

**CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT
ANDHRA PRADESH**

Programme	Stream/Branch	Course type (Foundation/Basic/ Core/Smart/Special isation/Domain/Ski	Course Title	Credit	Type (T+P+Pj)
BTech	All	Foundation	Differential Equations and Laplace Transforms	3	2+0+1
BTech	All	Foundation	Linear Algebra & Vector Calculus	3	2+0+1
BTech	All	Foundation	Complex Analysis, Numerical Methods	3	2+0+1
BTech	All	Foundation	Discrete Mathematics	3	2+0+1
BTech	All	Foundation	Probability & Statistics	3	2+0+1
BTech	All	Foundation	Mechanics for Engineers	3	2+1+0
BTech	All	Foundation	Optics and Optical Fibres	3	2+1+0
BTech	All	Foundation	Applied Analytical Chemistry	3	2+1+0
BTech	All	Foundation	Applied Engineering Materials	3	2+0+1
BTech	All	Humanities and Management(A)	Optimisation Techniques	2	0+2+0
BTech	All	Humanities and Management(A)	Engineering Economics and Costing	3	2+0+1
BTech	All	Humanities and Management(A)	Project Management	3	2+0+1
BTech	All	Humanities and Management(A)	Gender, Human Rights and Ethics	3	1.5+0+1.5
BTech	All	Humanities and Management(A)	Climate Change and Sustainable Development	3	1.5+0+1.5
BTech	All	Humanities and Management (B)	Job Readiness	6	

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			<i>A: 6 credit (Choice), B: 6 credit (Compulsory)</i>		
BTech	All	Smart	Industrial IOT and Automation	6	3+2+1
BTech	All, MSc Maths	Smart	Data Analysis and Visualisation using Python	4	1+1+2
BTech	All, MSc Maths	Smart	ML with Python	4	1+2+1
BTech	All	Smart	Robotic automation with ROS and C++	4	1+2+1
BTech	All	Smart	Design Thinking	2	0+0+2
BTech	All	Smart	System Integration with DYMOLA	2	0+0+2
BTech	All	Smart	Smart Engineering Project (G2M)	3	0+0+3
BTech	CSE	Core	IT Infrastructure Management	6	2--2--2
BTech	CSE	Core	Cloud Computing	2	0--2--0
BTech	CSE	Core	Wireless Networks	3	2--2--0
BTech	CSE	Core	Information Security	3	2--2--0
BTech	CSE/ECE/EEE	Core	OOPs with C ++ Programming	4	1--2--1
BTech	CSE/ECE/EEE	Core	Data Structures using C	4	1--2--1
BTech	CSE/ECE/EEE	Core	Advanced Web Programming	4	1--2--1
BTech	CSE/ECE/EEE	Core	Java Technologies	4	2--1--1
BTech	CSE	Core	Operating System Concepts	3	1--1--1
BTech	CSE	Core	Database Creation and Maintenance	4	2--1--1
BTech	CSE	Core	Database Cluster Administration and Security	4	2--2--0
BTech	CSE	Core	Data Warehousing and Data Mining	4	2--2--0
BTech	CSE	Core	Android App Development	6	2--2--0
BTech	CSE	Core	Mathematical Problem Solving	4	2--2--0
BTech	CSE	Core	Formal Language and Automata Theory	3	2--1--0

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BTech	ECE/EEE	Core	Embedded System Design Using ARM Cortex	6	3+2+1
BTech	ECE/EEE	Core	VLSI Design	6	3+2+1
BTech	ECE	Core	Electro Magnetic Compatability	3	2+0+1
BTech	ECE/EEE	Core	Elector Magnetic Field Theory and Transmission Line	3	2+1+0
BTech	ECE/EEE	Core	Network Analysis	3	2+1+0
BTech	ECE	Core	Digital Communication Systems	3	2+1+0
BTech	ECE	Core	Analog Communication Systems	3	2+1+0
BTech	ECE	Core	Electronic Devices and Systems	3	2+1+0
BTech	ECE	Core	Principles of Wireless Communications	3	2+1+0
BTech	ECE	Core	Digital Signal & Image Processing	3	2+1+0
BTech	ECE	Core	Antenna Design and Analysis	3	2+1+0
BTech	ECE	Core	Wireless Communication for IIOT	3	2+1+0
BTech	CIVIL/MECHANICAL/AE ROSPACE/BIOTECH/MI NING		Programming in Java/Java Technologies	3	2+1+0
BTech	CIVIL/MECHANICAL/AE ROSPACE/BIOTECH/MI NING		Database Management Systems	3	2+1+0
BTech	CIVIL/MECHANICAL/AE ROSPACE/MINING/Ag. Engg	Core	Theories of Failure Analysis using FEA	4	2+2+0
BTech	MECHANICAL	Core	Computer Aided Drafting	3	0+2+1
BTech	MECHANICAL	Core	Product Design and Development	2	1+1+0
BTech	MECHANICAL	Core	Reverse Engineering/Rapid Prototype	3	1+2+0
BTech	MECHANICAL	Core	Product Life Cycle Management	2	0+1+1

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BTech	MECHANICAL	Core	Manufacturing Process-process planning and Heat	3	2+1+0
BTech	MECHANICAL	Core	Material in product design and development	2	1+1+0
BTech	MECHANICAL/CIVIL	Core	Computer Aided Engineering	3	0+2+1
BTech	MECHANICAL	Core	Quality Assurance	2	1+1+0
BTech	MECHANICAL	Core	Applied Ergonomics	1	0+0+1
BTech	MECHANICAL	Core	Computer Aided Manufacturing	2	0+2+0
BTech	MECHANICAL	Core	CNC Programming & CNC Machining	2	0+2+0
BTech	MECHANICAL	Core	Design of Tools, Jigs and Fixtures	3	2+1+0
BTech	MECHANICAL	Core	Advance Metrology	2	1+1+0
BTech	MECHANICAL	Core	Micro Electro Mechanical System	2	1+1+0
BTech	MECHANICAL/AEROSP ACE/Ag. Engg	Core	Thermodynamics	3	2+1+0
BTech	MECHANICAL/CIVIL/AE ROSPACE/Ag. Engg	Core	Fluid Mechanics with FVM	3	2+1+0
BTech	MECHANICAL/CIVIL/Ag . Engg	Core	Hydraulic Machinery	2	1+1+0
BTech	MECHANICAL/Ag. Engg	Core	Theory of Machines	3	2+1+0
BTech	MECHANICAL/Ag. Engg	Core	Heat Transfer with FDM/FVM	3	2+1+0
BTech	MECHANICAL/MBA	Core	Optimisation Techniques	2	0+2+0

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Group A : Agriculture/ Agri Engineering/Phyto pharma/ Dairy tech/ Fisheries/ Biological sciences Group B: All other engineering/physical and mathematical science/vocational or skills Group C: Pharmacy and Allied Health Group D: Management & Media and Communication					
CUTM	A/B/D	Domain	Data Science and Machine Learning		
CUTM	A/B	Domain	Software Technology	20	0+7+13
CUTM	B	Domain	Cloud Technology	22	6+10+6
CUTM	B	Domain	Cyber Security		
CUTM	B	Domain	Embedded Systems	18	3+9+6
CUTM	A/B/D	Domain	AR & VR		
CUTM	B	Domain	Chip Design and Fabrication using VLSI	19	6+7+6
CUTM		Domain	Communication Systems	18	4+8+6
CUTM	B	Domain	Operation and Maintenance of Electrical Grid System	24	
CUTM	B	Domain	Industrial Automation	30	8+12+6+4
CUTM	A/B	Domain	Aerial Surveying and Remote Sensing Applications	18	4+10+4
CUTM	A/B	Domain	Construction Planning Monitoring and Project	17	4+6+7
CUTM	A/B	Domain	Architectural and Structural Design		
CUTM	A/B	Domain	Composite Design and Manufacturing	28	6+12+10
CUTM	A/B/D	Domain	GO-TO-MARKET	22	4+10+8
CUTM	A/B	Domain	Manufacturing (Conventional, CNC and Additive)		
CUTM	A/B	Domain	Welding and Inspection	21	7+8+6
CUTM	A/B	Domain	Automobile Engineering	24	7+7+6+4
CUTM	A/B	Domain	Renewable Energy	23	5+8+6+4

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CUTM	A/B/D	Domain	Data Analytics- Visualisation	22	0+16+6
CUTM	A/B/D	Domain	Business Analytics	30	10+6+14
CUTM	A/B/C/D	Domain	Computational Fluid Dynamics	20	2+9+9
CUTM	A/B	Domain	Smart Farm Machinery	26	6+9+11
CUTM	B	Domain	Digital Twins and Simulation using 3D Epxerience		
CUTM	B	Domain	Smart BIM and Smart Infrastructure		
CUTM	B	Domain	Digital Manufacturing using 3D Experience Platform		
CUTM	A/B	Domain	Dairy Processing and Development	30	3+15+12
CUTM	A/B/C	Domain	New Material Devlopment using Biovia Material Studio		
CUTM	A/C	Domain	Drug Discovery using BIOVIA	29	3+6+20
CUTM	A/B	Domain	SMART Agriculture	29	3+6+20
CUTM	A/B	Domain	Protected Horticulture	29	3+15+11
CUTM	A/B	Domain	Soil and Water Conservation through Watersheds		
CUTM	A/B/D	Domain	Food Processing	29	3+15+11
CUTM	A/B/D	Domain	Agri Business Management	23	2+0+21
CUTM	A/B/D	Domain	Commodity and Food Storage	29	6+12+11
CUTM	A/B/D	Domain	Manufacturing Mangement		
B.Optometr		Core	Visual Optics –I	6	4+2+0
B.Optometr		Core	Optometric Optics –I	4	3+1+0
B.Optometr		Core	Ocular Diseases –I	3	2+0+1
B.Optometr		Core	Ocular Microbiology & Pathology	3	2+0+1
B.Optometr		Core	Clinical Examination Of Visual System Lab	2	0+2+0
B.Optometr		Core	Binocular Vision and Squient	6	3+2+1

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B.Optometr		Core	Contact Lens	6	3+2+1
B.Optometr		Core	Low Vision Aid	5	3+2+0
B.Optometr		Core	Contact Lenses-II	5	3+2+0
B.Optometr		Core	Binocular Vision –I	5	3+2+0
B.Optometr		Core	Low Vision & Rehabilitation	4	3+1+0
B.Optometr		Core	Basic & Ocular Pharmacology	3	2+0+1
B.Sc.RIT		Core	Applied Radiation Physics & Radiation Protection	4	3+0+1
B.Sc.RIT		Core	Radiographic Technique - 1	6	4+2+2
B.Sc.RIT		Core	Basic Equipment in Radiotherapy	4	3+0+1
B.Sc.RIT		Core	Mammography and Ultrasound	4	3+0+1
B.Sc.RIT		Core	Applied Equipment of Radio Diagnosis	4	3+0+1
B.Sc.RIT		Core	Computerized Tomography (CT Scanning) Method &	4	3+0+1
B.Sc.RIT		Core	Basic of Magnetic Resonance Imaging	4	3+0+1
B.Sc.RIT		Core	Image Interpretation of X-Ray Mammography, CT & MRI	6	4+2+2
B.Sc.RIT		Core	Orientation in Clinical Sciences Course Contents	4	3+0+1
B.Sc.RIT		Core	Physics of CT & MRI	4	3+0+1
All	All	Skill	Apparel Production & Marketing	4	0+3+1
All	All	Skill	Line Stitching Supervising	4	0+3+1
All	All	Skill	Apparel Production	4	0+3+1
All	All	Skill	Light Motor Vehicle Driving	4	0+3+1
All	All	Skill	CNC Programming (CAM)	4	0+3+1
All	All	Skill	Design Supervising	4	0+3+1

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All	All	Skill	Introduction to Composite Manufacturing	4	0+3+1
All	All	Skill	Precast Concrete Manufacturing	4	0+3+1
All	All	Skill	Introduction to Blender and Unity tools	4	0+3+1
All	All	Skill	Refraction Technology	4	0+3+1
All	All	Skill	Emergency Medical Technicnology	4	0+3+1
All	All	Skill	Medical Lab Technology	4	0+3+1
All	All	Skill	Operating Theatre Technology	4	0+3+1
All	All	Skill	Radiology Technology	4	0+3+1
All	All	Skill	Phlebotomy Technology	4	0+3+1
All	All	Skill	First Aid Service	4	0+3+1
All	All	Skill	General Duty Assistance Service	4	0+3+1
All	All	Skill	X- ray Technology	4	0+3+1
All	All	Skill	Wantrepreneur to Entrepreneur	4	0+3+1
All	All	Skill	Retail Sales	4	0+3+1
All	All	Skill	Basketball	4	0+3+1
All	All	Skill	Gym Fitness	4	0+3+1
All	All	Skill	Swimming	4	0+3+1
All	All	Skill	Beauty Therapy	4	0+3+1
All	All	Skill	Yoga & Meditation	4	0+3+1
All	All	Skill	Solar PV Installation	4	0+3+1
All	All	Skill	Fruit processing with dryers	4	0+3+1
All	All	Skill	Introduction to Block Chain Technology	4	0+3+1
All	All	Skill	Introduction to Nutraceuticals	4	0+3+1

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All	All	Skill	Introduction to NLP	4	0+3+1
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