1.2.2 - Additional Information - List of Electives Offered (Data for the latest completed academic year)

Name of Programmes adopting elective course system	Course Code	Course Name	Course Type
B.E AERONAUTICAL ENGINEERING	AE16901	Aircraft Rules and Regulations	Open Elective
	AE16902	Wind Power Engineering	
	AE16903	Aircraft Safety	
	AE16904	Active Control Technology	
	AE16911	Corrosion Of Aerospace Materials	
	AE16912	Design of Flight Control System	
	AE16913	Satellite Technology	
	AE16914	Mathematical Methods in Modern Aviation	
	AE16151	Principles of UAV and MAV	Professional Elective
	AE16152	Experimental Stress Analysis	
	AE16153	Aircraft Communication And Navigation System	
	AE16154	Air Traffic control and Planning	
	AE16251	Industrial Aerodynamics	
	AE16252	Experimental Aerodynamics	
	AE16253	Hypersonic Aerodynamics	
	AE16254	Wind Tunnel Techniques	
	AE16351	Aero Engine Repair and Maintenance	
	AE16352	Aviation Fuels and Combustion	
	AE16353	Airframe Repair and Maintenance	
	AE16354	Fatigue and Fracture	
	AE16451	Human Resource Management	
	AE16452	Aviation Maintenance Management	
	AE16453	Entrepreneurship Development	
	AE16454	Crisis Management in Aircraft Industry	
B.E.AGRICULTURE ENGINEERING	AI16901	Energy Management in Agriculture	Open Elective
	AI16902	Climate Change and Adaptation	
	AI16903	Professional Ethics in Agriculture Engineering	
	AI16904	Engineering	
	AI16905	Agricultural Waste Management	
	AI16906	Ergonomics and Safety in Agriculture Engineering	
	AI16907	Automation in Irrigation	
	AI16908	Forest Resource Management	
	AI16151	Industrial Safety Management	Professional Elective
	AI16152	Farm Power and Machinery Management	
	AI16153	Watershed Management	
	BA16451	Entrepreneurship Development	
	AI16251	Seed Production Technology	
	AI16252	Landscape Design and Site Planning	
	AI16253	Energy and Environmental Auditing and its Management	
	AI16254	On-Farm Water Management	
	AI16351	Organic Farming Technologies	
	AI16352	Micro Irrigation Systems	
	AI16353	Mechanics of Tillage and Traction	
	AI16354	Agricultural Business Management	
	AI16451	Horticulture Crop Process Engineering	

	AI16452	Disaster Management	
	AI16453	Special Farm Machinery and Equipments	
	AI16454	Renewable Energy Resources and Technology	
B.E CIVIL ENGINEERING	CE16901	Building Services	Open Elective
	CE16902	Contract Laws and Regulations	
	CE16903	Architecture	
	CE16904	Smart Structures and Smart Materials	
	CE16905	Remote Sensing Techniques and GIS	
	CE16906	Computer Aided Design of Structures	
	CE16907	Disaster Management	
	CE16908	Finite Element Techniques	
	CE16909	Engineering Economics and Cost Analysis	
	CE16910	Environmental Impact Assessment	
	CE16151	Hydrology and Water Resources Engineering	Professional Elective
	CE16152	Total Station and GPS Surveying	
	CE16153	Construction Planning and Scheduling	
	CE16154	Air pollution and Control Engineering	
	CE16155	Coastal Engineering	
	CE16251	Industrial Waste Water Engineering	
	CE16252	Traffic Engineering and Management	
	CE16253	Municipal Solid Waste Management	
	CE16254	Railways, Airports and Harbour Engineering	
	MA16751	Operations Research	
	CE16351	Power plant Structures	
	CE16352	Bridge Structures	
	CE16353	Maintenance, Repair and Rehabilitation of Structures	
	BA16253	Total Quality Management	
	BA16151	Professional Ethics And Human Values	
	CE16451	Ground Improvement Techniques	
	CE16452	Prefabricated Structures	
	CE16453	Industrial Structures	
	CE16454	Tall Structures	
	CE16455	Introduction to Soil Dynamics and Machine	
B.E - COMPUTER SCIENCE AND ENGINEERING	CS16901	R and Python Programming	Open Elective
	CS16902	Fundamentals of Database System	
	CS16903	E - Commerce	
	CS16904	Green Computing	
	CS16905	Web Content Development	
	MA16151	Discrete Mathematics	Professional Elective
	CS16151	XML and Web Services	
	BA16254	Principles of Management	
	CS16152	Big Data Analytics	
	CS16153	Parallel Computing	
	CS16251	Semantic Web	
	CS16252	Wireless Sensor Networks	
	CS16253	Data Science	
	CS16254	Internet of Things	
	BA16351	Engineering Economics and Financial Accounting	
	CS16351	Advanced Database Technology	

	CS16352	Ad-hoc Networks	
	CS16353	Graph Theory and Applications	
	CS16354	User Interface Design	
	CS16355	Distributed Systems	
	CS16451	Agile Software Development	
	CS16452	Service Oriented Architecture	
	CS16453	Digital Image Processing	
	CS16454	Soft Computing	
	BA16451	Entrepreneurship Development	
	CS16551	Software Testing	
	CS16552	Robotics	
	CS16553	Machine Learning	
	CS16554	Mobile Computing	
	MA16851	Resource Management Techniques	
B.E-ELECTRONICS AND COMMUNICATION ENGINEERING	EC16901	Microcontroller Based System Design	**Open Elective**
	EC16902	Biomedical Instrumentation	
	EC16903	5G Technology	
	EC16904	Radar and Navigational aids	
	EC16904	PLC and DCS	
	EC16904	Nano Scale Devices	
	EC16907	Automotive Electrical and Electronics System	
	EC16151	Transmission Lines and Wave Guides	**Professional Elective**
	EC16152	Information Theory	
	IT16403	Operating Systems	
	MA16501	Numerical Methods	
	EC16251	Wireless Sensor Networks	
	EC16252	Digital Switching and Transmission Systems	
	EC16253	Advanced Microprocessors	
	BA16253	Total Quality Management	
	EC16351	Digital Image Processing	
	EC16352	Speech Processing	
	EC16353	Electromagnetic Interference and Compatibility	
	EC16354	Telecommunication System modeling and simulation	
	EC16451	Television Signal Processing and Display Systems	
	EC16452	Space Time Communication	
	EC16453	Web Technology	
	EC16454	Biosignal Processing	
	EC16551	Optoelectronic Devices	
	EC16552	Micro-Electro-Mechanical Systems	
	EC16553	Mobile Operating Systems	
	EC16554	Multimedia Compression and Communication	
	EC16651	Medical Electronics	
	EC16652	Cellular and Mobile Communication	
	EC16653	RF Microelectronics	
	EC16654	Virtual Instrumentation	

B.E- ELECTRICAL AND ELECTRONICS ENGINEERING	EE16901	Micro Electro Mechanical System	**Open Elective**
	EE16902	Industrial Robotics	
	EE16903	Soft Computing Techniques	
	EE16904	Wind and Solar Energy Systems	
	EE16905	Embedded System Design	
	EE16906	Solar and Wind Energy Engineering	
	EE16151	Bio Medical Engineering	**Professional Elective**
	EE16152	Electrical Safety	
	EE16153	Digital Control Engineering	
	EE16154	Nano Science	
	EE16155	Network Analysis and Synthesis	
	EE16251	VLSI Design and Circuits	
	EE16252	Power System Dynamics	
	EE16253	Flexible AC Transmission System	
	EE16254	Optoelectronic Devices	
	MA16153	Operations Research	
	EE16351	EHV AC and DC Transmission	
	EE16352	Energy Auditing	
	EE16353	High Voltage Engineering	
	EE16354	Computer Networks	
	EE16355	Design with PIC Microcontroller	
	EE16451	Testing and Commission of Electrical Equipments	
	EE16452	Power Quality	
	EE16453	Virtual Instrumentation	
	EE16454	Computer Aided Design of Electrical Machines	
	BA16253	Total Quality Management	
B.E - MECHANICAL ENGINEERING	ME16901	Renewable Energy Sources	**Open Elective**
	ME16902	Quality Control and Reliability Engineering	
	ME16903	Industrial Psychology and Work Ethics	
	ME16904	Energy Conservation and Management	
	ME16905	Safety Engineering and Environmental Systems	
	ME16906	Plant Layout and Material Handling	
	ME16151	Unconventional Machining Processes	**Professional Elective**
	ME16152	Rapid Prototyping	
	ME16153	Theory of Metal Forming	
	ME16154	Solar Energy System	
	ME16155	Foundry Technology	
	ME16251	Maintenance Engineering	
	ME16252	Non-Destructive Evaluation Techniques	
	ME16253	Design of Jigs, Fixtures and Press Tools	
	ME16254	Micro Electro Mechanical Systems	
	ME16255	CNC Technology	
	ME16351	Productivity Management and Re-Engineering	
	ME16352	Tool Design	
	ME16353	Welding Technology	
	ME16354	Composite Materials and Mechanics	
	BA16451	Entrepreneurship Development	
	ME16451	Production Planning and Control	

	ME16452	Refrigeration and Air Conditioning	
	ME16453	Industrial Tribology	
	ME16454	Advanced I.C. Engines	
	BA16352	Engineering Economics	
B.E - MECHATRONICS	MT16901	Industrial Engineering	**Open Elective**
	MT16902	Mechatronics	
	MT16903	Micro Electro Mechanical Systems	
	MT16904	Biomedical Instrumentation	
	MT16905	Non-Destructive Testing	
	MT16906	Vetronics	
	MT16907	Industrial Automation	
	MT16908	Advanced Manufacturing Management	
	MT16909	Intelligent Manufacturing Technology	
	MT16910	Nano Technology	
	MT16151	Advanced Manufacturing Processes	**Professional Elective**
	MT16152	Digital Signal Processing	
	MT16153	Diagnostic Techniques	
	MT16154	Modelling and Simulation in Engineering	
	MT16155	Product Design and Costing	
	MT16251	Engineering Economics and Cost Analysis	
	MT16252	Additive Manufacturing	
	MT16253	Embedded System Design	
	MT16254	Design of Jigs, Fixtures and Press Tools	
	IT16255	Computer Networks	
	MT16351	Mechatronics Systems Design	
	MT16352	Finite Element Analysis	
	MT16353	Non-Traditional Machining Processes	
	MT16354	Industrial Electronics and Applications	
	BA16254	Principles of Management	
	MT16451	Computational Fluid Dynamics	
	MT16452	Advanced Sensor Technology	
	MT16453	Renewable Energy Sources	
	BA16253	Total Quality Management	
	IT16456	Database Management Systems	
	MT16551	Intellectual Property Rights	
	MT16552	Artificial Intelligence	
	MT16553	Concepts of Engineering Design	
	MT16554	Internal Combustion Engines	
	MT16555	Flexible Manufacturing Systems	
B.E. - BIOMEDICAL ENGINEERING	BM16902	Industrial Nanotechnology	**Open Elective**
	BM16903	Basics of Microscopy	
	BM16904	Introduction to Data science	
	BM16905	Disaster Management	
	BM16151	Biomedical Informatics	**Professional Elective**
	BM16152	Virtual Bioinstrumentation	
	BM16153	BioMEMS	
	BM16154	Medical Optics	
	BM16251	Telemedicine and PACS	
	BM16252	Biomedical Laser Instruments	
	BM16253	Pattern Recognition and Neural Networks	

DEAN - ACADEMICS
Paavai Engineering College
NH-44, Pachal Post, Namakkal Dist.

PRINCIPAL,
PAAVAI ENGINEERING COLLEGE.
NH-7, PACHAL Post, Namakkal Dt

	BM16254	Advanced Bioanalyical and Therapeutic techniques	
	BM16351	Tissue Engineering	
	BM16352	Rehabilitation Engineering	
	BM16353	Design and Development of Medical Devices	
	BM16354	Nanotechnology and Applications	
	BM16451	Biometric Systems	
	BM16452	Medical EthicsStandards and Safety	
	BM16453	Advanced Healthcare System Design	
	BM16454	Advanced Medical Imaging Systems	
	BM16551	Artificial Organs and Implants	
	BM16552	Embedded Systems and IoT in Healthcare	
	BM16553	Physiological Modeling	
	BM16554	Robotics and Automation in Medicine	
	BM16651	Virtual Reality in Medicine	
	BM16652	Wearable Systems	
	BM16653	Quality Control in Biomedical Engineering	
	BM16654	Medical Radiation Safety	
	BM16751	Medical Waste Management	
	BM16752	Advanced Biomedical Instrumentation	
	BM16753	Telehealth Technology	
	BM16751	Brain Computer Interface	
B.E.-MEDICAL ELECTRONICS	MD16901	Biomedical Equipments	**Open Elective**
	MD16902	Basics of Bioinformatics	
	MD16903	Product design and development	
	MD16904	Analytical Methods and Instrumentation	
	MD16151	Robotics and Automation	**Professional Elective**
	MD16152	Neural Network and its applications	
	MD16153	Bio MEMS	
	MD16154	Nano Technology and its applications	
	MD16251	VLSI Design	
	MD16252	Pattern Recognition	
	MD16253	Medical Expert Systems	
	MD16254	Introduction to Cloud Computing	
	MD16351	Medical Devices Regulations	
	MD16352	Fundamentals of Nano science	
	MD16353	Physiological System Modelling	
	MD16354	Medical Ethics and Safety	
	MD16451	Smart Wearable Systems	
	MD16452	Advanced Medical Instrumentation Technology	
	MD16453	Deep Learning	
	MD16454	Introduction to Mobile App Development	
	MD16551	Body Area Network	
	MD16552	Multimedia Applications	
	MD16553	Telehealth Technology	
	MD16554	Embedded Systems and Internet of Things in Healthcare	
	MD16651	Virtual Instrumentation	
	MD16652	Digital Video Processing	
	MD16653	Biosensors	
	BMD16654	Brain Computer Interface and its Applications	

B.TECH-CHEMICAL ENGINEERING	CM16901	Solid Waste Management	**Open Elective**
	CM16902	Industrial Wastewater Treatment	
	CM16903	Corrosion Engineering	
	CM16904	Process Instrumentation	
	CM16151	Biochemical Engineering	**Professional Elective**
	CM16152	Drugs and Pharmaceutical Technology	
	CM16153	Pulp and Paper Technology	
	CM16154	Fundamentals of Nano science	
	CM16251	Oil and Natural Gas Engineering	
	CM16252	Polymer Technology	
	CM16253	Food Technology	
	CM16254	Green Chemistry and Engineering	
	CM16351	Fertilizer Technology	
	CM16352	Process Optimization	
	CM16353	Computational Fluid Dynamics	
	CM16354	Piping Engineering	
	CM16451	Process Modelling and Simulation	
	CM16452	Modern Separation Processes	
	CM16453	Petroleum Refining Engineering	
	BA16253	Total Quality Management	
B.TECH-INFORMATION TECHNOLOGY	IT16901	Green Computing	**Open Elective**
	IT16902	Information Technology Essentials	
	IT16903	Open Source Technologies	
	MA16151	Discrete Mathematics	**Professional Elective**
	IT16151	Theory of Computation	
	IT16152	Information Coding Techniques	
	IT16153	User Interface Design	
	IT16154	Artificial Intelligence	
	IT16251	Open Source Software	
	IT16252	Distributed Systems	
	BA16351	Engineering Economics and Financial Accounting	
	IT16253	TCP/IP Protocol Design and Implementation	
	IT16254	System Software	
	IT16351	Adhoc and Sensor Networks	
	IT16352	C# And .Net Framework	
	IT16353	Software Quality Assurance	
	IT16354	Big Data and Analytics	
	IT16355	Internet of Things	
	IT16451	J2EE	
	IT16452	Agile Software Development	
	IT16453	Machine Learning	
	IT16454	Software Testing	
	IT16455	Soft Computing	
	IT16551	Digital Enterprise Resource Planning	
	IT16552	Service Oriented Architecture	
	IT16553	Foundations of Blockchain Technology	
	IT16554	Social Network Analysis	
	BA16253	Total Quality Management	

DEAN - ACADEMICS
Paavai Engineering College
NH-44, Pachal Post, Namakkal Dist.

PRINCIPAL,
PAAVAI ENGINEERING COLLE___
'4-7. PACHAL Post, Namakkal D·

B.TECH-FOOD TECHNOLOGY	FT16901	Fundamental of Food Processing	**Open Elective**
	FT16902	Food Chemistry of Macronutrients	
	FT16153	Food additives and nutraceuticals	**Professional Elective**
	FT16151	Milling Technology	
	FT16152	Technology of Fats and Oils	
	FT16154	Bioprocess Engineering	
B.TECH-PHARMACEUTICAL TECHNOLOGY	PT16509	Herbal Technology	**Open Elective**
	PT16510	Technology of Fine Chemicals and Bulk Drugs	
	PT16506	Basic Laboratory Animal Science	**Professional Elective**
	PT16507	Fundamentals of Material Science and Engineering	
	PT16508	Technology of Semisolid Dosage Forms	
	BA16G06	Disaster Management	
	PT16606	Biological Spectroscopy	
	PT16607	Fundamentals of Polymer Science and Engineering	
	PT16608	Validation in Pharmaceutical Industries	
	PT16609	Fundamentals of Nanoscience	
M.E - COMPUTER SCIENCE AND ENGINEERING	PMA19901	Operations Research	**Open Elective**
	PCE19901	Business Analytics	
	PED19901	Industrial Safety	
	PSE19901	Cost Management of Engineering Projects	
	PED19902	Composite Materials	
	PED19903	Waste to Energy	
	PCE19151	Data Preparation and Analysis	**Professional Elective**
	PCE19152	Secure Coding	
	PCE19153	Introduction to Intelligent Systems	
	PCE19154	Pattern Recognition	
	PCE19251	Storage Area Network	
	PCE19252	Data Storage Technologies and Network	
	PCE19253	Ethical Hacking	
	PCE19254	Data Virtualization Techniques	
	PCE19351	Knowledge Discovery	
	PCE19352	Secure Software Design and Enterprise Computing	
	PCE19353	Computer Vision	
	PCE19354	Software Design	
	PCE19451	Human and Computer Interaction	
	PCE19452	GPU Computing	
	PCE19453	Digital Forensics	
	PCE19454	Advanced wireless and mobile networks	
	PCE19551	Mobile Application and Services	
	PCE19552	High Performance Computing	
	PCE19553	Crypto currency and Blockchain Technologies	
	PCE19554	Agile Software Development	
M.E-COMMUNICATION SYSTEMS	PCS19151	Data Compression Techniques	**Professional Elective**
	PCS19152	Electromagnetic Interference and Compatibility in system design	
	PCS19153	Advanced Digital Image Processing	
	PCS19154	MEMS and NEMS	
	PCS19251	Fiber Optic Networks	
	PCS19252	Millimeter Wave Communication	
	PCS19253	Pattern Recognition and Machine Learning	

	PCS19254	Internet of Things	
	PCS19351	Satellite Communication	
	PCS19352	Optimization Techniques	
	PCS19353	Digital Communication Receivers	
	PCS19354	Soft Computing	
	PCS19451	Network Routing Algorithms	
	PCS19452	DSP Processor Architecture and Programming	
	PCS19453	Mobile Communication Systems and Standards	
	PCS19454	Radar Signal Processing	
	PCS19551	Simulation of Communication Systems and Networks	
	PCS19552	Neural Network and Applications	
	PCS19553	Cognitive Radio Networks	
	PCS19554	Digital Communication Techniques	
M.E - ENGINEERING DESIGN	PED19901	Industrial Safety	Open Elective
	PED19902	Composite Materials	
	PED19903	Waste to Energy	
	PCE19901	Business Analytics	
	PMA19901	Operations Research	
	PSE19901	Cost Management of Engineering Projects	
	PED19151	Advanced Machine Design	Professional Elective
	PED19152	Design for Manufacturing and Assembly	
	PMA19153	Mathematical Methods in Engineering	
	PED19153	Rapid Prototyping and Tooling	
	PED19251	Advanced Engineering Materials	
	PED19252	Mechanics of Composite Materials	
	PED19253	Analysis and Synthesis of Mechanisms	
	PED19254	Mechatronics in Manufacturing	
	PED19351	Tribology in Design	
	PED19352	Robotics	
	PED19353	Fracture Mechanics	
	PED19354	Reverse Engineering	
	PED19451	Multi-body Dynamics	
	PED19452	Condition Based Monitoring	
	PED19453	Optimization Techniques in Design	
	PED19454	Design of Hydraulic and Pneumatic systems	
	PED19551	Integrated Manufacturing Systems	
	PED19552	Productivity Management and Re-Engineering	
	PED19553	Theory of Plates and Shells	
	PED19554	Plasticity and Metal Forming	
M.E POWER SYSTEMS ENGINEERING	PMA19901	Operations Research	Open Elective
	PCE19901	Business Analytics	
	PED19901	Industrial safety	
	PED19902	Composite Materials	
	PED19903	Waste to Energy	
	PSE19901	Cost Management of Engineering Projects	
	PPS19151	Power Electronics for Renewable Energy Systems	Professional Elective
	PPS19152	Smart Grids	
	PPS19153	High Power Converters	
	PPS19154	Wind and Solar Systems	

	PMA19152	Mathematical Methods in Power Engineering	
	PPS19251	Electrical Power Distribution System	
	PPS19252	Analysis and Design of Power Converters	
	PPS19253	Electric and Hybrid Vehicles	
	PPS19351	Restructured Power Systems	
	PPS19352	Advanced Digital Signal Processing	
	PPS19353	Dynamics of Electrical Machines	
	PPS19354	Solar and Energy Storage Systems	
	PPS19451	Advanced Microcontroller Based Systems	
	PPS19452	SCADA System and Application	
	PPS19453	Power Quality	
	PPS19454	Artificial Intelligence and its Application	
	PPS19551	Power System Transients	
	PPS19552	Flexible AC Transmission Systems	
	PPS19553	Industrial Load Modeling and Control	
	PPS19554	System Theory	
	PPS19651	Distributed Generation and Microgrid	
	PPS19652	Soft Computing Techniques	
	PPS19653	Design of Substations	
	PPS19654	Energy Management and Auditing	
M.E STRUCTURAL ENGINEERING	PMA19901	Operations Research	
	PCE19901	Business Analytics	
	PED19901	Industrial safety	**Open Elective**
	PED19902	Composite Materials	
	PED19903	Waste to Energy	
	PSE19901	Cost Management of Engineering Projects	
	PSE19151	Theory of Plates	
	PSE19152	Advanced Concrete Technology	
	PSE19153	Theory of Structural Stability	
	PMA19151	Advanced Mathematical Methods	
	PSE19251	Structural Health Monitoring	
	PSE19252	Smart Structures and Smart Materials	
	PSE19253	Prefabricated Structures	
	PSE19254	Earthquake Resistant Design	
	PSE19351	Advanced Steel Design	
	PSE19352	Design of Formwork	**Professional Elective**
	PSE19353	Design of High Rise Structures	
	PSE19354	Non Linear Analysis of Structures	
	PSE19451	Design of Advanced concrete Structures	
	PSE19452	Design of Sub Structures	
	PSE19453	Experimental Techniques and Model Analysis	
	PSE19454	Design of Industrial Structures	
	PSE19551	Prestressed Concrete Structures	
	PSE19552	Analysis of Laminated Composite Plates	
	PSE19553	Fracture Mechanics	
	PSE19554	Wind and Cyclone Effects on Structures	
MASTER OF BUSINESS ADMINISTRATION	BA19G01	Indian Ethos in Modern Management	
	BA19G02	Corporate Image Building	**Professional Elective**
	BA19G03	Analysis of Managerial Decision	
	BA19M04	International Marketing	

	BA19M05	Digital and Social Media Marketing	
	BA19M06	Marketing Research and Analytics	
	BA19F05	Financial Derivatives	
	BA19F06	International Financial Management	
	BA19H03	Cross Cultural Management	
	BA19H05	Labour Legislations	
	BA19H06	HR Analytics	
	BA19S02	Software Project Management	
	BA19S03	Business Intelligence	
	BA19S04	Big Data Analytics and Data Mining	
	BA19S05	Information Security Management	
	BA19P01	Supply Chain and Logistics Management	
	BA19P02	Process Management	
	BA19P02	Process Management	
	BA19P03	Product Design	
	BA19P04	Lean Management	
	BA19P05	Project Management	
	BA19H05	Labour Legislations	
MASTER OF COMPUTER APPLICATIONS	CA20151	Linux Internals	
	CA20152	Information Security	
	CA20153	Object Oriented Software Engineering	
	CA20154	Advanced Database	
	CA20251	PHP with MySQL	
	CA20252	High Performance Computing	**Professional Elective**
	CA20253	Software Project Management	
	CA20254	Organizational Behavior	
	CA20351	Artificial Intelligence	
	CA20352	Blockchain Technology	
	CA20353	Agile Software Engineering	
	CA20354	Enterprise Resource Planning	

DEAN - ACADEMICS
Paavai Engineering College
NH-44, Pachal Post, Namakkal Dist

PRINCIPAL
PAAVAI ENGINEERING COLLEGE
NH-7 PACHAL Post, NAMAKKAL Dist

Name of Programmes adopting one credit course system	Course Code	Course Name	Course Type
B.E -AERONAUTICAL ENGINEERING	AE16951	Computer Aided Design CATIA	**ONE CREDIT COURSE**
	AE16952	Computer Aided Design CREO	
	AE16953	Computer Aided Design UNIGRAPHICS	
	AE16954	Computer Aided Design AUTOCAD	
	AE16955	Computer Aided Design SOLID WORKS	
	AE16956	Computer Aided Analysis ANSYS	
	AE16957	Computer Aided Analysis HYPERMESH	
	AE16958	Computer Aided Analysis NASTRAN PATRAN	
	AE16959	Computer Aided Analysis MATLAB	
	AE16960	Computer Aided Analysis FLUENT	
	AE16961	Non Destructive Testing	
	AE16962	NPTEL Certification	
	AE16963	UAV and MAV Certification	
	AE16964	NPTEL Certification Advanced Aircraft Maintenance	
B.E - CIVIL ENGINEERING	CE16951	Building Planning and Vaasthu	**ONE CREDIT COURSE**
	CE16952	Advanced Surveying using Total Station	
	CE16953	Building Valuation	
	CE16954	Structural Analysis and Design using Staad Pro	
	CE16955	Building Analysis and Design using E-Tabs	
	CE16956	Building Information Modelling using Revit Architecture	
	CE16957	Project Management using Primavera	
	CE16958	Tekla Structures	
	CE16959	Finite Element and Structural Analysis using NISA	
B.E - COMPUTER SCIENCE AND ENGINEERING	CS16951	Amcat (Online Placement Aptitude Certification)	**ONE CREDIT COURSE**
	CS16952	e-litmus (Online Placement Aptitude Certification)	
	CS16953	Nasscom nac-tech (Online Placement Aptitude Certification)	
	CS16954	I-pat (Online Placement Aptitude Certification)	
	CS16955	NPTEL / Swayam (Online courses)- Software Engineering	
	CS16956	NPTEL- Artificial Intelligence Search Methods for Problem Solving	
	CS16957	NPTEL-Computer Networks and Internet Protocol	
	CS16958	NPTEL-The joy of computing using python	
	CS16959	NPTEL-Programming in C++	
	CS16960	NPTEL-Programming, data structures and algorithm using python	
	CS16961	NPTEL-Machine Learning	
	CS16962	NPTEL-Introduction to Internet of Things	
	CS16963	Spoken Tutorial -Advanced C++	
	CS16964	Spoken Tutorial- Java Business Application	
	CS16965	Spoken Tutorial -Linux and Ubuntu	
	CS16966	Spoken Tutorial -BOSS Linux	
	CS16967	Spoken Tutorial -PHP and MySQL	
	CS16968	Oracle -SQL fundamentals	
	CS16969	Oracle -Java Fundamentals	
	CS16970	CCNA -Certification	
	CS16971	SCJP / OCPJP -Sun Certified Java Programmer/ Oracle Certified Professional Java Programmer	
	CS16972	Android application Development	
	CS16973	PC Hardware and Trouble shooting	
	CS16974	NPTEL-Big Data Computing	
	CS16975	NPTEL-Programming in Java	
	CS16976	NPTEL-Cloud Computing	

DEAN - ACADEMICS
Paavai Engineering College
1-44, Pachal Post, Namakkal Dist.

PRINCIPAL
PAAVAI ENGINEERING COLLEGE
NH-7, PACHAL Post, NAMAKKAL Dist

Name of Programmes adopting one credit course system	Course Code	Course Name	Course Type
	CS16977	NPTEL-Data Mining	
	CS16978	NPTEL-Design and Analysis of Algorithms	
	CS16979	NPTEL-Ethical Hacking	
	CS16980	NPTEL-Practical Machine learning with TensorFlow	
	CS16981	NPTEL-Compiler Design	
	CS16982	NPTEL-Data Science for Engineers	
B.E-ELECTRONICS AND COMMUNICATION ENGINEERING	EC16951	Embedded Programming using ARDUINO	ONE CREDIT COURSE
	EC16952	PC Hardware Assembling and Trouble shooting	
	EC16953	CISCO Certified Network Associate	
	EC16954	Basic Electronic Circuit Design using Multisim	
	EC16955	MATLAB Programming	
	EC16956	Software Defined Radio	
B.E- ELECTRICAL AND ELECTRONICS ENGINEERING	EE16951	Best Maintenance Practices in Low Voltage Switchgear	ONE CREDIT COURSE
	EE16952	Breaker Maintenance Workshop C-Power Air Circuit Breaker	
	EE16953	Electrical Design of Switchgear Assembly	
	EE16954	Power Distribution in Buildings	
	EE16955	Selection and Application of Drives	
	EE16956	Industrial Protection with Numerical Relays	
	EE16957	Creating a Printed Circuit Board	
	EE16958	Supervisory Control and Data Acquisition	
	EE16959	Design of Control Circuits	
B.E - MECHANICAL ENGINEERING	ME16951	Non-Destructive Testing	ONE CREDIT COURSE
	ME16952	CATIA	
	ME16953	CNC Milling	
	ME16954	SOLIDWORKS	
	ME16955	Industrial Robotics	
	ME16956	Industrial Automation	
	ME16957	ANSYS Fluent	
	ME16958	Computer Aided Reverse Engineering	
B.E - MECHATRONICS	MT16951	Maintenance and troubleshooting of hydraulic system	ONE CREDIT COURSE
	MT16952	SCADA certification	
	MT16953	CAD Software - CATIA V5	
	MT16954	PLC programming Certification	
	MT16955	Control of Motors Using Special Drives	
	MT16956	Robot Programming Certification	
	MT16957	Control Panel and Wiring	
B.E. - BIOMEDICAL ENGINEERING	BM16951	Embedded Programming using ARDUINO	ONE CREDIT COURSE
	BM16952	PC Hardware Assembling and Troubleshooting	
	BM16953	Basic Electronic Circuit Design using Multisim	
	BM16954	MATLAB Programming	
	BM16955	Industrial Medical Systems	
	BM16956	Open source programming using Linux	
	BM16957	PCB Design using Cadence EDA Tool	
	BM16958	Digital System Design using VHDL	
B.TECH-CHEMICAL ENGINEERING	CM16951	Introduction to Fuel Cell Technology	ONE CREDIT COURSE
	CM16952	Insight to Hydrogen as Fuel	
	CM16953	Introduction to Petrochemicals	
	CM16954	Corrosion Engineering	
	CM16955	Nanomaterials for Energy and Environmental	
	CM16956	Outline to Biomaterials	
	CM16957	Analysis for Characterization of Nanomaterials	

DEAN - ACADEMICS
Paavai Engineering College
I-44, Pachal Post, Namakkal Dist.

PRINCIPAL
PAAVAI ENGINEERING COLLEGE
NH-7, PACHAL Post, NAMAKKAL Dist

Name of Programmes adopting one credit course system	Course Code	Course Name	Course Type
	CM16958	Pinch technology	
	CM16959	Physical Chemistry Of Polymers	
	CM16960	Polymeric Materials	
	CM16961	Fabrication Of Polymer Materials	
	CM16962	Experiments on Water Analysis	
B.TECH-INFORMATION TECHNOLOGY	IT16951	Amcat (Online Placement Aptitude Certification)	
	IT16952	e-litmus(Online Placement Aptitude Certification)	
	IT16953	Nasscom nas-tech(Online Placement Aptitude Certification)	
	IT16954	I-pat (Online Placement Aptitude Certification)	
	IT16955	NPTEL / Swayam (Online courses)	
	IT16956	Spoken Tutorial -Advanced C++	
	IT16957	Spoken Tutorial- Java Business Application	
	IT16958	Spoken Tutorial -Linux &Ubuntu	
	IT16959	Spoken Tutorial -BOSS Linux	**ONE CREDIT COURSE**
	IT16960	Spoken Tutorial -PHP & MySQL	
	IT16961	Oracle – SQL fundamentals	
	IT16962	Oracle – Java Fundamentals	
	IT16963	CCNA – Certification	
	IT16964	SCJP / OCPJP – Sun Certified Java Programmer / Oracle Certified Professional Java Programmer	
	IT16965	Android application Development	
	IT16966	PC Hardware and Trouble shooting	
	IT16967	Linux System Administration	
	IT16968	Cyber Security	