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 & COMMUNICATION ENGINEERING

B.Tech–
ELECTRONICS COMMUNICATION & INSTRUMENTATION ENGINEERING (ECI)

URR18- R22 SCHEME (I to VIII SEMESTERS)

(Applicable from the Academic Year 2018-19)

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PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

UG - ELECTRONICS COMMUNICATION AND INSTRUMENTATION ENGINEERING – ECI

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)	**Within first few years after graduation**, the **Electronics Communication and Instrumentation Engineering** graduates will be able to …
PEO1: Technical Expertise	*apply the knowledge of core courses of electronics communication and instrumentation engineering for development of effective and innovative solutions to engineering problems*
PEO2: Successful Career	*excel in profession, higher education and entrepreneurship with updated technologies in communication, signal processing, vlsi, embedded systems, and instrumentation domains*
PEO3: Soft Skills and Life Long Learning	*exhibit professional ethics, effective communication, and teamwork in solving engineering problems by adapting contemporary research towards sustainable development of society.*

PROGRAM OUTCOMES (POs) & PROGRAM SPECIFIC OUTCOMES (PSOs)

UG - ELECTRONICS COMMUNICATION AND INSTRUMENTATION ENGINEERING – ECI

PROGRAM OUTCOMES (POs)	**At the time of graduation**, the **Electronics and Communication 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*

and society	*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, 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	*Apply the fundamentals of Electronics, Communication Signal processing, VLSI, Embedded Systems and Instrumentation in development of hardware and software prototypes and systems for complex engineering problems.*
PSO2	*Apply appropriate methodology, contemporary hardware and software tools to solve complex engineering problems related to embedded systems.*