KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE
(An Autonomous Institute under Kakatiya University , Warangal)
(Approved by AICTE, New Delhi; Recognised by UGC under 2(f) & 12(B); Sponsored by EKASILA EDUCATION SOCIETY)
Opp : Yerragattu Gutta, Hasanparthy (Mandal), WARANGAL - 506 015, Telangana, INDIA.
काकतीय प्रैद्योगिकी एवं विज्ञान संस्थान, वरंगल - ५०६ ०१५
కాకతీయ సాంకేతిక విజ్ఞాన శాస్త్ర విద్యాలయం, వరంగల్ - ౫౦౬ ౦౧౫
website: www.kitsw.ac.in E-mail: principal@kitsw.ac.in ✆ : +91 9392055211, +91 7382564888

DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING

KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE
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VISION OF THE INSTITUTE

- *To make our students technologically superior and ethically strong by providing quality education with the help of our dedicated faculty and staff and thus improve the quality of human life*

MISSION OF THE INSTITUTE

- *To provide latest technical knowledge, analytical and practical skills, managerial competence and interactive abilities to students, so that their employability is enhanced*
- *To provide a strong human resource base for catering to the changing needs of the Industry and Commerce*
- *To inculcate a sense of brotherhood and national integrity*

DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING

VISION OF THE DEPARTMENT

- *To provide quality education in Electronics & Instrumentation Engineering by nurturing the students with strong technical analytical, practical skills and ethics to make them engineering professional who cater to the societal needs with a high degree of integrity and social concern*

MISSION OF THE DEPARTMENT

- *To provide progressive and quality educational environment with the help of dedicated faculty and staff by fully utilizing the information technology aiming at continuous teaching and learning process*
- *To produce engineering graduates fit for employability with a competence to design, develop, invent and solve instrumentation engineering problems*
- *To make the students ethically strong by inculcating sense of brotherhood*
- *To make the students researches oriented by providing latest technical knowledge and thus cater to the changing needs of industry and commerce*

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)	
UG - ELECTRONICS & INSTRUMENTATION ENGINEERING - EIE	
PROGRAM EDUCATIONAL OBJECTIVES (PEOs)	**Within first few years after graduation**, the **ELECTRONICS & INSTRUMENTATION ENGINEERING** graduates will be able to …
PEO1: Technical Expertise	*build fundamental knowledge, continue developing technical skills within and across disciplines in Electronics & Instrumentation Engineering for productive and successful career maintaining professional ethics*
PEO2: Successful Career	*develop and exercise their capabilities in demonstrating their creativity in engineering practice and team work with increasing responsibility and leadership*
PEO3: Soft Skills and Life Long Learning	*refine their knowledge and skills in attaining professional competence through lifelong learning such as higher education, advanced degrees and professional activities*

PROGRAM OUTCOMES (POs) & PROGRAM SPECIFIC OUTCOMES (PSOs)	
UG - ELECTRONICS & INSTRUMENTATION ENGINEERING - EIE	
PROGRAM OUTCOMES (POs)	**At the time of graduation**, the**ELECTRONICS & INSTRUMENTATION ENGINEERING**graduates will be able to …
PO1: Engineering knowledge	*apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems*
PO2: Problem analysis	*identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences*
PO3:Design/development of solutions	*design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations*
PO4: Conduct investigations of complex problems	*use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions*
PO5: Modern tool usage	*create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations*
PO6:The engineer	*apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal*

and society	*and cultural issues and the consequent responsibilities relevant to the professional engineering practice*
PO7:Environment and sustainability	*understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development*
PO8:Ethics	*apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice*
PO9:Individual and team work	*function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings*
PO10:Communication	*communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.*
PO11:Project management and finance	*demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments*
PO12:Life-long learning	*recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change*
PROGRAM SPECIFIC OUTCOMES (PSOs):	
PSO1	*an ability for immediate professional practice as an Electronics & Instrumentation engineer*
PSO2	*an ability to use fundamental knowledge to investigate new and emerging technologies leading to innovations in the field of Electronic & Instrumentation Engineering*

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B.Tech–
ELECTRONICS &INSTRUMENTATION ENGINEERING

SCHEME OF INSTRUCTIOONS & EVALUTION

(I Semester to VIII Semester)

(Applicable from the Academic Year 2018-19)

DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING
KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE:: WARANGAL – 15
(An Autonomous Institute under Kakatiya University, Warangal)

SCHEME OF INSTRUCTION & EVALUATION

I SEMESTER OF 4-YEAR B.TECH DEGREE PROGRAM

Sl. No	Category	Course Code	Course Title	Periods/week			Credits	Evaluation scheme				
				L	T	P	C	CIE			ESE	Total Marks
								TA	MSE	Total		
1	BSC	U18MH101	Engineering Mathematics - I	3	1	-	4	10	30	40	60	100
2	ESC	U18CS102	Programming for Problem Solving using C	3	-	-	3	10	30	40	60	100
3	BSC	U18CH103	Engineering Chemistry	3	1	-	4	10	30	40	60	100
4	ESC	U18ME104	Engineering Drawing	2	-	4	4	10	30	40	60	100
5	ESC	U18CE105	Engineering Mechanics	3	1	-	4	10	30	40	60	100
6	ESC	U18CS107	Programming for Problem Solving using C Lab	-	-	2	1	40	-	40	60	100
7	BSC	U18CH108	Engineering Chemistry Lab	_	_	2	1	40	-	40	60	100
8	MC	U18CH109	Environmental Studies*	2	_	_	_	10	30	40	60	100
9	MC	U18EA110	EAA*: Sports/Yoga/NSS	-	-	2	_	100	-	100	-	100
			Total:	**16**	**3**	**10**	**21**	**270**	**150**	**420**	**480**	**900**

[L= Lecture, T = Tutorials, P = Practicals & C = Credits]
EAA*: Extra Academic Activity* indicates mandatory non-credit course

Total Contact Periods/Week : 29; Total Credits: 21

DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING
KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE:: WARANGAL – 15
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SCHEME OF INSTRUCTION & EVALUATION

II SEMESTER OF 4-YEAR B.TECH DEGREE PROGRAM

Sl. No	Category	Course Code	Course Title	Periods/week			Credits	Evaluation scheme				
				L	T	P	C	CIE			ESE	Total Marks
								TA	MSE	Total		
1	BSC	U18MH201	Engineering Mathematics - II	3	1	-	4	10	30	40	60	100
2	ESC	U18CS202	Data Structures through C	3	-	-	3	10	30	40	60	100
3	BSC	U18PH203	Engineering Physics	3	1	-	4	10	30	40	60	100
4	HSMC	U18MH204	English for Communication	2	_	2	3	10	30	40	60	100
5	ESC	U18EE205	Basic Electrical Engineering	3	1	-	4	10	30	40	60	100
6	ESC	U18EE206	Basic Electrical Engineering Lab	-	-	2	1	40	-	40	60	100
7	ESC	U18CS207	Data Structures through C Lab	-	-	2	1	40	-	40	60	100
8	BSC	U18PH208	Engineering Physics Lab	_	_	2	1	40	-	40	60	100
9	ESC	U18ME209	Workshop Practice	_	_	2	1	40	-	40	60	100
10	MC	U18EA210	EAA*: Sports/Yoga/NSS	-	-	2	-	100	-	100	-	100
			Total:	**14**	**3**	**12**	**22**	**280**	**180**	**460**	**540**	**1000**

[L= Lecture, T = Tutorials, P = Practicals & C = Credits]
EAA*: Extra Academic Activity* indicates mandatory non-credit course

Total Contact Periods/Week: 29; Total Credits: 22

DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING
KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE:: WARANGAL – 15
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SCHEME OF INSTRUCTION & EVALUATION

III SEMESTER OF 4-YEAR B.TECH DEGREE PROGRAM

[6Th+2P+1MC]

Sl. No	Category	Course Code	Course Title	Periods/week			Credits	Evaluation scheme				
				L	T	P	C	CIE			ESE	Total Marks
								TA	MSE	Total		
1	BSC	U18MH301	Engineering Mathematics - III	3	1	-	4	10	30	40	60	100
2	HSMC	U18TP302	Soft & Interpersonal Skills	_	_	2	1	100	-	100	-	100
3	OE	U18 OE303	Open Elective-I	3	-	-	3	10	30	40	60	100
4	PCC	U18EI304	Electrical and Electronic Measurements	3	_	_	3	10	30	40	60	100
5	PCC	U18 EI 305	Sensors and Transducers	3	-	-	3	10	30	40	60	100
6	PCC	U18 EI 306	Electronic Devices and Circuits-I	3	-	-	3	10	30	40	60	100
7	PCC	U18 EI 307	Digital Circuits and Logic Design	3	1	-	4	10	30	40	60	100
8	PCC	U18 EI 308	Measurements and Instrumentation Laboratory-I	-	-	2	1	40	-	40	60	100
9	OE	U18OE311	Open Elective –I based Laboratory	-	-	2	1	40	-	40	60	100
			Total:	**18**	**2**	**6**	**23**	**240**	**180**	**420**	**480**	**900**

Open Elective-I:
U18OE303A: Object Oriented Programming (CSE)
U18OE303B: Fluid Mechanics & Hydraulic Machines (CE)
U18OE303C: Mechatronics (ME)
U18OE303D: Web Programming (IT)
U18OE303F: Strength of Materials (CE)

Open Elective-I based Lab:
U18OE311A: Object Oriented Programming Lab (CSE)
U18OE311B: Fluid Mechanics & Hydraulic Machines Lab(CE)
U18OE311C: Mechatronics Lab(ME)
U18OE311D: Web Programming Lab (IT)
U18OE311F: Strength of Materials Lab (CE)

Total Contact Periods/Week: 26 **Total Credits: 23**

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SCHEME OF INSTRUCTION & EVALUATION

IV SEMESTER OF 4-YEAR B.TECH DEGREE PROGRAM

[5Th+3P+1MC]

Sl. No	Category	Course Code	Course Title	Periods/week			Credits	Evaluation scheme				
				L	T	P	C	CIE			ESE	Total Marks
								TA	MSE	Total		
1	OE	U18OE401	Open Elective-II	3	1	-	4	10	30	40	60	100
2	HSMC	U18MH402	Professional English	-	-	2	1	100	-	100	-	100
3	PCC	U18EI403	Signal Analysisand Systems	3	1	-	4	10	30	40	60	100
4	PCC	U18 EI 404	Electronic Devices and Circuits-II	3	1	-	4	10	30	40	60	100
5	PCC	U18 EI 405	Process Instrumentation	3	-	-	3	10	30	40	60	100
6	PCC	U18 EI 406	Digital Design using VHDL	3	-	-	3	10	30	40	60	100
7	PCC	U18 EI 407	Electronic Circuits Laboratory	-	-	2	1	40	-	40	60	100
8	PCC	U18 EI 408	Measurements and Instrumentation Lab-II	-	-	2	1	40	-	40	60	100
9	PCC	U18EI409	Digital Electronics Laboratory	-	-	2	1	40	-	40	60	100
10	MC	U18MH415	Essence of Indian Traditional Knowledge	2	-	-	-	10	30	40	60	100
11	MC	U18CH416	Environmental Studies*	2 *	_	_	_	10	30	40	60	100
			Total:	**17**	**3**	**8**	**22**	**280**	**180**	**460**	**540**	**1000**

Open Elective-II:

U18OE401A: Applicable Mathematics (MH)
U18OE401C: Elements of Mechanical Engineering (ME)
U18OE401E: Computer Networks (IT)
U18OE401F: Renewable Energy Sources (EEE)

Total Contact Periods/Week: 28 Total Credits: 22

***For Lateral entry students only**

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SCHEME OF INSTRUCTION & EVALUATION

V SEMESTER OF 4-YEAR B.TECH DEGREE PROGRAM

[5Th+3P+1MC+ Seminar]

Sl. No	Category	Course Code	Course Title	Periods/week			Credits	Evaluation scheme				
				L	T	P	C	CIE			ESE	Total Marks
								TA	MSE	Total		
1	MC	U18MH501	Universal Human Values - II	2	-	-	-	10	30	40	60	100
2	PE	U18EI502	Professional Elective - I / MOOC-I	3	-	-	3	10	30	40	60	100
3	PCC	U18 EI 503	VLSI Design	3	-	-	3	10	30	40	60	100
4	PCC	U18 EI 504	Microprocessor Systems and Interfacing	3	-	-	3	10	30	40	60	100
5	PCC	U18 EI505	Linear Integrated Circuits and Applications	3	-	-	3	10	30	40	60	100
6	ESC	U18 EE511	Linear Control Systems	3	-	-	3	10	30	40	60	100
7	PCC	U18 EI 507	Linear Integrated Circuits Laboratory	-	-	2	1	40	-	40	60	100
8	PCC	U18 EI 508	Virtual Instrumentation Laboratory	-	-	2	1	40	-	40	60	100
9	PCC	U18 EI 509	VLSI Design Laboratory	-	-	2	1	40	-	40	60	100
10	PROJ	U18 EI 510	Seminar	-	-	2	1	100	-	100	-	100
Total:				**17**	**-**	**8**	**19**	**280**	**180**	**460**	**540**	**1000**
Additional Learning*: Maximum credits allowed for Honors /Minor				-	-	-	**7**	-	-	-	-	-
Total credits for Honors/Minor students:				**-**	**-**	**-**	**19+7**	**-**	**-**	**-**	**-**	**-**

** List of courses for additional learning through **MOOCs** towards Honors/Minor in Engineering shall be prescribed by the department under Honors/ Minor Curricula*

Professional Elective-I / MOOC-I:
U18EI502A: Communication Systems
U18EI502B: Computer Architecture And Organization
U18EI502C: Data Base Management Systems
U18EI502M: MOOCs Course

Total Contact Periods/Week: 25 Total Credits: 19

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SCHEME OF INSTRUCTION & EVALUATION

VI SEMESTER OF 4-YEAR B.TECH DEGREE PROGRAM

[5Th+3P+1MC+ Mini project]

Sl. No	Category	Course Code	Course Title	Periods/week			Credits	Evaluation scheme				
				L	T	P	C	CIE			ESE	Total Marks
								TA	MSE	Total		
1	HSMC	U18TP601	Quantitative Aptitude & Logical Reasoning	2	_	_	1	10	30	40	60	100
2	HSMC	U18MH602	Management Economics & Accountancy	3	_	_	3	10	30	40	60	100
3	PE	U18EI603	Professional Elective - II / MOOC-II	3	-	-	3	10	30	40	60	100
4	PCC	U18EI604	Digital Signal Processing and Applications	3	-	-	3	10	30	40	60	100
5	PCC	U18EI605	Microcontrollers and Embedded Systems	3	-	-	3	10	30	40	60	100
6	PCC	U18EI606	Process Control	3	-	-	3	10	30	40	60	100
7	PCC	U18EI607	Signal Processing Laboratory	-	-	2	1	40	-	40	60	100
8	PCC	U18EI608	Microprocessors andMicrocontrollers Laboratory	-	-	2	1	40	-	40	60	100
9	PCC	U18EI609	Process Control Laboratory	-	-	2	1	40	-	40	60	100
10	PROJ	U18EI610	Mini Project	-	-	2	1	100	-	100	-	100
			Total:	**17**	_	**8**	**20**	**280**	**180**	**460**	**540**	**1000**
Additional Learning*:			Maximum credits allowed for Honors/Minor	**-**	**-**	**-**	**7**	-	-	-	-	-
			Total credits for Honors/Minor students:	**-**	**-**	**-**	**20+7**	**-**	**-**	**-**	**-**	**-**

** List of courses for additional learning through **MOOCs** towards Honors/Minor in Engineering shall be prescribed by the department under Honors/ Minor Curricula*

Professional Elective-II / MOOC-II:
U18EI603A: Electro Magnetic Theory
U18EI603B: Analytical Instrumentation
U18EI603C: Operating Systems
U18EI603M: MOOCs Course

Total Contact Periods/Week: 25 **Total Credits: 20**

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SCHEME OF INSTRUCTION & EVALUATION

VII SEMESTER OF 4-YEAR B.TECH DEGREE PROGRAM

[4Th+2P+ MP-I+ Internship]

Sl. No	Category	Course Code	Course Title	Periods/week			Credits	Evaluation scheme				
				L	T	P	C	CIE			ESE	Total Marks
								TA	MSE	Total		
1	OE	U18OE701	Open Elective- III	3	-	-	3	10	30	40	60	100
2	PE	U18EI702	Professional Elective - III / MOOC-III	3	-	-	3	10	30	40	60	100
3	PE	U18EI703	Professional Elective - IV / MOOC-IV	3	-	-	3	10	30	40	60	100
4	PCC	U18EI704	Biomedical Instrumentation	3	-	-	3	10	30	40	60	100
5	PCC	U18EI705	IoT Laboratory	-	-	2	1	40	-	40	60	100
6	PCC	U18EI706	Biomedical Instrumentation Laboratory	-	-	2	1	40	-	40	60	100
7	PROJ	U18EI707	Major Project - Phase – I	-	-	6	3	100	-	100	-	100
8	MC	U18EI708	Internship Evaluation	-	-	2	-	-	-	-	-	-
Total:				**12**	_	**12**	**17**	**220**	**120**	**340**	**360**	**700**
***Additional Learning**:** Maximum credits allowed for Honors/Minor				-	-	-	**7**	-	-	-	-	-
Total credits for Honors/Minor students:				**-**	**-**	**-**	**17+7**	**-**	**-**	**-**	**-**	**-**

** List of courses for additional learning through **MOOCs** towards Honors/Minor in Engineering shall be prescribed by the department under Honours/ Minor Curricula*

Open Elective-III:
U18OE701A: Disaster Management
U18OE701B: Project Management
U18OE701C: Professional Ethics in Engineering
U18OE701D: Rural Technology & Community Development

Professional Elective-III / MOOC-III:
U18EI702A: Internet of Things
U18EI702B: Advanced DSP
U18EI702C: Industrial Electronics
U18EI702M: MOOCs Course

Professional Elective-IV / MOOC-IV:
U18EI703A: Digital Image Processing
U18EI703B: Artificial Intelligence & Machine Learning
U18EI703C: Cyber Security
U18EI703M: MOOCs Course

Total Contact Periods /Week: 24 Total Credits: 17

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SCHEME OF INSTRUCTION & EVALUATION

VIII SEMESTER OF 4-YEAR B.TECH DEGREE PROGRAM

[3Th+ MP-II]

Sl. No	Category	Course Code	Course Title	Periods/week			Credits	Evaluation scheme				
				L	T	P	C	CIE			ESE	Total Marks
								TA	MSE	Total		
1	PE	U18EI801	Professional Elective - V / MOOC-V	3	-	-	3	10	30	40	60	100
2	PE	U18EI802	Professional Elective - VI / MOOC-VI	3	-	-	3	10	30	40	60	100
3	OE	U18OE803	Open Elective - IV / MOOC-VII	3	-	-	3	10	30	40	60	100
4	PROJ	U18EI804	Major Project - Phase - II	-	-	14	7	60	-	60	40	100
Total:				**9**	**_**	**14**	**16**	**90**	**90**	**180**	**220**	**400**
***Additional Learning*:**Maximum credits allowed for Honors/Minor				-	-	-	**7**	-	-	-	-	-
Total credits for Honors/Minor students:				**-**	**-**	**-**	**16+7**	**-**	**-**	**-**	**-**	**-**

** List of courses for additional learning through **MOOCs** towards Honors/Minor in Engineering shall be prescribed by the department under Honors/ Minor Curricula*

Professional Elective-V / MOOC-V:
U18EI801A: Fiber Optic Sensors & Laser Instrumentation
U18EI801B: Robotics
U18EI801C: Biomedical Signal Processing
U18EI801M: MOOCs Course

Professional Elective-VI / MOOC-VI:
U18EI802A: Industrial Automation
U18EI802B: Cellular and Mobile Communications
U18EI802C: Cloud Computing
U18EI802M: MOOCs Course

Open Elective-IV/MOOC-VII:
U18OE803A: Operations Research
U18OE803B: Management Information Systems
U18OE803C: Entrepreneurship Development
U18OE803D: Forex & Foreign Trade
U18OE803M: MOOCs Course

Total Contact Periods/Week: 23Total Credits: 16

SCHEME OF INSTRUCTION AND EVALUATION
I-VIII-SEMESTER OF 4-YEAR B.TECH DEGREE PROGRAMME
Semester Vs Course Category Weightage
(In terms of Total No. of Courses / Total No. of Credits)

Semester	Number of Courses / Number of Credits (*Component wise*)								
	BSC	**ESC**	**HSMC**	**PCC**	**OE**	**PE**	**PROJ**	**MC**	**TOTAL**
I	3/9	4/12	-	-	-	-	-	2/0	**9/21**
II	3/9	5/10	1/3	-	-	-	-	1/0	**10/22**
III	1/4	-	1/1	5/14	2/4	-	-	-	**9/23**
IV	-	-	1/1	7/17	1/4	-	-	2/0	**11/22**
V	-	1/3	-	6/12	-	1/3	1/1	1/0	**10/19**
VI	-	-	2/4	6/12	-	1/3	1/1	-	**10/20**
VII	-	-	-	3/5	1/3	2/6	1/3	1/0	**8/17**
VIII	-	-	-	-	1/3	2/6	1/7	-	**4/16**
Total	7/22	10/25	6/9	27/60	5/14	6/18	4/12	7/0	**71/160**
% of credits	**13.75**	**15.625**	**5.625**	**37.5**	**8.75**	**11.25**	**7.5**	**0.0**	**100**