

INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS) (Deemed to be University Estd. u/s 3 of the UGC Act, 1956) PALLAVARAM, THALAMBUR, PERIYAPALAYAM-CHENNAI ACCREDITED BY NAAC WITH A++ GRADE INSTITUTION WITH UGC 12B STATUS

ICT ENABLED TOOLS FOR EFFECTIVE TEACHING LEARNING PROCESS



Registrar Vels Institute of Science, Technology & Advanced Studies (VISTAS) Pallavaram, Chennai - 600 117.

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1. INTRODUCTION

ICT enhances education in numerous ways: by boosting learner motivation and engagement, facilitating the acquisition of fundamental skills, and improving teacher training. Integrating ICT into education holds several merits. It not only revolutionizes traditional teaching methods but also demands that teachers be more creative in adapting and customizing their teaching materials and strategies. Adequate training is provided to teachers who successfully utilize this powerful tool for educational change and reform in instruction, learning, and assessment. Through ICT, learning can take place anytime and anywhere; for instance, online course materials are accessible 24/7. ICT helps transform teaching environments into learner-centered ones, offering purpose-designed applications that cater to diverse learning needs.

VISTAS collaborates with senior academicians, educationalists, and experts from EdTech industries to conduct faculty development and teacher education programs. These initiatives equip faculty members to integrate technology into the teaching-learning process, including outcome-based education and various pedagogical methods such as blended learning, flipped classrooms, collaborative learning, and problem-based learning. During the pandemic, online classes using tools like GSUITE, WebEx, and ZOOM, along with proctored online end-semester examinations, were conducted. Electronic resource packages like MOOCs, NPTEL, SPOKEN TUTORIAL, E-pathshala and the Digital Library are accessible. NPTEL courses can be accessed from the library's server, integrated into the Learning Management System (LMS).

VISTAS faculty members utilize various ICT tools such as desktops, laptops, projectors, digital cameras, printers, photocopiers, tablets, pen drives, iPads, scanners, microphones, interactive whiteboards, DVDs, CDs, and flash drives. They effectively employ these resources to demonstrate concepts and assess students' understanding through quizzes, seminars, and concept maps. Lecture capturing system by Upgrad is available for students to review and revise lectures at their convenience. Lab manuals are provided to students well in advance, and virtual labs are utilized for simulations. Online drawing tools like concept maps and mind maps facilitate student-centric activities. Academic books with academic plans, lesson plans, lab manuals, and question banks with solutions are made available at the beginning of each semester. Google Classroom is used to manage and post course-related information, including learning materials, quizzes, lab submissions, evaluations, and assignments. Regular online quizzes and polls gather student feedback.

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Vels Institute of Science, Technology & Advanced Studies (VISTAS) Pallavaram, Chennai - 600 117. ICT serves to expand access to education. Faculty members from all departments conduct seminars, webinars, workshops, and guest lectures on new developments in core subjects to enhance teaching and learning. Seminar halls are equipped with multimedia facilities, and the library offers a wide range of E-resources through the VISTAS consortium, accessible 24/7 via remote access. The library provides ample books, journals, e-journals, and e-books, with research journals available online through a proxy server on campus.

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2. LEARNING MANAGEMENT SYSTEM

VISTAS has its own Learning Management System (LMS) on Moodle, UpGrad and Google Classroom to host a repository of digital content developed by its faculty. Students have ondemand access to resources, enabling them to retrieve what they need when they need it. Online assessments enable students to receive automatic notifications if they're falling behind on submissions. The VISTAS LMS supports self-paced learning, offering high-quality technical video lectures that students can watch as many times as necessary until they fully grasp the concepts.

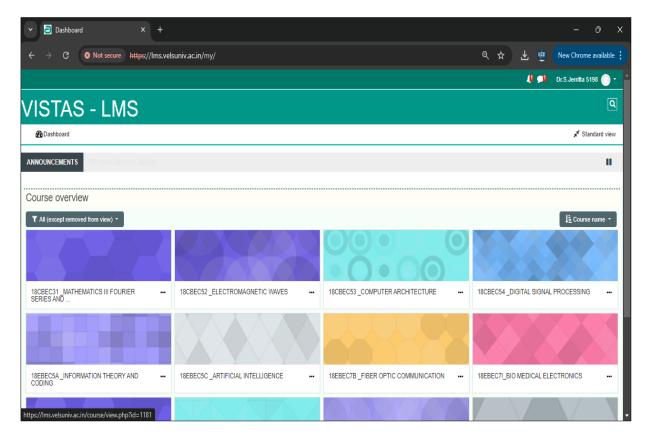


Figure 1: VISTAS LMS - Faculty Portal

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1 Unit 2 - Role of managers - Managerial Skills and Roles
1 Unit 3 Evolution of Management Thought

Figure 2: E-Content on Institutional LMS

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Figure 3: Quiz Conducted on Institutional LMS

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Figure 5: Upgrad Admin Portal

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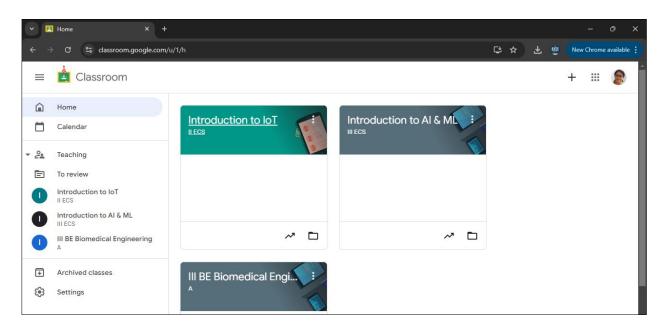


Figure 6: Google Classroom used by faculty

3. VELS KNOWLEDGE RESOURCE CENTER

The Vels Knowledge Resource Centre has been set up to provide students with the opportunity to gain additional knowledge through online courses offered by platforms such as EDX, TED, NPTEL, Khan Academy, MIT, and Coursera. Access to these resources is available inside and outside the campus.

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Figure 7: Vels Knowledge Resource Center

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1	ProQuest Academic Complete	E - Books	206531 E-Books
2	IEEE - ASPP Online	E - Journals	199 Journals
3	ASME - American Society of Mechanical Engineers	E - Journals	32 E-Journals
4	Bentham Science	E - Journals	58 E-Journals
5	EBSCOhost - Academic Search Premier	E - Journals	3100+ E-Journals
6	EBSCOhost - Business Source Elite	E - Journals	1000+ E-Journals
7	Proquest ABI / Inform Global	E - Journals	2500+ Online Publications
8	J-Gate Social Science & Humanities	E - Journals	3758 E-Journals
9	Inventi	E - Journals	58 E-Journals
10	DVL Online	E-Journals & E-Books	3193 e-Journals 1506 e-Books
11	Scopus	Abstract and Citation Database	-
12	Micromedex Clinical Knowledge Solutions	Online Database	Drug Information
13	SCC Online	Online Database	Supreme Court Case Finder
14	AIR Comprehensive	Online Database	Case Reports
15	E-ShodhSindhu	Consortia	-
16	Shodhganga	Electronic Theses & Dissertations	-
17	SWAYAM	Membership	-
18	DELNET	Membership	-
19	British Council	Membership	-
20	MALIBNET	Membership	-
21	INFED	Remote Access	-
22	VIDWAN	Expert Database and National Researcher Network	-
23	SheRNI	She Research Network in India	-
24	IRINS	Indian Research Information Network System	-
25	NDLI	Membership	-

Table 1: E-Resources at Vels Knowledge Resource Center

1/2

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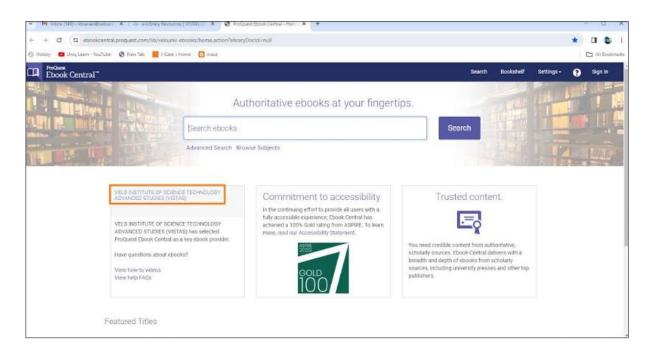


Figure 8: VISTAS- ProQuest

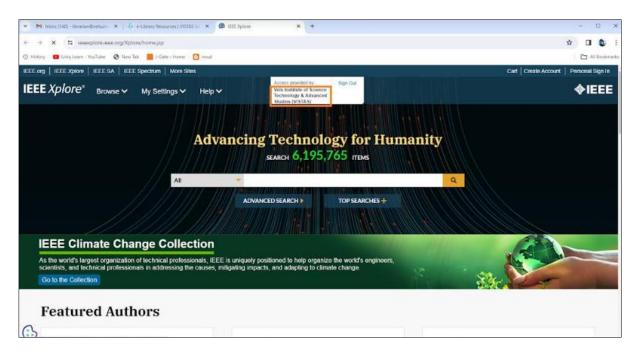


Figure 9: VISTAS - IEEE Xplore

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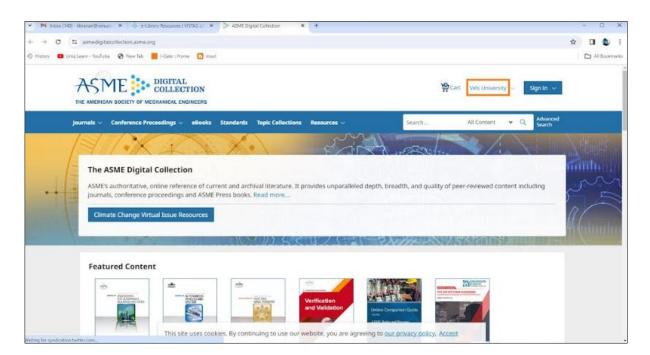


Figure 10: VISTAS-ASME

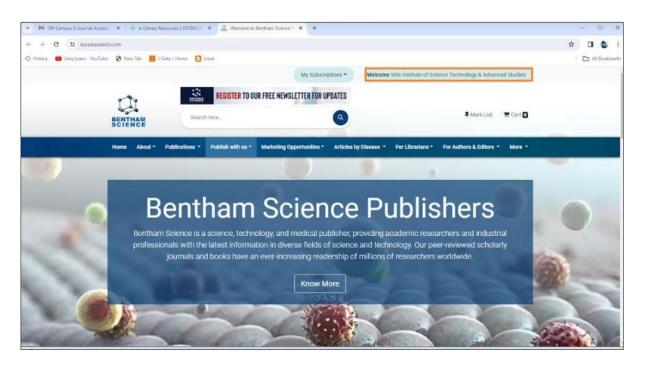


Figure 11: VISTAS- Bentham Science

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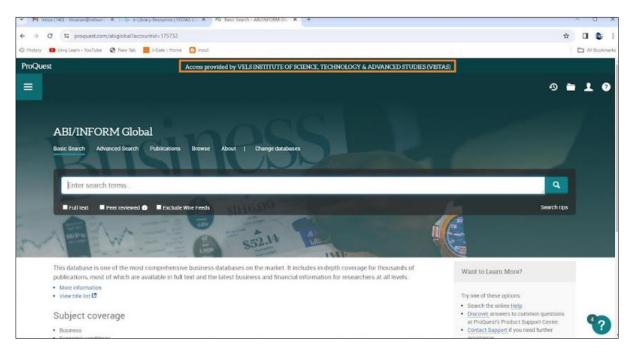


Figure 13: VISTAS Proquest ABI/Inform Global

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Figure 14: VISTAS - J-Gate

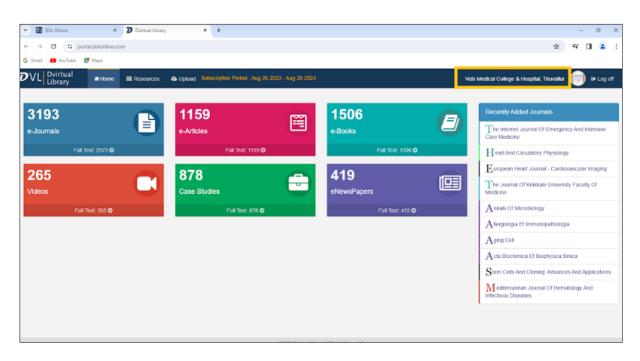


Figure 15: VMCH - DVL Digital Library

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Figure 16: VISTAS – SCOPUS

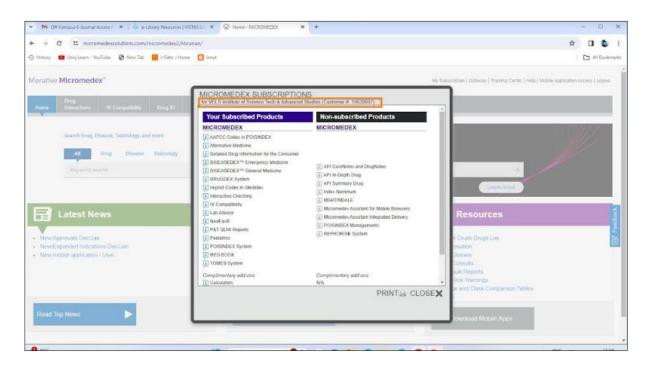


Figure 17: VISTAS - Micromedex Clinical Knowledge Solutions



Figure 18: VISTAS - AIR Comprehensive Database

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Figure 19: VISTAS E-ShodhSindhu



Figure 20: VISTAS Shodhganga Portal

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Figure 21: VISTAS SWAYAM/NPTEL

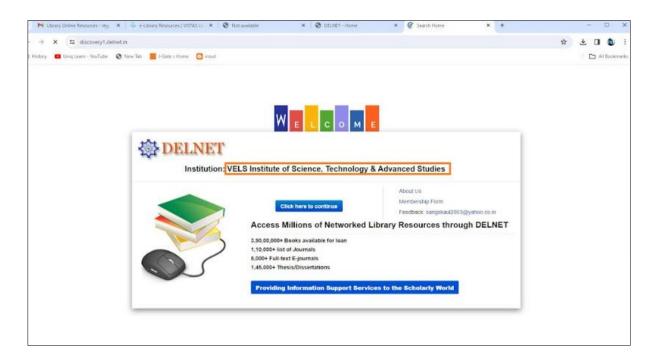


Figure 22: VISTAS - DELNET

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Figure 23: VISTAS - British Council Digital Library

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Figure 24: VISTAS – VIDWAN

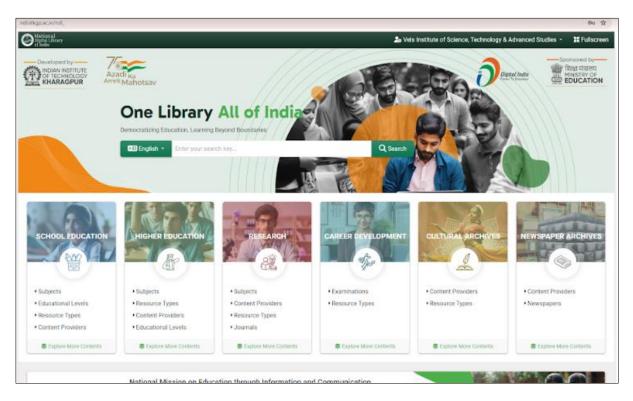


Figure 25: VISTAS - NDLI Portal

4. ONLINE TOOLS IN TEACHING AND LEARNING

a. Marrow App

VISTAS provides access to the Marrow App, an online learning platform primarily designed for medical students and professionals preparing for competitive exams such as the NEET PG, AIIMS, and other postgraduate medical entrance exams in India. It offers a comprehensive set of study materials, including video lectures, question banks, and detailed test series, all curated by leading medical educators.

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Q OBank	wise collection of 18,500+ MCQs. Read this document on how to make the best use of the QBank.	
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Figure 26: Screen shot of Marrow App

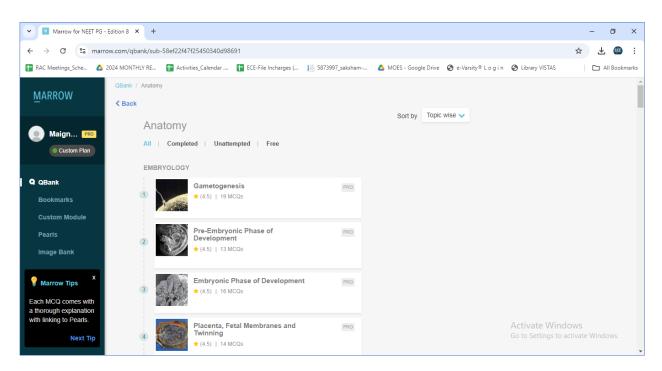


Figure 27: Screen shot of Topics covered in Marrow App

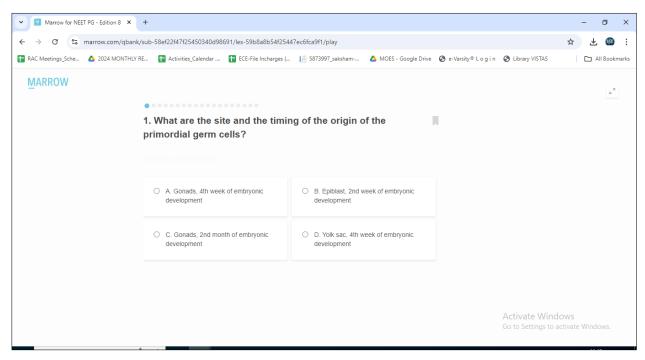


Figure 27: Screen shot of Questions and Answers in Marrow App

b. Virtual Laboratories

Virtual Laboratories at VISTAS during pandemic represent a pioneering approach to hands-on learning in the digital age, offering students immersive and interactive experiences that transcend the limitations of traditional laboratory settings. By incorporating Virtual and Online Laboratories into the curriculum, VISTAS empowers students to engage in meaningful scientific inquiry and experimentation, preparing them for success in their future careers and endeavours

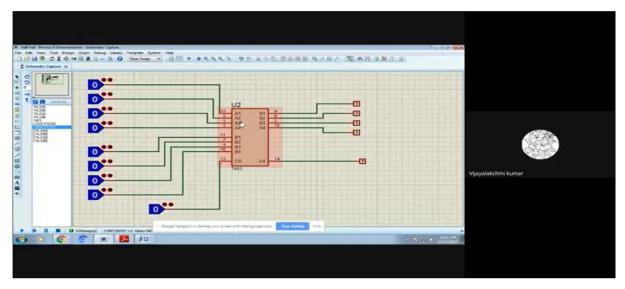


Figure 28: Online Lab on Digital Circuits

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Deep Learning vs. Machine Learning Choose the right approach based on you data and requirements.	ır						

Figure 30: MATLAB - Total Head Count License at VISTAS

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Figure 29: MATLAB Online

c. Other Tools

Faculty at VISTAS use various online tools such as Kahoot, Google Forms etc., for teaching learning activities. Some of the tools are illustrated below

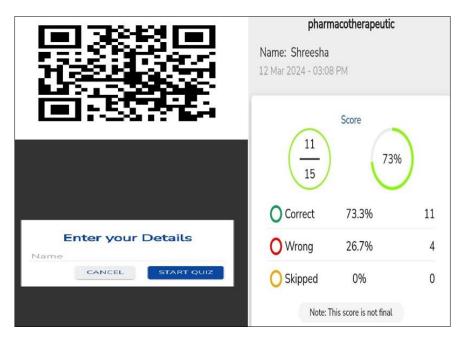


Figure 302: Screen shot of online quiz using QR Codes



Figure 33: Screen shot of Quiz using Kahoot in School of Pharmaceutical Sciences



Figure 34: Quiz using ICT in School of Pharmaceutical Sciences



Figure 315: Digital flashcards

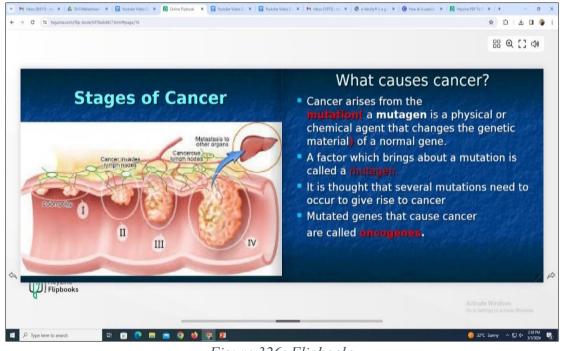


Figure 326: Flipbooks

Plagiarism checking tools

VISTAS provides access to online tools such as Turnitin, Drillbit, URKUND etc., to help faculty members, research scholars and students identify instances of plagiarism by comparing their work against a vast database of academic papers, online content, and other sources. These tools provide detailed reports, highlighting similarities and offering recommendations for proper citation.

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Figure 37: Turnitin

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Figure 39: URKUND

5. E-RESOURCES DEVELOPED AND USED BY FACULTY

The faculty members develop e-contents that are available in the Institutional Website and are readily available for students to learn at their own pace and time. A sample set of contents developed by School of Pharmaceutical Studies is listed below,

Name of the faculty	Department	Торіс
D.Shyam Sundar	Pharmacognosy	Introduction, History, Development and Scope of Pharmacognosy
		Introduction to Glycosides and its classification
		Practical Demonstration of Soxhlet Extraction(Hot continuous Extraction)
Dr.P.Balaji	Pharmacology	Drugs acting on CHF (Cardiac Glycosides)
		Haemodynamics and Electrophysiology
		Drugs acting on Haemopoietic System (Anticoagulants)
		Drugs acting on Haemopoietic System (Fibrinolytics)
		Drugs acting on Haemopoietic System (Antiplatelet drugs)
Dr.PG.Mahesh	Pharmaceutics	Aerosols
		Capsules
		Parentral Products
		Tablets
		Preformulation studies

Table 2:	E-Content	developed	by Faculty
10000 2.		acretopea	cy i activity

Mrs.M.Archana	Pharmaceutical Chemistry and Analysis	Impurity Profiling
		Understanding HPLC
		Handling, Storage, Precautions for Radip Pharmaceuticals
		Volumetric Analysis
		Limit Tests
		Gravimetry
		Errors
		Green Solvents In analytical Chemistry
		Use of AI and automation in Healthcare
		HPLC
		Impurity Profiling and degradation charachterization
		Chromatography
Mrs.Afroz Patan	Pharmaceutical Chemistry and Analysis	Cycloalkanes
		Comparative study of Synthetic resveratrol and resveratrol from grape skin by invitro and insilico studies
		Resolution Of Recemic Mixture
		Limit test video Lecture
		HPLC video ppt
		IUPAC Nomenclature
		Saytzeff's rule
Mrs.P.Indhumathy	Pharmaceutical Chemistry and Analysis	Nucleophilic substitution reaction
		Nucleophilic addition reaction
		Isomerism
		Elimination reaction
		Carboxylic acids
		Limit test video Lecture
		Antidiabetic agents
Dr.R.Gandhimathi	Pharmaceutical Chemistry and Analysis	H1 antagonist
		sulphonamides
		oral hypoglycemic agents
		antibiotics
Mrs.Monisha. J	Pharmaceutics	Introduction to Microbiology
		mixing of drugs

		drying of drugs
		Bucaal drug delivery system
		gastro retentive drug delivery system
		Drug and cosmetic act 1940
		drug approval process in India
		Historical overview of Drug regulatory authority
		Regulatory authority in India
		Study of different schedule of Drugs
		Preformulation studies
		opthalmic formulations
Dr.M.Sumithra	Pharmaceutical Chemistry and Analysis	Principle involved in UV visible spectroscopy
		Terms related to UV Visble spetcrophotometry
		Flame Photometry
		Adsorbent and App of Adsorbent in chromatography
		Flame Photometer
		CHROMATOGRAPHY CONCEPT
		Column Chromatography video ppt
		E content development
Mr. T. Velmurugan	Pharmaceutics	Multiple Emulsion
		Microemulsion
		Stability of Emulsion
		Course Dispersion
Dr.D.Akiladevi	Pharmaceutics	Preparation of Terpine Hydrate Linctus
		Role of community Pharmacist in post covid 19 sequele
		Capsules - Part I
		Capsules - Part II
		Preparation of liniment
		Herbal Cosmetics - 1
Dr.K.Manjuladevi	Pharmacology	Pharmacology of Adrenal Hormones
		Screening methods for antiparkinsonism agents
		Organophosphorus poisoning and it's treatment
		Screening methods of analgesic activity
		Oral hypoglycemic agents
M. Immanuel Jebastine	Pharmacy Practice	Drug Development
Dr M K Sundar Sri	Pharmacy Practice	Clinical Project
Dr M	Pharmacy Practice	AdHOC data source for
Dheenadhayalan		Pharmacoepidemiological Studies
Dr.P.Maheshwari	Pharmacy Practice	Gout
		Tuberculosis

		Drug information services
		Meningitis
		Acute renal failure
D Dhangari	Dhammaaautiaa	
B. Bhargavi	Pharmaceutics	Storage Conditions and Stability of Official Vaccines
Dr.S.Umadevi	Pharmaceutics	Total Quality Management
		Quality by Design
		ICH Guidlines
		Size Reduction Part 2
		Evaporation
Dr. A. Vijayalakshmi	Pharmacognosy	Hot continuous extraction
		Macroscopy and Microscopy of Clove Bud
		Macroscopy and Microscopy of Ephedra stem
		Galenicals
		Enzymes
		Length and Width of Phloem fibers
		Macroscopy and Microscopy of Fennel fruit
		Macroscopy and Microscopy of Senna Leaf
		Plant Fibers
		Extraction of volatile oil using Clevenger
		apparatu
		Alkaloid containing crude drugs
		Volatile oil containing crude drugs
		Soxhlet Extraction
Dr.S.Mangayarkaras i	Computer Science	Computer Communications and Networks
		Computer Communications and Networks
Ms.R.Padma	Computer Science	Computer Communications and Networks
		Computer Communications and Networks
Dr.G. Thailambal	Computer Science	Operating System
		Operating System
Dr.A.Akila	Computer Science	Data Mining & Data Warehousing - Block 5 Clustering

		Data Mining & Data Warehousing- Block 4 Classification and Prediction
		Machine Learning using Orange
Dr S Ajith Arul Daniel	Mechanical Engineering	Continuity Equation for Compresible flow
		Velocity Equation
		Eulers equation
		Projection of Planes
		Projection of Planes cylinder
		Projection of Solids String Problem
		Projection of Solids Pentagon Problem
		Projection of Points
		Projection of Soids Generator Problems
		Overview of Engineering Graphics
Dr. R. Muraliraja	Mechanical Engineering	Mendeley Software
Dr.S.VarunRaj	Mechanical Engineering	Basic of Class
		Calculation of CGPA & GPA
		How to Check Old Result?
		Answering the Problem by Scan the Question
		Guide to Engineering Counseling
		Online TNEA Guideline
		Vels University Admission
		Scope in Mechanical Engineering
		Scope in ECE
		Scope in CSE
		Accrediation Details
		Education Loans Guideline
		History of Education Minister
		Who is Entrepreneur?
		Interview Tips
		Easy to Study Tips
		How to Measure Land
Dr.S.Chandrachud	Economics	Theory of Firm
		Pricing Under Product Life Cycle
		Monopoly Market
		Perfect Competition
		Economies OF Scale
		Definition and Nature
		Difference between M E and T E
		Scope of Managerial Economics
		Fundamental of M E

Demand analysis introduction
Law of demand
Exceptions to law of demand
Price Elasticity of demand
-
Income, cross and Advertisment Elasticity
Demand forecasting
Demand forecasting and casestudy
Methods of demand forecasting
 Cost output relation in shortrun
Cost output relation in long run PT
Factors of production
Law of variable proportion
Discriminating monopoly and Kinked demand curve
Break even Analysis
Pricing methods
Factor pricing
Law of variable proportion
Demand Analysis - Introduction
Types of Elasticity of demand
Revealed preference therory - Introduction
Economic Approaches to utility
Nature of Managerial Economics
Risk and Uncertainty
Cardinal and ordinal utility
Demand analysis
Exception to law of demand
Scope of managerial Economics
General Foundation of Managerial Economics
Theory of consumer behaviou
Fundamental concept of managerial economics
Definition and Differnce
Break Even Point
Theory of firm
Breakeven Analysis
Bouma;'s sales maximisation model
Profit maximisation model
Profit maximisation
Monopoly comepetion
Profit position - perfect market
Product Life cylce
Theory of firm

Economies of Scale
Market Structure
Classification of market
 Pricing under Product life cycle
Simple monooply
Pricing strategies
Cost output relationship in long run
Pricing Methods
Price and output determination
Law of variable proportion
Product Life cylce Pricing
Market Structure
Discrimination monoply and kinked demand
 curve
Input ouput decisions
Impact of Economies of Scale
Monopoly comepetion
Factors of Production
Cost output relationship in long run
Perfect Competition
Cost output relationship in short run
Methods of least squares
Features of perfect competition and shutdown
point
Methods of demand forecasting
Wassily leontiff input output model
Types of Market
Production Analysis
Income, Cross and Advertisment Elasticity
Cost output relationship
Role of Monetary policy
Short run cost output relationship
Inflation and its impact
Economies of Scale
Types of Elasticity of demand
Law of variable proportion
Law of demand
Price Elasicity
Demand Analysis
Leontief input output model
Fundamental concepts of ME Case study
Consumer healthcare

Production function
Scope of ME
Difference between M E and T E
Methods of least squares
Demand forecasting
 Okun's Law
 Unemployment and its impact
 Types of Income Elasticity
Fiscal policy
 Multiplier effect
 Price Elasticity of demand
 Health Insurance
Demand for healthcare services
Law of Demand
Definition Nature and Scope of ME
Demand Analysis
Managerial Economics
Risk and Uncertainty
Measurement of National Income
Nature of Managerial Economics
Case study
Fundamental of Managerial Economics
Spatial distribution of health care
Role of Managerial Economics
Scope of Managerial Economics
Elements of National income accounting
Fundamental Concepts of Managerial
 Economics
Definition of National income
Definition and features of Managerial
Economics spatial II
Spatial distribution of health care
Components of Health
Introduction Managerial Economics
Determinants of Health
Circular flow of income
Lifestyle status
Disability Indicators
Scope and importance of macro economics
 Morbidity indicators
Mortality indicators

		Macroeconomic aggregates
		Performance of an Economy
		Macroeconomic aggregates
		Principles and Objectives of Health Economics
		Health Economics
		Postive and negative Externalities
		Role of Government in macroeconomics
		Role of Market in Macroeconomics
		Micro Vs Macro
		Micro and Macro economics introduction
		Economic Stability
		Economic Growth
		Productive efficiency and Economic efficiency
		Production possibility frontier
Dr. V. Bala Ruby	Economics	Price Elasticity of demand
		Cost
		Production Function
		Law of variable proportions
		Law of returns to scale
		Economies and Diseconomies of scale
		Labour
		Sweezy's Oligopoly competition
		Monopoly
		Monopolistic Competition
		Perfect Competition
		Types and Causes of Inflation
		Types of Banks
		Money Supply
		Monetary Policy
		Stock Market
		Health Insurance
		Types of Investment
		Insurance
		Inflationary Gap, Stagflation
		Measures of Business Cycle
		Types of Trade Cycle
		Credit Creation
		Qualities of Money and Gresham's Law
		Money Multiplier
		Banking
		Online Trading System
		Role of Money
		Note of Money

		Classical Vs Cambridge Version
		Fisher's Quantity Theory
		Introduction of Money
Dr.S.Preetha	MBA	Business Ethics
		Resistance to change &Sress Management
		Organisational Change
		Organisational Development
		Management by Objectives
		Administrative Management - Evolution of
		Management
		Scientific Management - Evolution of
		Management
		Management Thinkers, Method of Case Analysis
		E Mail Writing & JAM
		Revising Messages & Proof Reading
		Writing Business Messages
		Pre writing for Business Writing
		Business Communication Activity - Worksheet
		Organising Presentation
		Effective Presentation Skills & Self Introduction by students
		JAM - Self Introduction by Students
		Communicating in teams
Dr. G. Rajini	MBA	Skills needed for different levels of managers, Roles of Bottom level managers and middle level managers
		Roles of Top-level managers
		Plans and Types of Plans
		Classification of Plans
		Importance and benefits of planning and Description of Objectives /Goals
		SHRM Frame work and Mind Mapping
		Policies and procedures
		Case Study
		Centralisation and Matrix approach of training
		Indian Case examples
		case study
		Emotional Intelligence
		Sigmund Frued theories as in other sources
		Personality Traits and types
		Quality of work life Work Environment and Work design

		Performance Management outcomes, Rewards
		and Recognition
		Employee Attrition and Retention
		Counselling and Guidance ,Employee Assistance
		Program
		Counselling and employee assistance program
		Cases on Cargill & Cartoon Network Strateies
		Group behaviour, Norms, Why people join groups? Satisfaction, Motivation, Five stage model of Group development
		Scientific management and Human relation schools
		Instincts and drives for Performance based on Compensation and Appraisal
		Hypnosis and Hypnotherapy and Case discussion
		International HRM
		Talent Management
		Wage & Salary
Dr A Selvaraj	Mathematics	Businesse Mathematics
		Businesse Mathematics
		Businesse Mathematics
Mrs. T. Iswarya	Mathematics	Graphical Method Part -1
		Lapalce with Integration
		Laplace 8M
		Laplace 2M
		Laplace 8M sin^2t
		Laplace with Inverse
		Machine Problem
		Machines
		Assignment Problem 15M
		Assignment problem
		Dominance and Graphical
		Dominance Property
		Game with Saddle Point
		Game without Saddle Point
		Graphical Method
		LCM
		MODI Method
		NWCR
		VAM
		Laurent's Series Expansion
		Dominance and Graphical

		ODE 2M
		Taylor's Series
Dr.K.Srinivasan	Mathematics	Business Statistics
		Numerical method notes
		Samlping notes
		correlation and regression notes
		Transportation Problem NWCR
		Transportation Problem LCM
		Transportation Problem VAM
G Charles Rabinson	Mathematics	Business Statistics
		Fourier Transforms
		Fourier Transforms
		Statistics and Numerical Methods
		Complex Number
		Operations Research
Dr S.Santhi	Mathematics	Binomial Expansions
		Jacobian
		Maxima and Minima
		Lagranges Multipliers
Dr.M.Raji	Mathematics	Business Statistics
Dr.N.Shanmugasund aram	EEE	Power system operation and control
		Power system operation and control
Dr.N.Janaki	EEE	MEMS OF BIOMEDICAL APPLICATIONS
Dr.T.R.Premila	EEE	INTRODUCTION TO CONTROL SYSTEM
Dr T Jaya	ECE	Optical Communication - Ray Theory Transmission
		Wireless Communication - Cellular Architecture
		Ray Theory Transmission - Properties - Reflection, Refraction, Refractive Index (Part 1)
		Ray Theory Transmission - Numerical Aperture (NA)

		Ray Theory Transmission - Properties - Total Internal Reflection TIR, Acceptance Angle (Part 3)
		Ray Theory Transmission - Properties - Snell's Law, Critical Angle (Part 2)
Dr.C.Sharanya	ECE	Quine McCluskey Method of Simplification
		Simplification using Boolean Laws
		K map with Don't Care Condition
		K - Map Problems
		Full Subtractor
		Half Subtractor
		Half Adder
		Full adder
		Plotting and Grouping in K map
		Introduction to logic gates
		Introduction to K-Map
Ms.Thamizhvani TR	Biomedical Engineering	Biomedical Instrumentation
Dr.G.N.Nirmala	Bioengineering	Selection
Dr.S.S.Meenambiga	Bioengineering	Solid state fermentation
		Substrate utilization and product formation in bioreactor
Ms.K.Rajakumari	Bioengineering	Immunology-Immunofluroscence
		Immunology-Enzyme Linked Immunosorbent Assay
		Immunology-Western Blotting-Protein Hybridization

In addition, faculty also develop contents for other agencies. E Content for the course, Knowledge and Curriculum, that includes twenty five modules in four Quadrants (E-text, Etutorial, Self-Assessment and Learn more) developed by Dr. Girija from the School of Education, is published in Vidya Mitra – A National Mission on Education (ICT Enabled) MHRD (<u>https://vidyamitra.inflibnet.ac.in/</u>).

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Figure 34: Knowledge and Curriculum developed by VISTAS in Vidya-Mitra Portal

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Figure 35: Modules of the Course on Knowledge on Curriculum

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Faculty members at VISTAS regularly utilize digital materials and resources, integrating them into their teaching to enrich the learning experience.



Figure 36: Blended Learning (VOC Block, VISTAS)



Figure 37: Seminars (VMCH)

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Figure 38: Flipped Classrooms (VMCH)

A sample subset of e-resources used by faculty, as listed in the course plan is given below for reference.

Name of Faculty	Name of the Course	ICT Tools used for Teaching and Learning
Dr.V. Jayashree	Human Anatomy and	Power Points, Audio Visual Clips
	Physiology	(NPTEL/Youtube Videos etc.,), Google
		Classroom, Website Links, Online Quiz,
		Charts & Innovative Teaching Learning -
		Mingle, Share, Pair
Dr. Jayalakshmi. S	Fundamentals of	Power Points, Audio Visual Clips
	Pharmaceutical Chemistry	(NPTEL/Youtube Videos etc.,), Website Links
Dr. S. Umadevi	Quality Assurance	Power Points, Audio Visual Clips
		(NPTEL/Youtube Videos etc.,), Online Quiz
Dr. S. Umadevi	Pharmaceutical Engineering	Power Points, Audio Visual Clips
		(NPTEL/Youtube Videos etc.,), Flip Books,
		Website Links
Dr.Varadharaju.B	Physiology	Power Points, Audio Visual Clips
		(NPTEL/Youtube Videos etc.,), Google
		Classroom
Ms. Sowmiya S M	Design and Analysis of	Audio Visual Clips (NPTEL/YouTube Videos
	Algorithms	etc.,), Working Model
Thamizhvani TR	Virtual Instrumentation In	Power Points, Google Classroom
	Medicine	
		Serm

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Thamizhvani TR	Basics of Python and MATLAB Software	Power Points, Google Classroom, Online Quiz
Ms. V. Akshaya	Food Science	Power Points, Audio Visual Clips (NPTEL/Youtube Videos etc.,), Online Quiz
Ms. V. Akshaya	Nutrition	Power Points, Audio Visual Clips (NPTEL/Youtube Videos etc.,), Website Links

6. ONLINE VIDEO CONFERENCING PLATFORMS

Ever since the pandemic situation created by spread of Covid-19 virus, VISTAS has embraced with open arms the concept of online platform-based learning through online platforms like Google meet, Zoom, and WebEx.

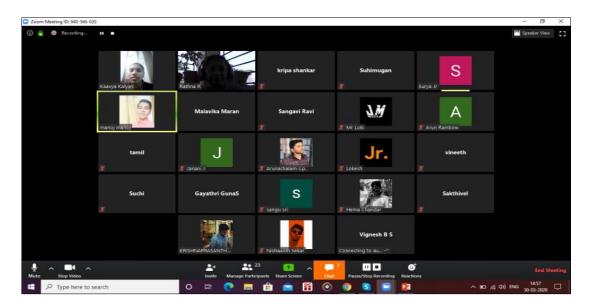


Figure 39: Classes on Google Meet

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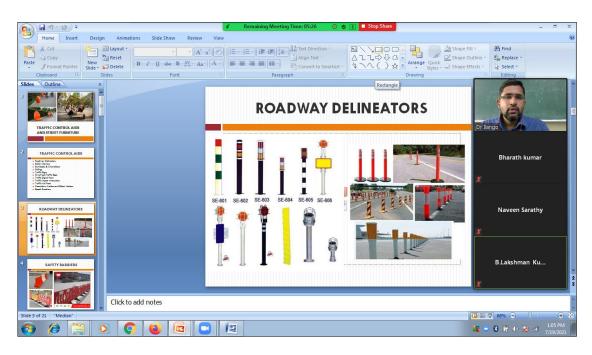


Figure 40: Online Classes on Zoom Platform by Dr.T.Ilango,Professor/School of Engineering and Technology

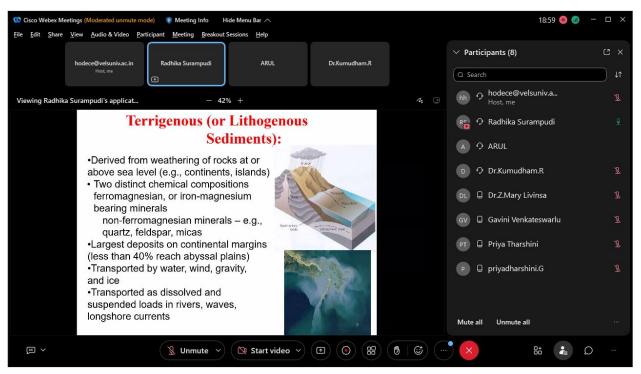


Figure 41: Online Session on WebEx Platform Dr.S.Jeritta, Professor/School of Engineering and Technology

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Troubleshooting Reports	393 ↑ 4.24% 21.3K ↓ 2.35% 195 ↑ 2.09% 160 ↓ 8.57% 174 ↓ 3.87% 1512 average meetings per host 54.27 average minutes per meeting 48.62% meetings evalue video 40.71% meetings evalue sharing 44.27% meetings evalue sharing
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Figure 42: WebEx Statistics

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Figure 43: WebEx Admin Portal indicating Users

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7. ICT FACILITIES

The teaching-learning process is enhanced and simplified through the use of ICT (information and communication technology) enabled tools by all the faculty members. All the classrooms are Wi-Fi/LAN enabled and equipped with smart boards, LCD Projectors etc that strengthens the teaching and learning. Few Classrooms are also furnished with Lecture Capturing Systems that aids in recording video lectures.

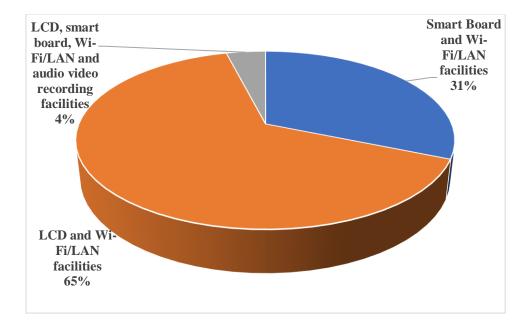


Figure 44: Statistics of Classrooms



Figure 45: Classrooms with ICT facilities at VMCH

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Figure 46: Classrooms with ICT facilities at VMCH (AV Room)



Figure 47: Classrooms with ICT facilities (Dr.M.G.R Block ENB206)

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Figure 48: Classrooms with ICT facilities – VISTAS Library

The Audio-Visual Center and Lecture Capturing Device facilities aid in the development of econtent.



Figure 49: Audio Visual Center - VISTAS

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Figure 50: Lecture Capturing System- VISTAS



Figure 51: Video Editing Room - VISTAS

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