


K.S.Rangasamy College of Arts & Science (Autonomous), Tiruchengode-637215

**Department of Electronics and Communication
Local/Regional/National/Global**

SEMESTER I

COURSE CODE	COURSE NAME	NEED				REMARKS
		LOCAL	REGIONAL	NATIONAL	GLOBAL	
18UECM101	Core I: Physics of Semiconductor Devices			✓		Construction and characterization of Electronic components
18UECM102	Core II: Digital Electronics			✓		Design and construction of digital circuits
18UMAECA101	Allied I: Algebra and Calculus			✓		Basic Mathematics for electronics students
18UECMP101	Core Practical –I: Semiconductor Devices Lab			✓		VI Characteristics of electronic devices
18UECMP102	Core Practical –II: Digital Electronics Lab			✓		Design and construction of digital circuits



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SEMESTER II

COURSE CODE	COURSE NAME	NEED				REMARKS
		LOCAL	REGIONAL	NATIONAL	GLOBAL	
18UECM201	Core III: Electronic Circuits			✓		Construction and operations of basic electronic circuits
18UECM202	Core IV: Principles of Communication Systems				✓	Fundamentals of communication systems
18UMAECA201	Allied II : Numerical Methods			✓		Basic Mathematics for electronics students
18UECMP201	Core Practical-III: Electronic Circuits Lab			✓		Construction and operations of basic electronic circuits
18UECMP202	Core Practical IV: Communication Lab			✓		Fundamentals of communication systems


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SEMESTER III

COURSE CODE	COURSE NAME	NEED				REMARKS
		LOCAL	REGIONAL	NATIONAL	GLOBAL	
18UECM301	Core V: Microprocessor and Interfacing			✓		8085 Microprocessor programming and interfacing
18UCSECA301	Allied III: Programming in C				✓	Fundamentals of C Programming
18UECMP301	Core Practical –IV: Microprocessor and Interfacing Lab			✓		8085 Microprocessor programming and interfacing
18UCSECAP301	Allied Practical I: Programming in C				✓	Fundamentals of C Programming
18UECSBP301	SBC Practical I: Circuit Simulation Lab		✓			Simulation software for designing electronic circuits
18UECAC301	Add-On Course I: PCB Design	✓				Learning PCB design tools.
18UECNM301	NMEC –I: Computer Systems and Maintenance	✓				Installation and servicing of computers/ Laptops


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SEMESTER IV

COURSE CODE	COURSE NAME	NEED				REMARKS
		LOCAL	REGIONAL	NATIONAL	GLOBAL	
18UECM401	Core VI: ICs and Applications			✓		Various electronic circuits using IC 555 and IC 741.
18UCSECA401	Allied IV : Programming in JAVA				✓	Fundamentals of JAVA Programming
18UECMP401	Core Practical -VI: ICs and Applications Lab			✓		Construction of electronic circuits using IC 555 and IC 741.
18UCSECAP401	Allied Practical -II: Programming in JAVA				✓	Fundamentals of JAVA Programming
18UECSB401	SBC II: Consumer Electronics (100% Internal Evaluation)	✓				Learning the operation domestic electronic equipments.
18UECAC401	Add-On Course II: Computer Hardware Installation and Servicing		✓			Installation and servicing of computers/ Laptops
18UECNM401	NMEC -II: Electronic Gadgets and Maintenance	✓				Learning the operation domestic electronic gadgets.
18ECAL401	Advanced Learners Course I: Digital Signal and Image Processing				✓	Digital signal and image processing for research purpose
18ECAL402	Advanced Learners Course II: Artificial Intelligence				✓	Learning AI for research and development

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SEMESTER V

COURSE CODE	COURSE NAME	NEED				REMARKS
		LOCAL	REGIONAL	NATIONAL	GLOBAL	
18UECM501	Core VII: Computer Networks				✓	Learning Network and internet protocols
18UECM502	Core VIII: Embedded Systems			✓		Design and development of embedded systems
18UECM503	Core IX: Arduino and Internet of Things			✓		Creating Ad-Hoc network
18UECMP501	Core Practical VII: Embedded Systems Lab			✓		Design and development of embedded systems
18UECMP502	Core Practical – VIII: Internet of Things Lab			✓		Designing Ad-Hoc network
18UECEL501	Elective I: Sensors and Transducers			✓		Understand the principles of sensors and transducers
18UECEL502	Elective II: Microwave Communication			✓		Understand the principles of Microwave communication
18UECSB501	SBC III: Electronic Media		✓			Various application services in multimedia
18ECAL501	Advanced Learners Course I: Energy Auditing			✓		Concepts and significance of energy auditing
18ECAL502	Advanced Learners Course II: Electronic Applications in Agriculture	✓				Designing automation equipments for agriculture


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SEMESTER VI

COURSE CODE	COURSE NAME	NEED				REMARKS
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18UECM601	Core X: Mobile and Cellular Communication				✓	Concepts of mobile and cellular communication
18UECM602	Core XI: VLSI Design and VHDL			✓		Basic VHDL programming
18UECM603	Core XII: Biomedical Instrumentation			✓		Understanding the concepts of advanced biomedical instruments
18UECMP601	Core Practical –IX: VHDL Programming & Simulation Lab			✓		Basic VHDL programming
18UECPR601	Project Viva voce	✓				Design and create an electronic project for a specific application
18UECEL601	Elective III: Intelligent Instrumentation				✓	Learning the concepts of intelligent instrumentation
18UECEL602	Elective IV: Robotics				✓	Learning the concepts of robotics
18UECSB601	SBC –IV: PLC and SCADA			✓		Understand the use of PLC in industries and SCADA programming


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