

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES, TIRUPATI
(AUTONOMOUS)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CIRCULAR

Dt. 25.11.2020

Following are 5 sets of professional elective courses offered for CSE students in various semesters.

III-I SEMESTER PROFESSIONAL ELECTIVES	
<u>Elective1</u>	
20APE0501	Data Warehousing and Mining
20APE0502	Design Patterns
20APE0503	Computer Graphics
III-II SEMESTER PROFESSIONAL ELECTIVES	
<u>Elective2</u>	
20APE0504	Machine Learning
20APE0505	Real Time Operating Systems
20APE0506	Agile Methodologies
IV-I SEMESTER PROFESSIONAL ELECTIVES	
<u>Elective3</u>	
20APE0507	Cyber Security
20APE0508	Adhoc & Sensor Networks
20APE0509	Soft Computing
20APE0510	Distributed Systems
<u>Elective4</u>	
20APE0511	Predictive Analytics
20APE0512	Natural Language Processing
20APE0513	Data Analytics
20APE0514	Information Retrieval Techniques
20APE0515	Human-Computer Interfaces
<u>Elective 5 (MOOCS-2)</u>	
20APE0516	Reinforcement Learning
20APE0517	Introduction to Quantum
20APE0518	Computing: Quantum Algorithms and Qiskit
20APE0519	Advanced Distributed systems
20APE0520	Parameterized Algorithms
20APE0521	Spatial Informatics
20APE0522	Demystifying Networking
20APE0523	Design & Implementation of Computational Complexity


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III-I SEMESTER OPEN ELECTIVES	
<u>Elective1</u>	
20APE0417	Sensors and IoT
20AOE0303	Optimization Techniques
20AOE9925	Deterministic & Stochastic Statistical Methods
III-II SEMESTER OPEN ELECTIVES / JOB ORIENTED ELECTIVE (MOOCs)	
<u>Open Elective2 / JOE 1</u>	
20AJOE0501	Blockchain and its Applications
20AJOE0502	Model Checking
20AJOE0503	System and usable security
20AJOE0504	Introduction to soft computing
20AJOE0505	Hardware security
20AJOE0506	GPU Architectures and Programming
IV-I SEMESTER OPEN ELECTIVES	
<u>Open Elective3/ JOE</u>	
20AJOE0507	Cryptography and Network Security
20AJOE0508	Embedded Systems
20AJOE0509	Fundamentals of Robotics
<u>Open Elective 4/ JOE</u>	
20AJOE0510	Data Science
20AJOE0511	Information Retrieval Systems
20AJOE0512	Advanced Computer Networks

Students of CSE can choose a subject from each set whenever they face the CBCS/Electives in their journey.


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Following are 5 sets of professional elective courses and open elective/ job oriented courses offered for AIDS students in various semesters.

III-I SEMESTER PROFESSIONAL ELECTIVES	
<u>Elective1</u>	
20APE3001	Design And Analysis of Algorithms
20APE3002	Computer Graphics
20APE3003	Adhoc & Sensor Networks
III-II SEMESTER PROFESSIONAL ELECTIVES	
<u>Elective2</u>	
20APE3004	Software Engineering for AI
20APE3005	Game Programming
20APE3006	Introduction To NoSQL Database
IV-I SEMESTER PROFESSIONAL ELECTIVES	
<u>Elective3</u>	
20APE3007	Natural Language Processing
20APE3008	Intelligent Information Retrieval Systems
20APE3009	Health Care Analytics
<u>Elective4</u>	
20APE3010	Applications of Ai
20APE3011	Virtual Reality
20APE3012	Computer Vision
<u>Elective 5 (MOOCS-2)</u>	
20APE3013	Quantum Computing
20APE3014	Cyber Security
20APE3015	Deep Learning


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III-I SEMESTER OPEN ELECTIVES	
Elective1	
20APE0417	Deterministic and Stochastic Statistical Methods
20AOE0303	Optimization Techniques
20AOE9925	Internet of Things
III-II SEMESTER OPEN ELECTIVES / JOB ORIENTED ELECTIVE (MOOCs)	
Open Elective2 / JOE 1	
20AJOE3001	Blockchain and its Applications
20AJOE3001B	Introduction to Cyber Security
20AJOE3002	Model Checking
20AJOE3003	System and usable security
20AJOE3004	Introduction to soft computing
20AJOE3005	Hardware security
20AJOE3006	GPU Architectures and Programming
IV-I SEMESTER OPEN ELECTIVES	
Open Elective3/ JOE	
20APE0415	Speech Processing
20AOE3004	Dev Ops
20AOEMB02	Knowledge Engineering
Open Elective 4/ JOE	
20AOE3005	Introduction to Watson AI
20AOE3006	Robotic Process Automation
20AOE3007	Reinforcement Learning

Students of B.Tech(AIDS) can choose a professional elective and open elective subject from each set whenever they face the CBCS/Electives in their journey.


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Following are 5 sets of professional elective courses offered for CIC students in various semesters.

III-I SEMESTER PROFESSIONAL ELECTIVES	
<u>Elective1</u>	
20APE3601	Software Engineering
20APE3602	Distributed Database
20APE3603	Automata Theory and Compiler Design
III-II SEMESTER PROFESSIONAL ELECTIVES	
<u>Elective2</u>	
20APE3604	Mobile Application Development
20APE3605	Real time Operating System
20APE3606	Design and Analysis of Algorithms
IV-I SEMESTER PROFESSIONAL ELECTIVES	
<u>Elective3</u>	
20APE3007	Natural Language Processing
20APE3008	Intelligent Information Retrieval Systems
20APE3009	Health Care Analytics
<u>Elective4</u>	
20APE3010	Applications of Ai
20APE3011	Virtual Reality
20APE3012	Computer Vision
<u>Elective 5 (MOOCS-2)</u>	
20APE3013	Quantum Computing
20APE3014	Cyber Security
20APE3015	Deep Learning


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III-I SEMESTER OPEN ELECTIVES	
<u>Elective1</u>	
20AOE9926	Mathematical Modeling and Simulation
20AOE0303	Optimization Techniques
20APC0213	Control Systems
III-II SEMESTER OPEN ELECTIVES / JOB ORIENTED ELECTIVE (MOOCs)	
<u>Open Elective2 / JOE 1</u>	
20AJOE3601	Introduction to Machine Learning (noc23_cs18)
IV-I SEMESTER OPEN ELECTIVES	
<u>Open Elective3/ JOE</u>	
20AOE3604	Blockchain Technologies and Use Cases
20AOE3605	Cryptocurrencies
20AOE3606	Fundamentals Bit Coin Technology
<u>Open Elective 4/ JOE</u>	
20AOE3607	Programming for the Internet of Things Project
20AOE3608	Cyber security and its 10 domains
20AOE3609	Blockchain Applications and Limitation

Students of B.Tech(CIC) can choose a professional elective and open elective subject from each set whenever they face the CBCS/Electives in their journey.


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