



# R K COLLEGE OF ENGINEERING

Kethanakonda (V), Ibrahimpatnam (M), Vijayawada, AMARAVATI - 521456

(An ISO 9001:2015 Certified Institution)

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada & SBTET, Amaravati )

★ TIME TABLES  
★ RESULTS  
★ NOTIFICATIONS

★ SEMINARS  
& AWARENESS  
PROGRAMMES

COUNSELLING CODE

**RKCE**

HOME	COLLEGE TOUR	100 % PLACEMENTS	NAAC	ABOUT	ACADEMICS	DEPARTMENTS	AMENITIES	EXAMCELL	MORE
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## Electronics & Communications Engineering



HOD

### VISION

To become a reputed centre of learning in Electronics and ...  
Communication and transform the students into accomplished professionals

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### MISSION

DM1 : To provide the learning ambience to nurture the young minds with theoretical and practical knowledge to produce employable and competent engineers.

DM2 : To provide state-of-the-art hardware and software technologies to meet industry requirements.

DM3 : To Conduct Technical Development Programs for overall professional caliber of Stake Holders.

DM4 : To imbibe team spirit and leadership qualities among students.

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### PEOs

#### Programme Educational Outcomes

PEO1: Graduates apply their knowledge of Mathematics of science to identify, analyze and solve problems in its field of electronics and develop sophisticated communication systems and embedded systems.

PEO2: Graduates exhibits this innovative ideas and management skills to meet the day to day technical challenges.

PEO3: Graduates embody a commitment to professional ethics, diversity and social awareness in their professional career.

PEO4 : Graduates exhibit a desire for the long learning through technical training and professional activities.

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### POs

#### Programme Outcomes

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 and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal 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.

## PSOs

### Programme Specific Outcomes

**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 and society:**

Apply reasoning informed by the contextual knowledge to assess

societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

**P07 : 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.

**P08 : Ethics:**

Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

**P09 : Individual & Team Work:**

Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**P010 : 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

**P011 : Project Management & 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.

**P012 : 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.

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**COs**

Course Outcomes

B.Tech

M.Tech

Labs

NEW PICS COMING SOON



The objective of this programme is to learn the concepts of electronics and communication disciplines and apply them to solve real world problems in the industry. It emphasizes the design of hardware systems as well as communication systems. The students start the programme learning the fundamental concepts of electronics engineering, while doing foundation courses in mathematics and physics in tandem. A student then progresses to study core subjects of electronics such as Analog and Pulse Circuits, Electronic Circuit Analysis, communications courses such as Analog and Digital Communications, Signals and Systems etc. The foundations laid by these basic courses enable students to select various electives that provide them with specialized skill sets. A student after successfully completing this programme would be well equipped with necessary skills to either pursue higher studies or work in industry as IC design engineer, Systems engineer, Embedded Systems Design engineer, RF engineer, Wireless/Mobile network engineer etc.

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