



Periyar University

DUIC

M.Sc. Creative Media Technologies

(2 YEARS)

Program Outcomes (POs):

- **PO1: Technical Proficiency** - Graduates should demonstrate a deep understanding of creative media technologies, including programming languages, software tools, hardware systems, multimedia production, and emerging technologies relevant to the field.
- **PO2: Creative Problem Solving** - Graduates should be able to analyze complex challenges in creative media industries and apply innovative solutions, combining technological expertise, creative thinking, and programming skills.
- **PO3: Critical Thinking and Problem-Solving** - Graduates should be able to apply critical thinking skills to analyze and solve problems related to creative media production, including design, production, and post-production challenges.
- **PO4: Collaborative Skills** - Graduates should be capable of working effectively in interdisciplinary teams, understanding the dynamics of creative projects, and contributing constructively to achieve common goals, including collaborative programming projects.
- **PO5: Ethical and Professional Conduct** - Graduates should uphold ethical standards and demonstrate a strong sense of responsibility in their professional practices, respecting intellectual property rights, ethical use of data, and adhering to industry norms related to programming.
- **PO6: Research and Analysis** - Graduates should possess research skills to investigate and evaluate trends, theories, and best practices in creative media technologies and programming, fostering continuous learning and adaptability.

Program Specific Outcomes (PSOs):

- **PSO1: Interactive Media Development** - Graduates should be proficient in designing and developing interactive media content, such as multimedia applications, user interfaces, and immersive experiences, utilizing programming languages and frameworks.
- **PSO2: Digital Content Creation** - Graduates should have the ability to create high-quality digital content, including graphics, animations, audio, and video, using industry-standard software, creative tools, and programming techniques.
- **PSO3: Storytelling and Narrative Design** - Graduates should be skilled in crafting compelling narratives and storylines for various media formats, understanding how to engage programming elements to enhance user experiences.
- **PSO4: Media Technology Integration** - Graduates should be able to integrate diverse media technologies seamlessly, enabling the efficient production and delivery of multimedia content across multiple platforms.
- **PSO5: Emerging Media Trends** - Graduates should be aware of the latest trends and innovations in creative media technologies, including virtual reality, augmented reality, artificial intelligence, and other cutting-edge technologies.
- **PSO6: Project Management** - Graduates should possess project management skills to plan, execute, and deliver creative media projects successfully, including those involving programming components, meeting deadlines and

Module Name	Blockchain Technologies	Module Type	Elective VIII: Practical
Semester	IV	Credits	2
Degree	M.Sc. Creative Media Technologies		

Course Objectives:

- Understand blockchain fundamentals, including decentralization and cryptography.
- Explore blockchain architecture and consensus mechanisms.
- Develop and deploy smart contracts on platforms like Ethereum.
- Learn blockchain security and best practices.
- Analyze real-world blockchain applications and future potential.

Course Outcomes:

On the successful completion of the course, students will be able to:

CO Number	CO Statement	Programme Outcomes
CO1	Demonstrate a solid understanding of blockchain technology and its principles, including decentralization and cryptographic techniques	PO1, PO3
CO2	Evaluate different blockchain architectures and consensus mechanisms, and choose appropriate solutions for specific use cases	PO1, PO3, PO4
CO3	Design and develop smart contracts using platforms like Ethereum, and deploy them on a blockchain network	PO1, PO2, PO3, PO5
CO4	Implement security measures to safeguard blockchain data and transactions, and apply best practices for secure blockchain development	PO1, PO5, PO4, PO6
CO5	Analyze real-world applications of blockchain technology in various industries and predict future trends and potential disruptions in the digital economy	PO1, PO3, PO4, PO5, PO6

Mapping with Programme Outcomes:

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO1	2	1	2	3	3	3
CO2	3	2	2	2	3	3
CO3	2	2	2	3	3	3
CO4	2	2	2	2	2	3
CO5	2	2	2	3	3	2
Weightage of course contributed to each PSO	11	9	10	13	14	14

*S-Strong-3 M-Medium-2 L-Low-1

Lab Exercises:

1. Demonstrate the process of Bitcoin Mining
2. Create a Merkle tree
3. Create a Crypto-currency Wallet
4. Demonstrate the process of Ethereum Blockchain
5. Demonstrate various algorithms used in Blockchain Technology.
6. Explore encryption, digital signatures, and blockchain security.
7. Develop and deploy a smart contract on Ethereum or Binance Smart Chain.
8. Evaluate and enhance blockchain project security.
9. Create and manage tokens representing assets.