

KUMARAGURU COLLEGE OF TECHNOLOGY, COIMBATORE DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

R2018 CURRICULUM

Total Credits: 151

			SEMESTER	RI							
S. N	Course code	Course Title	Course Mode	L	Т	P	J	С	Periods	СТ	Pre- requisite
1	U18ENI1201	Fundamentals of Communication I	Embedded	2	0	2	0	3	4	HS	Nil
2	U18MAI1201	Linear Algebra and Calculus	Embedded	3	0	2	0	4	5	BS	Nil
3	U18 PHI1200	Engineering Physics	Embedded	3	0	2	0	4	5	BS	Nil
4	U18MEI1201	Engineering Graphics	Embedded	2	0	2	0	3	4	ES	Nil
5	U18CSI1201	Problem Solving and Programming Using C	Embedded	2	0	2	0	3	4	ES	Nil
6	U18INI1300	Engineering Clinics I	<u> </u>					3	5	ES	Nil
			Total					20	27	·	

			SEMESTER	RII							
S. N o	Course code	Course Title	Course Mode	L	Т	P	J	С	Periods	СТ	Pre-requisite
1	U18MAI2101	Advanced Calculus and Laplace Transforms	Embedded	3	0	2	0	4	5	BS	Nil
2	U18ENI2201	English Language Communication II									Nil
3	U18CHI2201	Engineering Chemistry	Embedded	3	0	2	0	4	5	BS	Nil
4	U18EII2201	Foundation in Electrical and Electronics Engineering	Embedded	3	0	2	0	4	5	PC	Nil
5	U18CSI2201	Problem Solving and Programming Using Python	Embedded	2	0	2	0	3	4	ES	U18CSI1201
6	U18INI2300	Engineering Clinics II	Embedded	1	0	0	4	3	5	ES	Nil
	Total 21 28										

			SEMESTER	RIII							
S. N o	Course code	Course Title	Course Mode	L	T	P	J	С	Periods	СТ	Pre- requisite
1	U18EII3201	Analog Electronics	Embedded	3	0	2	0	4	5	PC	U18EII2201
2	U18MAT3103	Numerical methods and Probability	Theory & Tutorial	3	1	0	0	4	4	BS	Nil
3	U18BTI0201	Biology for Engineers	Theory	2	0	2	0	3	4	BS	Nil
4	U18EII3202	Sensors and Measurements	Embedded	3	0	2	0	4	5	PC	Nil
5	U18MET3007	Mechanics and Thermodynamics	Theory	3	0	0	0	3	3	ES	Nil
6	U18INI3300	Engineering Clinics III	Embedded	1	0	0	4	3	5	ES	Nil
			Total					21	26		



KUMARAGURU COLLEGE OF TECHNOLOGY, COIMBATORE DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING R2018 CURRICULUM

Total Credits: 151

			SEMESTE	RIV							
S. N o	Course code	Course Title	Course Mode	L	Т	P	J	С	Periods	СТ	Pre-requisite
1	U18EII4201	Electronic signal conditioning	Embedded	3	0	2	0	4	5	PC	U18EII3201 U18EII3202
2	U18EII4202	Digital Fundamentals and Microprocessor	Embedded	3	0	2	0	4	5	PC	U18EII2201
3	U18EII4203	Analysis and Design of Dynamic Systems	Embedded	3	0	2	0	4	5	PC	U18MAI2101
4	U18EII4004	MEMS and Sensor Design	Theory	3	0	0	0	3	3	PC	U18EII3202
5	U18EII4005	Ancillary support system Theory		3	0	0	0	3	3	PC	Nil
6	6 U18INI4300 Engineering Clinics IV Embedded				0	0	4	3	5	ES	Nil
	Total 21 26										

			SEMESTE	RV							
S. N o	Course code	Course Title	Course Mode	L	Т	P	J	С	Periods	СТ	Pre-requisite
1	U18EII5201	Process dynamics and control	Embedded	3	0	2	0	4	5	PC	U18EII4203
2	U18EII5202	Microcontrollers	Embedded	3	0	2	0	4	5	PC	U18EII4202
3	U18EII5203	Field Instrumentation	Embedded	3	0	2	0	4	5	PC	U18EII3202
4	U18EII5004	Communication and networks	Theory	3	0	0	0	3	3	PC	Nil
5	U18EIE00X X	Professional Elective I	Theory	3	0	0	0	3	3	PE	Nil
6	U18INI5300	Engineering Clinics V	Embedded	1	0	0	4	3	5	ES	Nil
			Total					21	26		

			SEMESTEI	R VI							
S. N o	Course code	Course Title	Course Mode	L	Т	P	J	С	Periods	СТ	Pre-requisite
1	U18EII6201	Industrial Automation	Embedded	3	0	2	0	4	5	PC	U18EII5201U 18EII5203
2	U18EII6202	Digital Signal Processing & Deep learning	Embedded	3	0	2	0	4	5	PC	U18EII4203
3	U18EIE00XX	Professional Elective II	Theory	3	0	0	0	3	3	PE	Nil
4	U18XXO00XX	Open Elective I	Theory	3	0	0	0	3	3	OE	Nil
5	U18EII6003	Comprehension	Theory	2	0	0	0	2	2	OE	Nil
6	U18INT6000	Professional Communication	Theory	3	0	0	0	3	3	HS	Nil



KUMARAGURU COLLEGE OF TECHNOLOGY, COIMBATORE

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

R2018 CURRICULUM

				Tota	l Cred	its: 151
	Total		19	21		

			SEMESTER	VI	[
S. N o	Course code	Course Title	Course Mode	L	T	P	J	С	Periods	СТ	Pre-requisite
1	U18MBT7000	Engineering Economics and financial management	nancial management industry 3 0 0 0 3 3 HS Nil								
2	U18EII7001	Analytical Instrumentation	Theory	3	0	0	0	3	3	PC	U18EII3202
3	U18EII7202	Advanced Control system	Embedded	3	0	2	0	4	5	PC	U18EII5201
4	U18EIE00XX	Professional Elective III/Internship	Theory	3	0	0	0	3	3	PE	Nil
5	U18EIP7703	Design project	Project Only Course	0	0	0	6	3	6	PW	Nil
			Total					16	20		

			SEMESTER	VII	I						
S. N o	N Course code Course Title Course Mode L T P J C Periods CT Pre-requisite										
1	U18EIP8701	Capstone Project	tone Project Project Only Course 0 0 0 24 12 24 Proje ct U18EIP7703							U18EIP7703	
	Total 12 24										

		Professional El	lective – Elec	ctron	ic Au	tom	atio	n		
S. No	Course code	Course Title	Course Mode	L	T	P	J	С	Periods	СТ
1	U18EIE0001	Flexible and Wearable Electronics	Theory	3	0	0	0	3	3	PE
2	U18EIE0002	Lab on a chip	Theory	3	0	0	0	3	3	PE
3	U18EIE0003	VLSI Design	Theory	3	0	0	0	3	3	PE
4	4 U18EIE0004 Robotics technology and flexible automation Theory 3 0 0 0 3 3 PE									PE

Professional Elective – Advanced Instrumentation Course S. **Course code Course Title** J C Periods CT No Mode MEMS Fabrication and 1 U18EIE0005 3 0 0 0 3 3 PΕ Theory sensor design Bio sensors & Medical 2 3 0 U18EIE0006 0 0 3 3 PΕ Theory Instrumentation 3 U18EIE0007 Sensor and Data fusion 3 0 0 0 PΕ Theory 3 3 4 U18EIE0008 3 0 0 0 3 3 PΕ Optical instrumentation Theory



KUMARAGURU COLLEGE OF TECHNOLOGY, COIMBATORE DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING R2018 CURRICULUM

Total Credits: 151

		Professional I	Elective – Pr	ocess	Aut	oma	tion	ļ		
S. N o	Course code	Course Title	Course Mode	L	Т	P	J	С	Periods	СТ
1	U18EIE0009	Fault detection and Diagnosis	Theory	3	0	0	0	3	3	PE
2	U18EIE0010	Advanced Intelligent Controllers	Theory	3	0	0	0	3	3	PE
3	U18EIE0011	Industry 4.0	Theory	3	0	0	0	3	3	PE
4 U18EIE0012 System Identification, modelling and Simulation Theory 3 0 0 0								3	3	PE

		Mandatory Non credit courses			
S.No	Couse Code	Course Title	Course Mode	CT	Sem
1	U18VEP3503	Human Excellence-Family Values	Lab	HS	3
2	U18CHT3000	Environmental Science	Theory	MC	3
3	U18VEP4504	Human Excellence-Professional Values	Lab	HS	4
4	U187INT4000	Indian Constitution	Theory	MC	4
5	U18VEP5505	Human Excellence-Social Values	Lab	HS	5
6	U18VEP6506	Human Excellence-National Values	Lab	HS	6
7	U18VEP7507	Human Excellence-Global Values	Lab	HS	7