids, general properties, Non protein amino acids. Peptide bond – structure & conformation, Protein classification, Physiochemical properties of proteins. Organization of protein Structure – Primary, Secondary Tertiary, Quaternary structure.	Protein denaturation.
IV	Nucleic acids: Structures of Purines, Pyrimidines, Nucleoside & Nucleotides. Properties of nucleic acids. DNA - Double helical structure — Isoform. RNA — Types structure & function.	DNA denaturation and renaturation. Enzymes - Concepts of enzymes, Classification, Characteristic features and Applications.
V	Micronutrients: Minerals in biological system & their importance — Iron, Calcium, Phosphorous, Iodine, Copper, Zinc. Vitamins — Definition, classification: Fat soluble and Water Soluble vitamins - Sources, functions and deficiencies. Hormones involved in regulatory metabolism: Insulin, Glucagon and thyroid.	Fat soluble - Vitamin A, D, E, and K and Water Soluble vitamins -Vitamin B Complex Vitamin C

PERCENTAGE OF SYLLABUS REVISED: 20% COURSE FOCUS ON: Skill Development & Employability

	Skill Development		Entrepreneurial Development
Ø	Employability		Innovation
	Intellectual Property Righ	at (IPR)	





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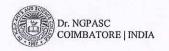
Faculty: Biosciences

Board: Clinical Laboratory Technology

Semester: I

Course Code/ Name: Biochemistry: 223CL1A1CP

1		Existing	Changes
	1.	Qualitative analysis of Monosaccharides – Pentose – Arabinose	1. Measurement of Normality, Molarity and Molality.
	2.	Qualitative analysis of Hexoses - Glucose, Fructose	Control of the World Treat, of the con-
	3.	Qualitative analysis of Disaccharides - Sucrose, Maltose and	
		Lactose	
	4.	Qualitative analysis of Polysaccharide – Starch	
	5.	Qualitative analysis of Histidine	The state of the s
	6.	Qualitative analysis of Tyrosine	the distribution and
	7.	Qualitative analysis of Tryptophan	
	8.	Qualitative analysis of Arginine	
	9.	Estimation of Acid Number	- A SC in the 1 County or region (
	10.	Estimation of Iodine Number	
	11.	Estimation of Saponification Number	
	12.	Protein estimation by Lowry's method	with a substitute of the state





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Syllabus Revision

Faculty: Biosciences

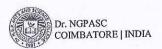
Board: Clinical Laboratory Technology

Semester: I

Course Code/ Name: 221TL1A1TA / PART - I - TAMIL - I: IKKALA ILAKKIYAM

Unit	Existing	Changes	
1. உயிர் பெற்ற தமிழர் பாட்டு - பாரதியார் 2. படி - பாரதிதாக் - தமிழ் ஒளி 3. போராட்ப் புறப்பட்டோம் - தமிழ் ஒளி 4. தமிழ்க் கொலை புரியாதீர் - புலவர் குழந்தை 5. திரைத்தமிழ்: அ)சும்மா கிடந்த நிலத்தை - எனத் தொடங்கும் பாடல் - பட்டுக்கோட்டை கல்யாண சுந்தரனார். ஆ) சமரசம் உலாவும் இடமுமே - எனத் தொடங்கும் பாடல் - மருதகாசி. இ) உன்னை அறிந்தால் - எனத் தொடங்கும் பாடல் -		இலக்கிய வரலாறு - மறுமலர்ச்சி கவிஞர்களின் தமிழ்ப்பணிகள் பாரததேசம் - பாரதியார் நமிழரின் பெருமை - நாமக்கல் கவிஞர் திரைத் தமிழ் : விஞ்ஞானத்த வளர்க்கப் போறண்டி – உடுமலை நாராயணகவி	
11	கடமையைச் செய் - மீரா ஆம்மாவின் பொய்கள் - ஞானக்கூற்தன் . செருப்புடன் ஒரு பேட்டி - மு.மேத்தா . சிஸ்கவால் குரங்கின் மரணம் - சிற்பி	இலக்கிய வரலாறு - புதுக்கவிதையின் தோற்றமும் வளர்ச்சியும் ஒப்பிலாத சமுதாயம் - அப்துல் ரகுமான் கன்னிமாடம் - மு.மேத்தா மலையாளக் காற்று - சிற்பி	
	5. கடல்கோள்-2004 - முத்தமிழ் விரும்பி 6. கரிக்கிறது தாய்ப்பால் - ஆரூர் தமிழ்நாடன் 7.ஐந்தாம் வகுப்பு 'அ' பிரிவு - நா. முத்துக்குமார் 8. ஹைகூ கவிதைகள் - 15 கவிதைகள்		
Ш		தொலைந்து போனேன் - தாமரை தற்காத்தல் - பொன்மணி வைரமுத்து புதையுண்ட வசழ்க்கை - சுகந்தி சுப்ரமணியன்	
IV	1. வேப்பமரம் - நாபிச்சமூர்த்தி 2. அகல்மை - புதுமைப்பித்தன் 3. ஒருபிடி சோறு - ஜெயகாந்தன் 4. காய்ச்சமரம் - கி.ராஜநாராயணன் 5. நிராசை - பாமா 6. குதிரை-மசால்-தாத்தா - கா.வேஹுகோபால்	இலக்கிய வரலாறு - சிறுகதையின் தோற்றமும் வளர்ச்சியும் கனகாம்பரம் - கு.ப.ராஜகோபாலன் ஆற்றங்கரைப் பிள்ளையார் - புதுமைப்பித்தன் பொம்மை - ஜெயகாந்தன் காட்டில் ஒரு மான் - அம்பை வேட்கை - சூர்யகாந்தன்	
V	அ. இலக்கியவரலாறு 1. மறுமலர்ச்சி கவிஞர்களின் தமிழ்ப்பணிகள் 2. புதுக்கவிதையின் தோற்றமும் வளர்ச்சியும் 3. சிறுகதையின் தோற்றமும் வளர்ச்சியும் ஆ. இலக்கணம்: 1. வல்லினம் மிகும், மிகா இடங்கள் (ஒற்றுப்பிழை நீக்கி எழுதுதல்) 2. ர.ற.ல, ழ, ள,ண, ந,ன வேறுபாடு (ஒலிப்பு நெறி , சொற்பொருள் வேறுபாடு அறிதல்) இ. படைப்பாக்கப் பயிற்சி 1. கவிதை, சிறுகதை எழுதுதல்	இலக்கிய வரலாற்றுப் பகுதி அந்தந்த அலகுகளுக்குத் தகுந்தாற் போல் மாற்றி அமைக்கப்பட்டுள்ளது.	

PERCENTAGE OF SYLLABUS REVISED: COURSE FOCUS ON:	44 %
Skill Development	Entrepreneurial Development
Employability	Innovation
Intellectual Property Right (IPR)	





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Syllabus Revision

Faculty: Biosciences

Board: Clinical Laboratory Technology

Semester: I

Course Code/ Name: 221TL1A1HA/ PART – I - HINDI – I : MODERN LITERATURE

Unit	Existing	Changes		
I	गद्य – नूतन गद्य संग्रह (जय प्रकाश) पाठ 1- रजिया पाठ 2- मक्रील पाठ 3- बहता पानी निर्मला पाठ 4- राष्ट्रपिता महात्मा गाँधी			
п	कहानी कुंज- डाँ वी.पी. 'अमिताभ'(पाठ 1-4)			
III	व्याकरण : शब्द विचार (संज्ञा, सर्वनाम, कारक, विशेषण)	व्याकरण : शब्द विचार (संज्ञा, सर्वनाम,विशेषण)		
IV	अनुच्छेद लेखन	The second of th		
v	अनुवाद अभ्यास-III (केवल अंग्रेजी से हिन्दी में) (पाठ 1 to 10)			

(पाठ 1 to 10)	
PERCENTAGE OF SYLLABUS REVISED:	25 %
COURSE FOCUS ON:	
Skill Development	Entrepreneurial Development
Employability	Innovation
Intellectual Property Right (IPR)	



BoS

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Syllabus Revision

Faculty: Biosciences

Board: Clinical Laboratory Technology

Semester: I

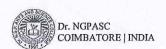
Course Code/ Name: 221TL1A1FA / PART - I - FRENCH - I: Grammar, Translation and

Unit		Existing			Ch	anges
1-43	Objectifs de Communication	Tâche	Activités de réception et de production orale			THE RESERVE
I	Saluer Enter en contact avec quelqu'un. Se presenter. S'excuser	En cours de cuisine, premiers contacts avec les members d'un grou	classe • Épeler son nom et son prénom. Computer jusqu'à 10.			-
	Objectifs de Communication	Tâche	Activités de réception et de production orale			
П	Demander de se presenter. Présenter quelqu'un.	Dans la classe de français, se presenter et remplir une fiche pour le professeur.	Comprendre les informations			
	Objectifs de Communication	Tâche	Activités de réception et de production orale			
ш	Exprimer ses gouts.	Dans un café, participer à une soirée de rencontres rapides et remplir de taches d'appréciation.	Dans une soirée de recontres rapid comprendre des personnes qui échangent sur elles et sur leurs goût Comprendre une personne qui parler des goûts de quelqu'un d'autre.			
	Objectifs de Communication	Tâche	Activités de réception et de production orale	Demander å quelqu'un de	Organiser un programme	Comprendre une personne demande un service à quelqu'un.
IV	Présenter quelqu'un	Dans un café, participer à une soirée de rencontres rapides et remplir de taches d'appréciation	Exprimer ses goûts. Comprendre une demande laissée sur un répondeur téléphonique.	faire quelque chose. Deniander poliment. Parler d'actions passes.	d'activités pour accucillir une personne importante.	Demander à quelqu'un de faire quelqu'en de faire quelque chose. Imaginer et raconter au passé à partir de situations dessinées.
	Autoévalua	tion du module I Page 40 – Prépara	tion au DELF A1 page 42	Tu veux bien?	Page 46	
v	Demander à quelqu'un de faire quelque chose. Demander-poliment. Parler d'actions-passes.	Organiser un programme d'activités pour accueilli une personne importante	r demande un service à	Make in	Own Sente	ences

PERCENTAGE (OF SYLLABUS REVISED:	25 %
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COURSE FOCUS ON:

	Skill Development		Entrepreneurial Development
$\overline{\mathbf{V}}$	Employability	\checkmark	Innovation
	Intellectual Property Right (IPR)		





BoS 13th

Syllabus Revision

Faculty:

Biosciences

Board: Clinical Laboratory Technology

Semester: I

Course Code/ Name: 221TL1A1MA / PART – I - MALAYALAM – I : MODERN

LITERATURE

Unit	Existing	Changes		
I	Novel : Alahayude penmakkal	Novel : Pathummayude Adu		
П	Novel: Alahayude penmakkal	Novel: Pathummayude Adu		
III	Short Story: Nalinakanthi			
IV	Short Story: Nalinakanthi	- The state of the		
V	Composition & Translation	Expansion of ideas, General Essay and Translation		

PERCENTAGE OF SYLLABUS REVISED: 50%

COURSE FOCUS ON:

Skill Development	Entrepreneurial Developmen	nt
 Employability	Innovation	
Intellectual Property Right (IPR)		



BoS

13th

Syllabus Revision

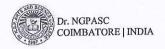
Faculty: Biosciences

Board: Clinical Laboratory Technology

Semester: I

Course Code/ Name: 221EL1A1EA- Core Course: Professional English I

P	ERCENTAGE OF SYLLABUS REV	ISED: 100%	
C	OURSE FOCUS ON:		
1	Skill Development	1	Entrepreneurial Development
1	Employability		Innovation
	Intellectual Property Ri	ghts (IPR)	





BoS

13th

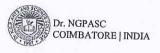
Syllabus Revision

Faculty: Biosciences Semester: I

Board: Clinical Laboratory Technology

Course Code/ Name: 223MB1A1AA - Environmental

-	Existing Existing	GI.
I	Introduction to Environmental studies& Ecosystems: Multidisciplinary nature of environmental studies; components of environment – atmosphere, hydrosphere, lithosphere and biosphere. Scope and importance; Concept of sustainability and sustainable development. E c o s y s t e m - Structure and function of ecosystem; Energy flow in an ecosystem: food chain, food web and ecological succession. Case studies of the following eeosystems: Forest ecosystem, Grassland ecosystem, Desert ecosystem, Aquatic ecosystems	
II	Natural Resources: Renewable and Non-renewable Resources: Land Resources and land use change; Land degradation, soil erosion and desertification. Deforestation: Causes and impacts due to mining, dam building on environment, forests, biodiversity and tribal populations. Water: Use and overexploitation of surface and ground water, floods, droughts, conflicts over water (international & inter-state). Heating of earth and circulation of air; air mass formation and precipitation. Energy resources: Renewable and non-renewable energy sources, use of alternate energy sources, growing energy needs, ease studies.	
III	Biodiversity and Conservation: Levels of biological diversity: genetic, species and ecosystem diversity; Biogeography zones of India; Biodiversity patterns and global biodiversity hot spots. India as a mega-biodiversity nation; Endangered and endemic species of India. Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts, biological invasions; Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity. Beosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and Informational value.	
	Environmental Pollution, Environmental Policies & Practices: Environmental pollution: types, causes, effects and controls; Air, water, soil, chemical and noise pollution. Nuclear hazards and human health risks. Solid waste management: Control measures of urban and industrial waste. Pollution case studies. Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture. Environment Laws: Environment Protection Act; Prevention & Control of Pollution Act – Air & Water. Wildlife Protection Act; Forest Conservation Act; International agreements; Montreal and Kyoto protocols and conservation on Biological Diversity (CBD). The Chemical Weapons Convention (CWC). Nature reserves, tribal population and rights, and human, wildlife conflicts in Indian context.	
V	Human Communities and the Environment& Field Work : Human population and growth: Impacts on environment, human health and welfares. Carbon—foot-print-Resettlement—and—rehabilitation—of—project—affected persons;—case—studies.—Disaster management:—floods,—earthquakes,—cyclones—and—landslides. Environmental movements: Chipko, Silent valley, Bishnies of Rajasthan. Environmental ethics: Role of Indian and other religions and cultures in environmental conservation. Environmental communication and public awareness.ease—studies (e.g., CNG—vehicles in Delhi). Visit to an area to document environmental assets; river/forest/flora/fauna, etc. Visit to a local-polluted-site Urban/Rural/Industrial/Agricultural. Study—of—common—plants, insects, birds—and—basic principles—of—identification. Study—of—simple-ecosystems—pond, river, Delhi-Ridge, etc.	Population explosion – Family Welfare Programmes Role of Informatio Technology i Environment and huma health. Role of th Colleges, Teachers an Students in village adoption towards clean, green and make in villages in various aspects.
	AGE OF SYLLABUS REVISED: 33 %	
SE FO	OCUS ON:	
/	Skill Development Entrepreneurial I	Development
1	Skill Development Entrepreneurial I Employability Innovation	Development





(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

Approved by Government of Tamil Nadu & Accredited by NAAC with 'A++' Grade (3rd Cycle-3.64 CGPA)

Dr. N.G.P.-Kalapatti Road, Coimbatore-641 048, Tamil Nadu, India.

Website: www.drngpasc.ac.in | Email: info@drngpasc.ac.in. | Phone: +91-422-2369100

APPROVAL

AY 2022-23

ATTENDANCE OF THE THIRTEENTH BOARD OF STUDIES MEETING

Faculty: Biosciences

Board: Clinical Lab Technology

S. No.	Name	Position	Signature
1	Dr.S.Kokila Assistant Professor & Head Department of Clinical Lab Technology Dr. N. G. P. Arts and Science College, Coimbatore	Chairman	J-15/8/22.
2	Dr.K.R.Muthusami Chief Biochemist, Deprtment of Biochemistry KMCH Institute of Laboratory Medicine KMCH, Coimbatore - 641 048.	Member (Subject Expert) VC Nominee	5/8/2022
3	Dr. T.M. Kartikeyan Professor, Department of Pathology KMCH Institute of Health Sciences & Research, Coimbatore - 641 014.	Member (Subject Expert)	Karrolg 5/8/2022
4	Dr. S.Gayathri Devi Professor, Department of Biochemistry Biotechnology & Bioinformatics Avinashilingam University Coimbatore - 641043	Member (Subject Expert)	Derkhon
5	Dr.R.Ragunathan Director, Centre for Bioscience and Nanoscience Research Coimbatore – 641021	Member (Industry Expert)	J. A. 218122.
6	M. Vasanth Kumar Assistant Professor, Department of Criminology, CMS College of Science and Commerce, Coimbatore.	Alumni	S S S S S S S S S S S S S S S S S S S
7	Dr.A. Adhiselvam Associate Professor & Head i/c Department of Information Technology Dr. N. G. P. Arts and Science College, Coimbatore	Co-opted Member	Ancisepr

4800

8	Ms.M. Vinitha III B.Sc. CLT Dr.N.G.P. Arts and science College	Student Representatives	ry.V-f
9	Dr.C.Hemalatha Assistant Professor Dept of CLT Dr.N.G.P.Arts and science College	Member	The St8/22
10	Dr.M.Thiruselvi Assistant Professor Dept of CLT Dr.N.G.P.Arts and science College	Member	Jane ir
11	Dr.S.Sasikala Assistant Professor Dept of CLT Dr.N.G.P.Arts and science College	Member	Apple of the state
12	Dr.K.Anbalagan Assistant Professor Dept of CLT Dr.N.G.P.Arts and science College	Member	-S. Duly of oresen

1.8/22.

BoS Chairman/HoD
Cepariment of Clinical Laboratory Technology
Dr. N. G. P. Arts and Science College
Colmbators — 641 048

