



**PERIYAR
MANIAMMAI**
INSTITUTE OF SCIENCE & TECHNOLOGY
(Deemed to be University)
Established Under Sec. 3 of UGC Act, 1956 • NAAC Accredited
think • innovate • transform

Criterion 1 – Curricular Aspects

Key Indicator	1.3	Curriculum Enrichment
Metric	1.3.2	<i>Number of value-added courses for imparting transferable and life skills offered during 2021 - 2022</i>

Brochure and Course content of Value added courses offered ACADEMIC YEAR 2021-22

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1. IoT Using Raspberry Pi

IoT using Raspberry Pi

Internet of Things or IOT in short, is the idea of making devices and objects smarter by linking them to the internet.

This course introduces you to the amazing world of iot and its fascinating applications. Using a Raspberry Pi computer and a DHT sensor, you will develop an electronic device that streams temperature and humidity data over the internet. You can program the system in such a way that say whenever the temperature exceeds a certain limit, the device will automatically send an email notification!

Highlights of IoT Course:

- Learn the basics of Internet of Things and its applications
- Build your computer using Raspberry Pi platform
- Work with DHT sensors to detect humidity and temperature
- Setup IoT connectivity using a remote desktop
- Understand Raspbian OS, Python programming, SMTP and API
- Develop and test an IoT weather monitoring station



Department of Aerospace Engineering

Organizes

Value Added Course

on

IoT using Raspberry Pi

28.02.2022 - 05.03.2022

AY 2021-22

Batch 2019-23

Course Co-ordinator:
Mr.R.K.Muthuraman,
AP /Aerospace Engineering.

2. AUTOCAD

AUTOCAD

AUTOCAD training course is designed to expand and enhance the Student's ability to combine and apply CAD to design & Analyze /engineering projects related to Aero & Mechanical Engineering .

- Introduction to NX-CAD
- Drawing Sketches for Solid Models
- Adding Constraints and Dimensions to Sketches Editing, Extruding and Revolving Sketches
- Working with Fixed and Relative Datum Planes, Coordinate Systems and Datum Axes
- Advanced Modeling Tools-I Advanced Modeling Tools-II
- Editing Features and Advanced Modeling Tools-III Assembly Modeling -I, Assembly Modeling -II
- Generating, Editing, and Dimensioning the Drawing Views
- Surface Modeling Advanced

BEST PRIVATE
UNIVERSITY
IN INDIA-2018
Awarded by ASSOCHAM

10th BEST
Private
INSTITUTES
IN INDIA 2018



Department of Aerospace Engineering

Organizes

Value Added Course

on

AutoCAD

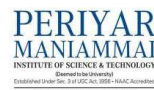
28.02.2022 - 05.03.2022

AY 2021-22

Batch 2020-24

Course Co-ordinator:
Mr.R.K.Muthuraman,
AP/Aerospace Engineering.

3. Autodesk Autocad



DEPARTMENT OF ARCHITECTURE VALUE ADDED TRAINING "COURSE SUMMARY"



AUTODESK
AUTOCAD



- 15 November 2021
to
20 November 2021



- 40 Hours

Computer-aided design (CAD) is technology for :

Design and technical documentation

2D and 3D drawings

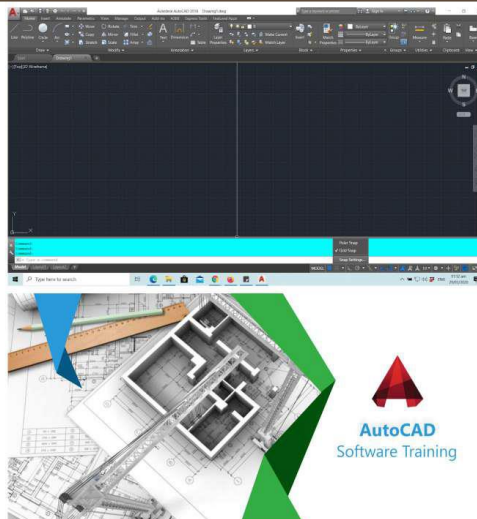
Models

Electrical Drawings

Construction Drawings

Architectural Drawings

AutoCAD is a commercial computer-aided design (CAD) and drafting software application. AutoCAD is the original CAD software used by millions around the world. It can be used to create precise 2D and 3D drawings and models, as well as electrical diagrams, construction drawings, and more.



AutoCAD
Software Training

For any Queries Please do contact :

Er. R . Latha - 9944495784

VAC Co - coordinator - PMIST

Convenor

Dr. C.V.Subramanian

Dean/ Faculty of Architecture & Planning

Co convenor

Ar . N . Ramesh Babu

Head of the Department

4. Act-3D LUMION



DEPARTMENT OF ARCHITECTURE VALUE ADDED TRAINING "COURSE SUMMARY"



Act - 3D



- 18 October 2021
to
-23 October 2021



- 40 Hours

The Desktop 3D applications that are supported by Lumion are:

Trimble SketchUp

Autodesk Revit

Autodesk FormIt Pro

Graphisoft ArchiCAD

Autodesk Autocad

Rhinoceros

BricsCAD

3D Studio Max

Lumion is architectural rendering software that makes it easy to convey how your projects will translate into real-life experiences and emotions.

Lumion is specifically made for architects who need a faster and more intuitive tool when bringing their design ideas to life.



For any Queries Please do contact :

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VAC Co - coordinator - PMIST

Convenor

Dr. C.V.Subramanian

Dean/ Faculty of Architecture & Planning

Co convenor

Ar . N . Ramesh Babu

Head of the Department

5. V-Ray



DEPARTMENT OF ARCHITECTURE VALUE ADDED TRAINING “COURSE SUMMARY”



- 07 March 2022
to
12 March 2022



- 40 Hours

The Desktop 3D applications that are supported by V-Ray are:

Autodesk 3ds Max

Autodesk Revit[2]

Maya

Rhinoceros

SketchUp

Blender

V-Ray is a commercial plug-in for third-party 3D computer graphics software applications and is used for visualizations and computer graphics in industries such as media, entertainment, film and video game production, industrial design, **product design and architecture.**



For any Queries Please do contact :

Er. R . Latha - 9944495784

VAC Co - coordinator - PMIST

Convenor

Dr. C.V.Subramanian

Dean/ Faculty of Architecture & Planning

Co convenor

Ar . N . Ramesh Babu
Head of the Department

6. Food Processing Technology



BIOTECHNOLOGY
RESEARCHERS
& INNOVATORS
CONSORTIUM



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VALUE ADDED COURSE ON FOOD PROCESSING TECHNOLOGY

Course Coordinator
Dr.K.Anbararu
Assistant professor
Department of Biotechnology
PMIST- Thanjavur.

Content

Introduction to Food technology- Conventional and Non conventional foods- scope and importance of food technology- Microbiology of fermented food- production of food product (Yeast, bacteria, etc.)- Fermented Food- yogurt, cheese, vinegar - soya sauce- Processing of Food - Biotechnological approaches to improve nutritional quality - Food Quality analysis Quality assurance - Food preservation technique- Food preservation by Low-Temp- Food preservation by heating - Non-Thermal Preservation - different type of Packaging material - Marketing.

Organized by
Department of Biotechnology

Date: 05 - 03-2022 to 26 -03-2022

PERIYAR MANIAMMAI INSTITUTE OF SCIENCE & TECHNOLOGY (PMIST)
PERIYAR NAGAR, VALLAM, THANJAVUR - 613403, TAMIL NADU, INDIA

7. STADD PRO



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VALUE ADDED COURSES

STADD PRO

Date : 26.02.2022 -02.04.2022

Introduction to STAAD.Pro.V8i – Getting familiar with STAAD window – Model generation using STAAD editor – Introduction to Snap Node/Beam Editor – Model generation using Node/Beam Editor – Introduction to Translational Repeat – Model generation using Translational Repeat Assigning Properties – Assigning Supports –Assigning Loads – Structure Analysis – Simply Supported Beam – Analysis of Framed Structure – Applying Floor Loads – Wind Analysis – Seismic Analysis – Creating Load Combinations – Dynamic Analysis Response Spectrum – Analysis – Introduction to FEM Analysis of Framed Structure Including Slabs – Column & Beam Design – Reinforced Concrete Design – Slab Design – Moving Loads – Staircase Analysis –Steel Design – Pushover Analysis – Shear Wall –Design Lift Room Modeling






Staad Pro

Department of Civil Engineering

PERIYAR MANIAMMAI INSTITUTE OF SCIENCE & TECHNOLOGY
(Deemed to be University)
Periyar Nagar, Vallam, Thanjavur - 613403
Tamil Nadu, India

For more details, visit
www.pmu.edu
headce@pmu.edu

8. REVIT ARCHITECTURE



VALUE ADDED COURSES

REVIT ARCHITECTURE

Date : 19.02.2022 -26.03.2022

Introduction to Autodesk Revit Architecture – Starting an Architectural Project – Creating Walls – Using Basic Building Components–I (Doors, Windows and Wall Opening)– Using the Editing Tools – Working with Datum Planes and Creating Standard Views – Using Basic Building Components–II (Rooms, Floors and Roofs) – Using Basic Building Components–III (Stairs, Ramps and Curtain Walls)– Adding Site Features – Using Massing Tools – Adding Annotations and Dimensions – Creating Project Details and Schedules – Creating Drawing Sheets, and Plotting – Creating 3D Views – Rendering Views and Creating Walkthroughs – Using Advanced Features



**AUTODESK
REVIT
Architecture**

Department of Civil Engineering
PERIYAR MANIAMMAI INSTITUTE OF SCIENCE & TECHNOLOGY
(Deemed to be University)
Periyar Nagar, Vallam, Thanjavur - 613403
Tamil Nadu, India

For more details, visit
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headce@pmu.edu

9. AUTOCAD



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VALUE ADDED COURSES

AUTOCAD

Date : 05.02.2022 - 05.03.2022

Getting Started with AutoCAD – Basic Drawing & Editing Commands – Projects – Creating a Simple Drawing – Drawing Precision in AutoCAD – Making Changes in Drawing – Drawing Templates –Organizing Drawing with Layers – Advanced Object Types – Analyzing Model and Object Properties – Drawing Organization & Information –Advanced Editing Commands – Inserting Blocks – – Text – Hatching –Adding Dimensions – Creating More Complex Objects – Setting Up a Layout – Printing Drawing



Department of Civil Engineering
PERIYAR MANIAMMAI INSTITUTE OF SCIENCE & TECHNOLOGY
(Deemed to be University)
Periyar Nagar, Vallam, Thanjavur - 613403
Tamil Nadu, India

For more details, visit
www.pmu.edu
headce@pmu.edu

10.NET WITH SQL



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VALUE ADDED COURSE
.NET WITH SQL
09.03.2022 TO 22.03.2022



Organized by
Department of Computer Science and
Engineering
Periyar Maniammai Institute of Science
and Technology, Vallam, Thanjavur -613403

11. ATTUUM DESIGN AND FABRICATION TECHNIQUES

About the course

This is a basic course for designing of PCB using software. PCB(Printed Circuit Board) designing is an integral part of each electronics products and this program is designed to make students capable to design their own projects PCB up to industrial grade.

Learning Objectives

1. Introduction to PCB designing concepts.
2. Component introduction and their categories.
3. Introduction to development tools.
4. Detailed description and practical of PCB designing.
5. Lab practice and designing concepts.



About AK Electronix

AK Electronix is one of the top Electronics design & manufacturing companies Place in South TamilNadu. They are recognized for the fast turnaround with 'First time right design' techniques giving you faster time-to-market. The products that they have designed are field proven & workings successfully 24/7, always exceeding customer expectations and also provide a wide array of engineering services that includes, Embedded Systems Design, Custom Electronics Design, PCB Design, IoT Hardware, Firmware development, Prototyping & Electronic Manufacturing Services

AK ELECTRONIX, Sivagangai.

Address: 80-D Vivekanandapattanam North Street, Sivagangai, Tamil Nadu - 610 302.
Phone: 91 762068399.



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Value Added Course On ALTUUM DESIGN AND FABRICATION TECHNIQUES

2021-22 EVEN Semester

Department of Electronics and Communication Engineering

Periyar Nagar, Vallam, Thanjavur - 613 403, Tamil Nadu, India
 Phone: +91 - 4362 - 264642, Fax: +91 - 4362 - 264660
 Email: headece@pmu.edu Website: www.pmu.edu

Application Form

Name (xxx) (xxx) (xxxxxx)

☐ Male ☐ Female

Year/Branch/Section _____

(Year) (Branch) (Section)

Academic year & Semester _____

Amount Paid _____ Bill Number _____ Date: _____

Phone Number: _____

Student Signature _____ Course Coordinator _____ (xxx)/ECE

About ECE Department

VISION

To be an innovative leading department in the domain of Electronics and Communication Engineering in promoting academic growth by offering UG, PG and Ph.D. Programmes to augment the industrial and societal needs through cutting edge research activities.

Courses offered

- B.Tech - Electronics and Communication Engineering
- M.Tech - Wireless Communication (Full time & Part time)
- M.Tech - Nanotechnology (Full time & Part time)
- Ph.D - Electronics and Communication Engineering
- Ph.D - Nanotechnology

12. INDUSTRIAL AUTOMATION & ROBOTICS (ECE)



**PERIYAR
MANIAMMAI**
INSTITUTE OF SCIENCE & TECHNOLOGY
Salem, Tamil Nadu
Established in 1983



**VALUE ADDED CERTIFICATE TRAINING
OR
INDUSTRIAL AUTOMATION & ROBOTICS**
Date: 20/12/21 to 24/12/21 | Time: 9:00AM to 4:00PM

Organized by
Centre of Excellence in Training and Research in Automation
Technology & eYantra-PMIST

Participants
Final year Engineering students from
ECE, Mechanical, Aerospace, CSE, EEE

13.INDUSTRIAL AUTOMATION & ROBOTICS EEE





**PERIYAR
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INSTITUTE OF SCIENCE & TECHNOLOGY
Salem
Established in 1983
A Central Board of Secondary Education (CBSE) Affiliated Institution
Approved by the Government of Tamil Nadu



VALUE ADDED CERTIFICATE TRAINING
OR
INDUSTRIAL AUTOMATION & ROBOTICS

Date: 20/12/21 to 24/12/21 | Time: 9:00AM to 4:00PM

Organized by
**Centre of Excellence in Training and Research in Automation
Technology & eYantra-PMIST**

Participants
***Final year Engineering students from
ECE, Mechanical, Aerospace, CSE, EEE***

14. PCB DESIGNING

About the course

This is a basic course for designing of PCB using software. PCB(Printed Circuit Board) designing is an integral part of each electronics products and this program is designed to make students capable to design their own projects PCB up to industrial grade.

Learning Objectives:

1. Introduction to PCB designing concepts.
2. Component introduction and their categories.
3. Introduction to development tools.
4. Detailed description and practical of PCB designing.
5. Lab practice and designing concepts.

About the Department

The Department of Electrical and Electronics Engineering was established in the year of 2002 and is one of the pillars of the University. The main aim of the department is to develop students for the professional practice of Electrical and Electronics Engineering by offering different programmes that encourage lifelong learning, teamwork and leadership, and promote creative discovery to contribute meaningfully to the development of India.

The Department is practicing in the state-of-art fields like Energy conservation and auditing Energy efficient systems and Renewable energy systems.

- *B.Tech. (Electrical and Electronics Engineering)*
- *M.Tech. (Power Electronics and Drives)*
- *Ph.D.*



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Wisdom Better Knowledge
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Think • Imagine • Transform

Value Added Course on **PCB Designing**

2021-2022 Even Semester

Department of Electrical and Electronics Engineering

Office: 1st Floor, Block - A, Periyar Maniammai Institute of Science & Technology,
Phone: +91 - 4362 - 264600 Fax: +91 - 4362 - 264660
Email: head@pmi.edu Web: www.pmi.edu

15. Auto CAD – Electrical

About the course

Auto CAD Electrical is a CAD software electrical designers and engineers. It is widely used software for creating electrical and electronic diagrams, schematic and control circuit diagrams and documentations. Auto Cad electrical comes with powerful drafting tools for controls and schematic design. Its rich repository of symbol libraries helps designers increase their productivity in electrical design tasks.

Learning Objectives:

1. Application of Auto CAD
2. Introduction to engineering drawings
3. Drawing tools
4. Exploring GUI
5. Layer Management
6. Project properties
7. Drawing properties
8. Circuit builder
9. Point to point wiring tools
10. Circuit Design.

About the Department

The Department of Electrical and Electronics Engineering was established in the year of 2002 and is one of the pillars of the University. The main aim of the department is to develop students for the professional practice of Electrical and Electronics Engineering by offering different programmes that encourage lifelong learning, teamwork and leadership, and promote creative discovery to contribute meaningfully to the development of India.

The Department is practicing in the state-of-art fields like Energy conservation and auditing Energy efficient systems and Renewable energy systems.

- *B.Tech.(Electrical and Electronics Engineering)*
- *M.Tech.(Power Electronics and Drives)*
- *Ph.D.*



Value Added Course on Auto CAD-Electrical

2021-2022 Even Semester

Department of Electrical and Electronics Engineering

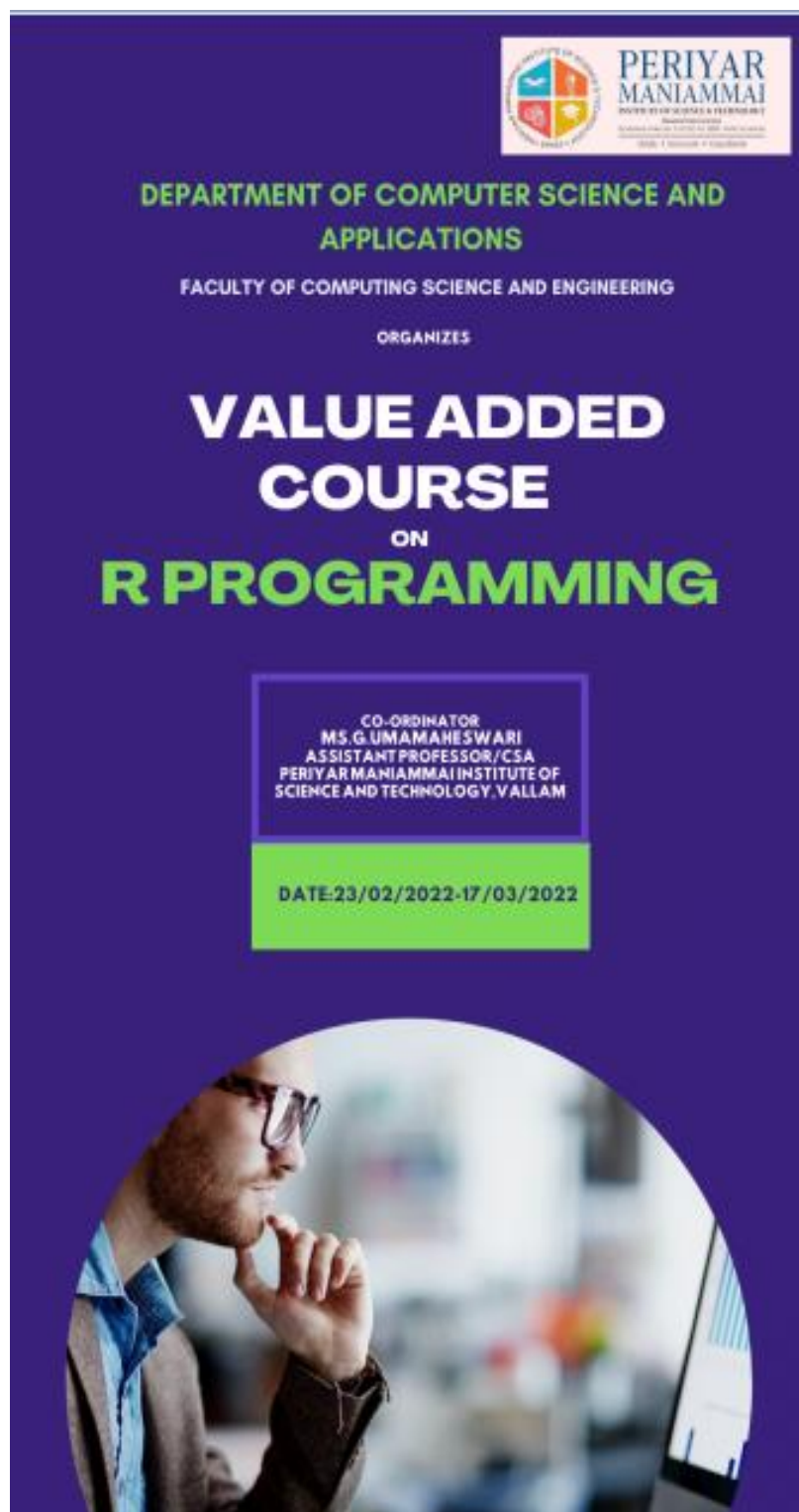
Address: Naser, Valluvar, Maniammai, 603 403, Tamil Nadu, India.
Phone: +91-4362-264600 Fax: +91-4362-264660
Email: headese@pmu.edu Web: www.pmu.edu


16.CREO PARAMETRIC

<p>Course Content Creo Parametric</p> <ul style="list-style-type: none"> • Introduction to Creo Parametric • Creating Sketches in the Sketch mode • Creating Base features • Datums • Options Aiding Construction of parts • Advanced Modelling tools • Assembly Modelling • Generating, Editing and Modifying • Dimensioning the drawing views • Surface Modelling • Working with Sheet metal Components 	<div style="text-align: center;">  <p>PERIYAR MANIAMMAI INSTITUTE OF SCIENCE & TECHNOLOGY <small>(Government University)</small> Established Under Sec. 3 of UGC Act, 1956 - NAAC Accredited Think • Innovate • Transform</p> </div> <p>Contact Info</p> <p>Dr.J.Thiagarajan, Associate Professor & Head</p> <p>Department of Mechanical Engineering</p> <p>Periyar Maniammai Institute of Science and Technology Vallam, Thanjavur.</p> <p>Phone No - 9003976775</p>	<p>PERIYAR MANIAMMAI INSTITUTE OF SCIENCE AND TECHNOLOGY</p> <p>DEPARTMENT OF MECHANICAL ENGINEERING</p> <p>Presents</p> <p>Value Added Course on CREO PARAMETRIC</p> <p>DATE 31.03.2022 TO 13.04.2022</p> <p>DURATION - 30 HOURS</p>
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<p>ABOUT PMIST</p> <p>PMIST is a proud to be an unique Institution of higher learning and academic excellence. In an endeavour to fulfill the dreams of our Mentor Thanthai Periyar and Annai Maniammaiyyar, the University is dedicated to its social responsibility for transforming students from different parts of India and abroad into stalwarts by igniting their hidden talents. As it is located in a rural area, the students are admitted from a wide range of calibre and by personal attention, and modern teaching methodology towards a Product / Process / Demo / Case study teaching, they are shaped into career oriented professional with bright future.</p>	<p>ABOUT VALUE ADDED COURSE</p> <p>The Value added courses aim to provide additional learner centric graded skill oriented technical training, with the primary objective of improving the employability skills of engineering students of PMIST.</p> <p>The Main Objectives of this courses are,</p> <ul style="list-style-type: none"> • To Provide students an understanding of the expectations of Industry. • To Improve employability skills of engineering students from PMIST. • To bridge the skill gaps and make students industry ready. • To Provide an Opportunity to students to develop inter-disciplinary skills. • The Strategy adopted tries to bridge the perceived technical competency gaps of students by providing training in employability enhancing technical courses. 	
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17.R PROGRAMMING



 **PERIYAR
MANIAMMAI**
INSTITUTE OF SCIENCE & TECHNOLOGY
VALLAM
Established in the year 1982
Autonomous Institute

**DEPARTMENT OF COMPUTER SCIENCE AND
APPLICATIONS**


FACULTY OF COMPUTING SCIENCE AND ENGINEERING

ORGANIZES



**VALUE ADDED
COURSE
ON
R PROGRAMMING**

CO-ORDINATOR
MS. G. UMAMAHESWARI
ASSISTANT PROFESSOR/CSA
PERIYAR MANIAMMAI INSTITUTE OF
SCIENCE AND TECHNOLOGY, VALLAM

DATE-23/02/2022-17/03/2022



18. DATA ANALYTICS WITH Python




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**DEPARTMENT OF COMPUTER SCIENCE
AND APPLICATIONS**

Organizes

VALUE ADDED COURSE

On




DATA ANALYTICS WITH PYTHON

Date: 23.02.2022 to 17.03.2022

Time 2:30 pm – 4.00 pm

Periyar Maniammai Institute of Science and Technology (Deemed to be University),
Thanjavur, Tamilnadu, India
www.pmu.edu



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DEPARTMENT OF COMMERCE

Organised Value Added Course on

"Introduction to SPSS"

(for Final Year B.Com, B.Com Hons (2019 -2022 Batch))

Date: 25.02.2022 to 09.03.2022 Venue: PKC Ext. 208




**SPSS
DATA
ANALYSIS**

Resource Persons
Dr.D.Umamaheswari, Professor
Dr.N.Jayanthi, Asso. Prof
Dr.R.Sathishkumar, Asst. Prof.

<p>DEPARTMENT OF COMMERCE Periyar Maniammai Institute of Science and Technology (Deemed to be University) Periyar Nagar, Vallam, Thanjavur, 613403, Tamilnadu, India.</p>	<p>CONVENER Dr.N.Jayanthi, Asso. Prof. & Head COORDINATOR Dr.R.Sathishkumar, Asst. Prof. Dr.S.Prabhu, Asst. Prof.</p>
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20. Tally ERP 9 with GST




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DEPARTMENT OF COMMERCE

Organised Value Added Course on "Tally ERP 9 with GST"

(for B.Com Hons (2021 -2024 Batch))

Date: 30.05.2022 to 11.06.2022 Venue: PKC Ext. 310



Resource Person
Dr.S.Prabhu, M.Com., M.Phil., Ph.D.,
Assistant Professor,
Department of Commerce,
Periyar Maniammai Institute of Science and Technology

DEPARTMENT OF COMMERCE Periyar Maniammai Institute of Science and Technology (Deemed to be University) Periyar Nagar, Vallam, Thanjavur, 613403, Tamilnadu, India.	CONVENER Dr.N.Jayanthi, Asso. Prof. & Head COORDINATOR Ms.K.Sumithra, Asst. Prof.
---	--

21. Photoshop



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DEPARTMENT OF COMMERCE

Organised Value Added Course on "Photoshop"

(For B.Com Final Year (2020-23 Batch))

Date: 17.03.2022 to 30.03.2022 Venue: Archimidies Hall




Resource Person
Dr.K.Dhinakaran,
Assistant Professor,
Department of Software Engineering

DEPARTMENT OF COMMERCE
Periyar Maniammai Institute of Science and Technology
(Deemed to be University)
Periyar Nagar, Vallam, Thanjavur, 613403,
Tamilnadu, India.

CONVENER
Dr.N.Jayanthi, Asso. Prof. & Head
COORDINATOR
Ms.K.Mehala, Asst. Prof.
Ms.G.Geetha, Asst. Pro.

22.Basic E- Commerce Site Creation




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DEPARTMENT OF COMMERCE

Organises Value Added Course on
"Basic E-Commerce Site Creation"
(for First Year B.Com (2021 -2024 Batch))

Date: 01.06.2022 to 21.06.2022 Venue: PKC Ext. 201



DEPARTMENT OF COMMERCE
Periyar Maniammai Institute of Science and Technology
(Deemed to be University)
Periyar Nagar, Vallam, Thanjavur, 613403,
Tamilnadu, India.

CONVENER
Dr.N.Jayanthi, Asso. Prof. & Head
COORDINATOR
Ms.K.Vinothinidevi, Asst. Prof.
Mr.R.Amarnath, Asst. Prof.

23. Making Household Chemicals

About the course

Certificate in Making Household Chemicals

- Preparation of Detergent washing powder
- Preparation of Liquid blue
- Preparation of Pains relieving balm
- Preparation of Teeth paste
- Preparation of Room freshener
- Preparation of Utensils cleaning powder
- Preparation of Normal shampoo
- Preparation of Jasmine perfume liquid
- Preparation of Rose water
- Preparation of White phenyl



PERIYAR MANIAMMAI
UNIVERSITY
SCHOOL OF DISTANCE EDUCATION
Salem, Tamil Nadu, India

Value Added Course
On
Certificate in Making Household Chemicals



2023-2024 (Odd Semester)

Resource Person
Dr. S. Krishna
Assistant Professor,
Department of Chemistry,
PMU, S.

DEPARTMENT OF CHEMISTRY

Periyar Nagar, Vallam, Thanjavur - 612 403, Tamil Nadu, India
Phone: +91 - 9952-264542, Fax: +91 - 9952 - 264550
Email: headchem@pmu.edu Website: www.pmu.edu

Application Form

Name: _____ (Last) _____ (First) _____ (Middle)

☐ Male ☐ Female

Year/Branch/Section: _____ (Year) _____ (Branch) _____ (Section)

Academic year & Semester: _____

Amount Paid: _____ Bill Number: _____ Date: _____

Email: _____ Phone Number: _____

Student Signature: _____ Course Coordinator: _____ HOD/Classroom: _____

ABOUT CHEMISTRY DEPARTMENT

The Chemistry department was established in the year 1988. The department is having highly qualified and well-experienced faculty members. The department is carrying out various research works in the fields of Photocatalysis, Bio-methanation, Supramolecular Chemistry, Environmental Chemistry, Nanomaterials for Energy Production and Nanomaterials by Green Synthesis.

Courses offered

- B. Sc - Chemistry (3 Years)
- M. Sc - Chemistry (2 Years)
- M. Phil - Chemistry (Full Time & Part Time)
- Ph. D - Chemistry (Full Time & Part Time)

24. Special Education

Course Duration: 30 Hrs.

Course Content

I. Learning Disability

- 1.1. Understanding and Identifying Students with Learning Difficulties
- 1.2. Dyslexia
- 1.3. Dyscalculia
- 1.4. Dysgraphia
- 1.5. Dyspraxia

II ADHD

- 2.1. Understanding Student with Attention-Deficit/Hyperactivity Disorder (ADHD)
- 2.2. Understand the Common Characteristics of High-functioning autism (HFA)
- 2.3. Discover How the Student Think
- 2.4. Nurture Student's Social Skills
- 2.5. Encourage Language Reciprocity

III Special Education Support

- 3.1. Making sense of the Individualized Education Programme
- 3.2. Learning the Right Teaching Strategies
- 3.3. Helping Students with Word Identification Problem
- 3.4. Helping Students with Reading Comprehension Problem
- 3.5. Government Welfare Schemes

Registration Form:

Name of the student : _____

Registration Number : _____

Gender ☐ Male ☐ Female

Year/Branch/Section: _____

Academic year & Semester: _____

Amount Paid _____ Bill Number _____ Date: _____

e-mail _____ Mobile Number: _____

Student Signature _____ Course Coordinator _____ HoD Education _____

Department of Education

Established in 2009 with the objectives of enhance the professional competencies and skills for student teachers which enable them to serving as teachers in Elementary, Secondary and Higher Secondary Schools with self-confidence and have a competence in the teaching community. The department is having highly qualified and well-experienced faculty members. The Department of Education offers B.Ed. Programme and four year integrated B.Sc. B.Ed. Programme from 2015.

About the Course:

Special education programs are designed for those students who are mentally, physically, socially and emotionally delayed. The "delay" aspect broadly categorized as a developmental delay, signify an aspect of the child's overall development (physical, cognitive, scholastic skills) which place them behind their peers. Due to these special requirements, students' needs cannot be met within the traditional classroom environment. Special education programs and services adopt content, teaching methodology and delivery instruction to meet the appropriate needs of each child. These services are of no cost to the family and are available to children until they reach 21 years of age. The course emphasizes the inclusive practices and the ways to effectively handle learners with disabilities in general education classrooms. The program will inculcate trainees with the various approaches to teach Special Education Needs (SEN) children and make a significant contribution as an educator.



Value Added Course On Special Education

Odd Semester 2021-2022



By

Department of Education
Periyar Maniammai Institute of
Science & Technology
(Deemed to be University ,
Vallam, Thanjavur.



25. Peace Education

Course Duration: 30 Hrs. Course Content:	Department of Education	 PERIYAR MANIAMMAI INSTITUTE OF SCIENCE & TECHNOLOGY Deemed to be University Vallam, Thanjavur 605 006 • India • 0432-2610000
I Foundational and Philosophical Base	Established in 2009 with the objectives of enhance the professional competencies and skills for student teachers which enable them to serving as teachers in Elementary, Secondary and Higher Secondary Schools with self-confidence and have a competence in the teaching community. The department is having highly qualified and well-experienced faculty members. The Department of Education offers B.Ed. Programme and four year integrated B.Sc. B.Ed. Programme from 2015.	
II Initiation of Peace		
III Role of Community		
Registration Form:	About the Course:	Value Added Course On Peace Education
Name of the student : _____	Special education programs are designed for those students who are mentally, physically, socially and emotionally delayed. The "delay" aspect broadly categorized as a developmental delay, signify an aspect of the child's overall development (physical, cognitive, scholastic skills) which place them behind their peers. Due to these special requirements, students' needs cannot be met within the traditional classroom environment. Special education programs and services adapt content, teaching methodology and delivery instruction to meet the appropriate needs of each child. These services are of no cost to the family and are available to children until they reach 21 years of age. The course emphasises the inclusive practices and the ways to effectively handle learners with disabilities in general education classrooms. The program will inculcate trainees with the various approaches to teach Special Education Needs (SEN) children and make a significant contribution as an educator.	
Registration Number : _____		
Gender <input type="checkbox"/> Male <input type="checkbox"/> Female		
Year/Branch/Section: _____		
Academic year & Semester: _____		
Amount Paid _____ Bill Number _____ Date: _____		
e-mail _____ Mobile Number: _____		
Student Signature _____ Course Coordinator _____ HoD Education _____	By Department of Education Periyar Maniammai Institute of Science & Technology (Deemed to be University , Vallam, Thanjavur.	

26. Inclusive Education

<p>Course Duration: 30 Hrs.</p> <p>Course Content</p> <p>I. Learning Disability</p> <p>1.1. Understanding and Identifying Students with Learning Difficulties</p> <p>1.2. Dyslexia</p> <p>1.3. Dyscalculia</p> <p>1.4. Dysgraphia</p> <p>1.5. Dyspraxia</p> <p>II ADHD</p> <p>2.1. Understanding Students with Attention-Deficit/Hyperactivity Disorder (ADHD)</p> <p>2.2. Understand the Common Characteristics of High-functioning autism (HFA)</p> <p>2.3. Discover How the Students Think</p> <p>2.4. Name Student's Social Skills</p> <p>2.5. Encourage Language Reciprocity</p> <p>III. Special Education Support</p> <p>3.1. Making sense of the Individualized Education Programme</p> <p>3.2. Learning the Right Teaching Strategies</p> <p>3.3. Helping Students with Word Identification Problems</p> <p>3.4. Helping Students with Reading Comprehension Problems</p> <p>3.5. Government Welfare Schemes</p> <p>Registration Form:</p> <p>Name of the student : _____</p> <p>Registration Number : _____</p> <p>Gender <input type="checkbox"/> Male <input type="checkbox"/> Female</p> <p>Year/Branch/Section: _____</p> <p>Academic year & Semester: _____</p> <p>Amount Paid _____ Bill Number _____ Date: _____</p> <p>e-mail _____ Mobile Number: _____</p> <p>Student Signature _____ Course Coordinator _____ HoD Education _____</p>	<p>Department of Education</p> <p>Established in 2009 with the objectives of enhance the professional competencies and skills for student teachers which enable them to serving as teachers in Elementary, Secondary and Higher Secondary Schools with self-confidence and have a competence in the teaching community. The department is having highly qualified and well-experienced faculty members. The Department of Education offers B.Ed. Programme and four year integrated B.Sc. B.Ed. Programme from 2015.</p> <p>About the Course:</p> <p>Special education programs are designed for those students who are mentally, physically, socially and emotionally delayed. The "delay" aspect broadly categorized as a developmental delay, signify an aspect of the child's overall development (physical, cognitive, scholastic skills) which place them behind their peers. Due to these special requirements, students' needs cannot be met within the traditional classroom environment. Special education programs and services adapt content, teaching methodology and delivery instruction to meet the appropriate needs of each child. These services are of no cost to the family and are available to children until they reach 21 years of age. The course emphasizes the inclusive practices and the ways to effectively handle learners with disabilities in general education classroom. The program will inculcate trainees with the various approaches to teach Special Education Needs (SEN) children and make a significant contribution as an educator.</p>	<div data-bbox="1101 331 1388 541">  <p>PERIYAR MANIAMMAI INSTITUTE OF SCIENCE & TECHNOLOGY VAILLAM, THANJAVUR WISDOM • INTEGRITY • INNOVATION</p> </div> <p>Value Added Course On Inclusive Education</p> <p>Even Semester 2021-2022</p> <div data-bbox="1047 966 1380 1134">  </div> <p>By Department of Education Periyar Maniammai Institute of Science & Technology (Deemed to be University , Vallam, Thanjavur.</p>
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27. Classroom Management

Course Duration: 30 Hrs.	Department of Education	 PERIYAR MANIAMMAI INSTITUTE OF SCIENCE & TECHNOLOGY (Deemed to be University) Vallam, Thanjavur Tamil Nadu - 605 006
Course Content	Established in 2009 with the objectives of enhance the professional competencies and skills for student teachers which enable them to serving as teachers in Elementary, Secondary and Higher Secondary Schools with self-confidence and have a competence in the teaching community. The department is having highly qualified and well-experienced faculty members. The Department of Education offers B.Ed. Programme and four year integrated B.Sc. B.Ed. Programme from 2015.	
I Introduction		
II Classroom management		
III Flipped Classroom		
IV Motivation	Value Added Course On Classroom Management	
V Classroom diversity		
Registration Form:	About the Course:	Even Semester 2021-2022
Name of the student : _____	This course has been created for student teachers who want to learn more about managing an effective and up-to-date classroom that encourages participation and engaged learning using the latest techniques and classroom tools. Teachers will learn more about managing a classroom through reflection, teacher observation, and case scenarios, which encourage discussion and resolution of the most common classroom problems. Through interactive and engaging activities participants will learn how to boost motivation, establish classroom rules, provide clear instructions, monitor, develop support, incorporate pair and group work, and gain tips for encouraging students to reflect on their own classroom behaviour.	
Registration Number : _____		
Gender <input type="checkbox"/> Male <input type="checkbox"/> Female		
Year/Branch/Section: _____		
Academic year & Semester: _____	Learning outcomes	
Amount Paid _____ Bill Number _____ Date: _____	The course will help the participants to: Manage a classroom effectively by establishing rules with logical consequences; Deal with difficult behaviors by working on collaborative solutions; Give clear instructions, organize pair and group work, and develop positive relationships; Motivate learners and get them to reflect on their behavior; Organize and plan for a Flipped Classroom experience; Assess students and provide feedback using portfolios, rubrics, and other forms.	
e-mail _____ Mobile Number: _____		
Student Signature _____ Course Coordinator _____ HoD/Education _____		

28.QUICKER MATHEMATICS

About the Quicker Mathematics


Quicker Mathematics fulfill the need for faster and more effective methods of solving mathematical problems. This course begins with an introduction on tips for preparing for the maths Examination. This course helps the students to track the mathematics sections in all competitive exams with minimum effort.

Learning Objectives


- > Students will demonstrate competence with a wide variety of mathematical tools and techniques.
- > Students will demonstrate the ability to assess the accuracy, implications and limitations of their mathematical results.
- > Students will demonstrate a breadth of knowledge in the associated field.

About PMIST

Periyar Maniammai Institute of Science & Technology has its origin from Periyar Maniammai College for Women established in 1988, named after the great social reformer of the twentieth century, Anna Jayaraman, fondly known as Thanthai Periyar and his philanthropic wife Anna Ammalammal. The college has made several landmark achievements continuously in the field of technical education and in the areas of Women Empowerment and Social Development since its inception. The Government of India/Ministry has conferred the status of University on the college under section 3 of the UGC Act, 1956 on the UGC, New Delhi on 27 August 2007. Further the university has got NAAC accreditation since 2009.



PERIYAR MANIAMMAI
INSTITUTE OF SCIENCE & TECHNOLOGY
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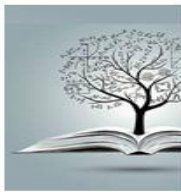
Helping Students master basic facts

VALUE ADDED COURSE ON QUICKER MATHEMATICS

03.01.2022 To 05.01.2022
10.02.2022 To 11.02.2022

Department of Mathematics

Palayamkottai, Valluvar, Thanjavur - 613 403, Tamil Nadu, India
Phone : +91 - 4362 - 264642 Fax : +91 - 4362 - 264660
Email: headmaths@pmu.edu Website : www.pmu.edu

Application Form	About MATHS Department
<p>Value Added Course on Quicker Mathematics</p> <p>Name:</p> <p>Sex:</p> <p>Academic Year/Semester:</p> <p>Department:</p> <p>Organization:</p> <p>Mailing Address:</p> <p>Mobile Number:</p> <p>E-Mail Id:</p> <p>Date:</p> <p>Amount: Rs.</p> <p>Bill Number:</p> <p>Place:</p> <p>Date:</p> <p>Signature of the Participant:</p> <p>Course Co-Ordinator:</p> <p>HOD/Maths:</p>	<p>The Mathematics department of PMIST as already a part of the erstwhile college grew in full strength with 13 well-qualified teaching staff at present. Not only Engineering programmes, but also B.Sc., M.Sc., M.Phil and Ph.D programmes in Mathematics were started. This Mathematics department specialized in the topics such as Algebra, Graph Theory, Fuzzy set and Fuzzy logic, Matrix, Inventory Management, Number Theory and Stochastic Processes.</p> <div style="text-align: center; margin: 20px 0;">  </div> <div style="float: right; text-align: right;"> <p>Courses offered</p> <ul style="list-style-type: none"> <input type="checkbox"/> B.Sc <input type="checkbox"/> M.Sc <input type="checkbox"/> Ph.D - (Full Time & Part Time) </div>

29. ART OF SELLING



**PERIYAR
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INSTITUTE OF SCIENCE & TECHNOLOGY
(Deemed to be University)
Established Under Sec. 3 of UGC Act, 1956 - NAAC Accredited
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**Department of Management Studies
Offers
Value Added Course on**

"ART OF SELLING "

For the Academic year 2021-2022

Duration of the Course

**30 Hours during Even Semester of 2021-22
academic year**



30. DIGITAL BANKING



**PERIYAR
MANIAMMAI**
INSTITUTE OF SCIENCE & TECHNOLOGY
(Deemed to be University)
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**Department of Management Studies
Offers a
Value Added Course on**

" DIGITAL BANKING "

For the Academic Year 2021-2022



**Value Added Course Certification will be Provides
for Succesfull completion of Course**



**PERIYAR
MANIAMMAI**
INSTITUTE OF SCIENCE & TECHNOLOGY
(Deemed to be University)
Established Under Sec. 3 of UGC Act, 1956 • NAAC Accredited
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**DEPARTMENT OF MANAGEMENT STUDIES
OFFERS A
VALUE ADDED COURSE ON**

SIX SIGMA

**For the Academic Year
2021-2022**



**Value Added Course Certification will be
Provides for Succesfull completion of Course**



32. Internet of Things



**PERIYAR
MANIAMMAI**
INSTITUTE OF SCIENCE & TECHNOLOGY
Established Under Govt. Order No. 347/2005, dated 19/06/2005, AICTE Accredited
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Department of Software Engineering Organize Value Added Course On Internet of Things



Date: 18.11.2021 – 29.11.2021 | Time: 2 – 5 PM | Venue: GoogleMeet

33. DEEP LEARNING



**PERIYAR
MANIAMMAI**
INSTITUTE OF SCIENCE & TECHNOLOGY
(Deemed to be University)
Established Under Sec. 3 of UGC Act, 1956 - NAAC Accredited
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Department of Software Engineering
Organize

Value Added Course

On

Deep Learning



Date: 18.11.2021 – 29.11.2021 | Time: 2 – 5 PM | Venue: GoogleMeet

34.3Ds MAX



Department of Software Engineering
Organize
Value Added Course
On
3Ds MAX



Date: 18.11.2021 – 29.11.2021 | Time: 2 – 5 PM | Venue: GoogleMeet

35. Game Design



Department of Software Engineering
Organize

Value Added Course

On

Game Design



Date: 18.11.2021 – 29.11.2021 | Time: 2 – 5 PM | Venue: GoogleMeet

36. Life coping skills

ACCREDITATIONS & RANKINGS

PERIYAR MANIAMMAI
INSTITUTE OF SCIENCE & TECHNOLOGY

DEPARTMENT OF SOCIAL WORK

ABOUT THE INSTITUTE

Periyar Maniammai Institute of Science & Technology (PMIST) has its origin from Periyar Maniammai College of Technology for Women established in 1988, by Periyar Maniammai Educational and Charitable Society, Chennai - 7 named after the great reformers of twentieth century. E.V. Ramasamy and his wife, Annai Maniammai, the Periyar Maniammai College of Technology for Women has its credit of being the first Women's Engineering College in the world.

The college was started with the approval of AICTE, New Delhi and affiliation to Bharathidasan University, Tiruchirappalli, Tamil Nadu.

recommendation of the UCC, New Delhi on August 17, 2007. This Institution has got accreditation from NBA, since 1998 for selected courses. Further the University has got accreditation from NBA since 1998 and NAAC accreditation.

ABOUT THE DEPARTMENT

Social Work plays a significant role in promoting socio-economic standards by sustainable development in rural areas through Academic, Outreach and Research.

- Established in 2008
- It aims to provide transformative learning
- Social Work is a people-oriented hands-on profession.

The Post Graduate programme in Social Work carves young professionals to bring Social change that leads for the well-being of every individual.

VALUE ADDED COURSE (VAC)
On

Life Coping Skills

06.12.2021 to 28.12.2021

(10 days, Only on Monday, Wednesday and Friday, 30 Hours)

COURSE CONTENT		
S.No	Topic	Hrs
1	Basics of Life Skills	3
2	Life Skill for personal Effectiveness	3
3	Self-Awareness	3
4	Effective Communication and Interpersonal Relationship	3
5	Developing Personal Skills	3
6	Motivation and Self-Actualization	3
7	Time Management and Stress Management	3
8	Social Work Intervention	3
9	Leadership	3
10	Developing Fitness for the Job	3

COURSE REGISTRATION FORM

Name of the Student :

Register Number of the Student :

Programme of the Study & Year :

Name of the Department :

Name of the Institute :

Academic Year :

Semester :

Registration Fee : Rs.500

Signature of the Student :

COURSE COORDINATOR

Mr.S.Parameswaran,
Asst. Professor
Department of Social Work, PMIST
Mobile Number: 8973522170

Signature of the Coordinator
Dr.S.Parameswaran

Signature of Head of Department
Dr.A.Anand Jerard Sebastine

Organised by

Department of Social Work
Periyar Maniammai Institute of Science & Technology, Periyar Nagar, Vallam,
Thanjavur - 613 403

www.pmu.edu

37. Child welfare and Development





PERIYAR MANIAMMAL
INSTITUTE OF SCIENCE & TECHNOLOGY
VALLAM, PERIYAR NAGAR, TAMIL NADU

DEPARTMENT OF SOCIAL WORK

ABOUT THE INSTITUTE

Periyar Maniammal Institute of Science & Technology (PMIST) has its origin from Periyar Maniammal College of Technology for Women established in 1988, by Periyar Maniammal Educational and Charitable Society, Chennai - 7 named after the great reformers of twentieth century. E.V. Ramasamy and his wife, Annai Maniammal, the Periyar Maniammal College of Technology for Women has its credit of being the first Women's Engineering College in the world.

The college was started with the approval of AICTE, New Delhi and affiliation to Bharathidasan University, Tiruchirappalli, Tamil Nadu.

recommendation of the UGC, New Delhi on August 17, 2007. This Institution has got accreditation from NBA, since 1998 for selected courses. Further the University has got accreditation from NBA since 1998 and NAAC accreditation.

ABOUT THE DEPARTMENT

Social Work plays a significant role in promoting socio-economic standards by sustainable development in rural areas through Academic, Outreach and Research.

- Established in 2008
- It aims to provide transformative learning
- Social Work is a people-oriented hands-on profession.

The Post Graduate programme in Social Work carves young professionals to bring social change that leads for the well-being of every individual.

VALUE ADDED COURSE (VAC)
On

Child Welfare and Development



07.02.2022 to 28.02.2022

(10 days, Only on Monday, Wednesday and Friday, 30 Hours)

COURSE CONTENT

S.No	Topic	Hrs
1	Significant facts about development periods	3
2	Developmental tasks during stages of development	3
3	Role of social institutions and organizations	3
4	Disabilities of child	3
5	Child prostitution in India.	3
6	Problems of child labour	3
7	legal provisions relating to child labour	3
8	social work intervention	3
9	Rights of the child	3
10	National policy for children, major policy measures.	3

COURSE REGISTRATION FORM

Name of the Student : _____

Register Number of the Student : _____

Programme of the Study & Year : _____

Name of the Department : _____

Name of the Institute : _____

Academic Year : _____

Semester : _____

Registration Fee : Rs.500

Signature of the Student : _____

COURSE COORDINATOR

Dr.S.Gnanaraj, District Coordinator,
City Coordinator,
CHILDLINE, Nodal Organization
Department of Social Work, PMIST
Mobile Number: 9159510279

Signature of the Coordinator
Dr.S.Gnanaraj

Signature of Head of Department
Dr.A.Anand Jerard Sebastine

Organised by

Department of Social Work

Periyar Maniammal Institute of Science & Technology, Periyar Nagar, Vallam,
Thanjavur - 613 403

www.pmu.edu

38. Indian Constitution and Human Rights



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PERIYAR MANIAMMAI UNIVERSITY
PERIYAR MANIAMMAI UNIVERSITY
PERIYAR MANIAMMAI UNIVERSITY



**VALUE ADDED COURSE
ON
INDIAN CONSTITUTION
AND HUMAN RIGHTS**

JOSEPH MOHAMMED
Department of Political Science

Periyar Nagar, Vallam,
Thangarasi-601 403,
Tamil Nadu, India
Email: josephmohammed@periyar.ac.in
Website: www.periyar.ac.in

ABOUT THE DEPARTMENT

The Department of Political Science was established in the year 1985. The most recent curriculum was designed on the basis of CBC and UPMU syllabus. The Department's faculty reflects diversity of their experience in the highest level on their profession. Post graduate students have access to an enriched range of expertise and activity in the fields of government and politics, political theory, Public Administration and International study. From ancient and modern history to the present day, and covering all regions of the globe. Teaching and Learning methods includes Active method, Interaction with Teachers, Periodic class test and the seminar, Group discussion, Quiz programme, Assignments and Seminar Based Teaching.

LEARNING OUTCOMES

- To develop conceptual and theoretical understanding of human rights
- To disseminate knowledge of human rights
- To create awareness and critical reflection of the significance of human rights
- To foster respect and develop social, ethical, moral, political and cultural values related to human rights in the minds of the students

UNIT-I

India's Independence Movement-Human Rights and the Constitution-Assembly-Fundamental Rights in India.

UNIT-II

Rights under Part-III of the Indian Constitution: Right to Equality, Abolition of Untouchability, Right to Freedom-Protection in respect of conviction for offences, Protection of Personal Liberty-Right to Education-Fundamental rights relating to work and duration-Production of worker in business enterprise and forced labour Right against exploitation, Right to Freedom of Religion-Cultural and Educational Rights of Minorities.

UNIT-III

Directive Principles of State Policy- Meaning- Implementation of the Directive Principles- Economic, Social and Cultural Rights- Relationship between Fundamental Right and DPSP- Rights of the Marginalized.

UNIT-IV

Constitutional Remedies- Art.32 and Art.226-Writ Jurisdiction- 5 Types of Writ (Habeas Corpus, Mandamus, Prohibition, Certiorari, Quo-warranto).

ABOUT THE LIAISON

UNIT-I

India's Independence Movement-Human Rights and the Constitution-Assembly-Fundamental Rights in India.

UNIT-II

Rights under Part-III of the Indian Constitution: Right to Equality, Abolition of Untouchability, Right to Freedom-Protection in respect of conviction for offences, Protection of Personal Liberty-Right to Education-Fundamental rights relating to work and duration-Production of worker in business enterprise and forced labour Right against exploitation, Right to Freedom of Religion-Cultural and Educational Rights of Minorities.

UNIT-III

Directive Principles of State Policy- Meaning- Implementation of the Directive Principles- Economic, Social and Cultural Rights- Relationship between Fundamental Right and DPSP- Rights of the Marginalized.

UNIT-IV

Constitutional Remedies- Art.32 and Art.226-Writ Jurisdiction- 5 Types of Writ (Habeas Corpus, Mandamus, Prohibition, Certiorari, Quo-warranto).

Dr. K. VELVAKUMAR
CHIEF COORDINATOR, THE DEPARTMENT, PERIYAR
Dr. D. SARTHII SARAVANAN
ASSISTANT PROFESSOR & HEAD, DEPARTMENT OF POLITICAL SCIENCE

APPLICATION FORM

Name: _____ (LAST) _____ (FIRST) _____ (MIDDLE)

Roll No: _____

Year/Block/Section: _____ (Year) _____ (Block) _____ (Section)

Academic year & Semester: _____

Enrollment No: _____ ID Number: _____ Date: _____

E-mail: _____

Student Signature: _____ Course Coordinator: _____ Head-Political Science: _____

Remarks (if any):

W.D. - Noted/Noted, W.D. - Noted/Noted
W.D. - Noted/Noted & W.D. - Noted/Noted

"To deny people their human rights is to challenge their very humanity."
- Nelson Mandela

39. Maintenance of Minor Equipments

About the course

MICROWAVE OVENS AND WASHING MACHINES


Microwaves - Properties and generation - Microwave oven block diagram - LCD timer with alarm - Controllers. Washing machines - Washing machine hardware and software - Types of washing machines - Features of washing machines.

AIR CONDITIONERS AND REFRIGERATORS

Air Conditioning - Components of air conditioning systems - All water air conditioning systems - All air conditioning systems - Unitary and central air conditioning systems - Split air conditioners - water cooler - Refrigerator.

DIGITAL ACCESS DEVICES

Digital computer - Internet access - Online ticket reservation - Functions and networks - Barcode Scanner and decoder - Electronic Fund Transfer - Automated Teller Machines (ATMs) - Set-Top boxes - Digital cable TV - Video on demand.



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**Value Added Course
On
Maintenance of Minor Equipments**

2021-2022 ODD Semester

DEPARTMENT OF PHYSICS
RESOURCE PERSON : DR. K. KESAVAN

Periyar Nagar, Vallam, Thanjavur - 613 403, Tamil Nadu, India
Phone: +91 - 4362 - 264642, Fax: +91 - 4362 - 264660
Email: headece@pmu.edu Website: www.pmu.edu

Application Form

Name _____
(last) (first) (middle)

☐ Male ☐ Female

Year/Branch/Section _____
(Year) (Branch) (Section)

Academic year & Semester _____


Amount Paid _____ Bill Number _____ Date: _____

Email: _____ Phone Number: _____

Student Signature _____ Course Coordinator _____ HOD/Physics _____

ABOUT PHYSICS DEPARTMENT

The physics department was established in the year 1988. The department is having highly qualified and well-experienced faculty members. The department is carrying out various research works in the fields of crystal growth, thin films, vacuum tube collectors, Spectroscopy.



Courses offered

- ☐ B.Sc - Bachelor of Science (3 Years)
- ☐ M.Sc - Master of Science (2 Years)
- ☐ Ph.D - Full Time & Part Time

40. Conversation Skills



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Department of Languages
offers
Value Added Course on

CONVERSATION SKILLS

Duration of the Course
30 Hrs
(2021-2022) Even Semester

COURSE CO-ORDINATOR
DR. K. SELVAM
DEPARTMENT OF LANGUAGES

41. Industrial Chemistry

About the course

Certificate in Industrial chemistry

Industrial effluent from the industries and water treatment.
Estimation of hexavalent chromium present in the given water sample using colorimetric method.

Corrosion in industries and its control
Determination of corrosion rate by weight loss method.

Protective coatings : Paints, pigments, varnish and enamels
Preparation of pigment (zinc oxide).

Cements : Classification of cement, ingredients and their role, Manufacture of cement and the setting process, quick setting cements.
Analysis of Cement.

Oils and Fats : Classification of oils, fat splitting, distillation of completely miscible and nonmiscible oils, hydrogenation of oils, rancidity, saponification value, iodine value. Analysis of oils and fats (iodine value, saponification value, acid value).

Food additives : A general study of food flavours, colours and preservatives, artificial sweeteners and food adulterants. Testing of turmeric powder, milk and mustard oil for adulterants.

Fertilizers : Different types of fertilizers. Manufacture and analysis of fertilizers. Determination of free acidity in ammonium sulphate fertilizer.

Cosmetics : A general study including preparation and uses of the following: Hair dye, hair spray, Shampoo, Sun-tan lotions, face powder, lipsticks, talcum powder, nail enamel, creams (cold, vanishing and shaving creams), Preparation of face cream, nail polish and nail polish remover.

Drugs : Synthesis of the following drugs: analgesics agents, antipyretic agents and antacid (Aspirin, paracetamol, Ibuprofen); Preparation of Aspirin and its analysis. (or) Preparation of Magnesium bisulfate (Antacid).

Dyes : General introduction and classification with special reference to textile and edible dyes and fabric brighteners. Industrial preparation and uses of methyl orange, malachite green. Preparation of Malachite Green. (or) Preparation of Methyl Orange.



**PERIYAR
MANIAMMAI**
INSTITUTE OF SCIENCE & TECHNOLOGY
(Established under the Tamil Nadu Legislative Assembly Act No. 10 of 1982)
Dindimur • Kanyakumari • Tirunelveli

Value Added Course On Certificate in Industrial Chemistry



2021-2022 (Odd Semester)

Resource Person
Dr. M. Karthikeyan
Assistant Professor,
Department of Chemistry,
PMIST.

DEPARTMENT OF CHEMISTRY

Periyar Nagar, Vallam, Thanjavur - 613 403, Tamil Nadu, India
Phone: +91 - 4362 - 264642, Fax: +91 - 4362 - 264660
Email: headchem@pmu.edu Website: www.pmu.edu

Application Form

Name	(last)	(first)	(middle)
<input type="checkbox"/> Male	<input type="checkbox"/> Female		
Year/Branch/Section	(Year)	(Branch)	(Section)
Academic year & Semester			
Amount Paid	Bill Number	Date:	
e-mail		Phone Number:	
Student Signature	Course Coordinator	HoD/Chemistry	

ABOUT CHEMISTRY DEPARTMENT

The Chemistry department was established in the year 1988. The department is having highly qualified and well-experienced faculty members. The department is carrying out various research works in the fields of Photocatalysis, Bio-methanation, Supramolecular Chemistry, Environmental Chemistry, Nanomaterials for Energy Production and Nanomaterials by Green Synthesis.

Courses offered

- + B.Sc - Chemistry (3 Years)
- + M.Sc - Chemistry (2 Years)
- + M.Phil- Chemistry (Full Time & Part Time)
- + Ph.D - Chemistry (Full Time & Part Time)

42. Spectral Interpretations

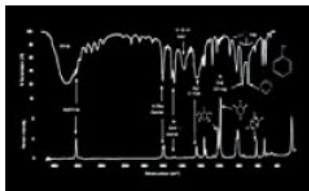
About the course

Certificate in Spectral Interpretation

- Introduction to electromagnetic radiation - Types of electromagnetic radiation - Introduction of electronic excitation, instrumentation, presentation of spectrum, chromism, chromophore, fluorophore etc, studies of conjugated and extended conjugated systems, aromatic systems etc, solvent effects, Woodward rules- Interpretation of UV-Visible spectra of organic molecules.
- Major modes of vibration- instrumentation (FT spectrometer), correlation charts and tables-identification of functional groups and hydrogen bonding-Elemental Analysis & Mass Spectrometry- Qualitative and quantitative elemental analysis- molecular mass determination-determination of molecular formula of an unknown organic substrate-fragmentation and rearrangements.
- Basic concepts and principles- nuclear spin states- nuclear magnetic moments- mechanism of resonance- chemical shifts, diamagnetic shielding- magnetic anisotropy- spin-spin splitting- coupling constant- first order and second order spectra- Interpretation of spectra of organic molecules- introduction to 2D-NMR- COSY, NOESY, DEPT and basic introduction to solid state NMR.
- Basic principles and applications of ESR spectroscopy to free radicals molecules of transition metal complexes- basic principles of Mossbauer spectroscopy- applications on the basis of isomer shifts- electric quadrupole interactions.
- Structure elucidation by joint application of UV, IR, NMR and mass spectrometry for simple organic compounds.



Value Added Course On Certificate in Spectral Interpretation



2021-2022 (Odd Semester)

Resource Person

Dr. S. Rajkumar
Assistant Professor,
Department of Chemistry,
PMIST.

DEPARTMENT OF CHEMISTRY

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