


**KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE**

Opp : Yerragattu Gutta, Hasanparthy (Mandal), WARANGAL - 506 015, Telangana, INDIA.

 काकतीय प्रौद्योगिकी एवं विज्ञान संस्थान, वरंगल - ५०६ ०१५ तेलंगाना, भारत  
 కాకతీయ సాంకేతిక విజ్ఞాన శాస్త్ర విద్యాలయం, వరంగల్ - ౫౦౬ ౦౧౫ తెలంగాణ, భారతదేశము

(An Autonomous Institute under Kakatiya University, Warangal)

(Approved by AICTE, New Delhi; Recognised by UGC under 2(f) &amp; 12(B); Sponsored by EKASILA EDUCATION SOCIETY)

website: www.kitsw.ac.in

E-mail: principal@kitsw.ac.in

☎ : +91 9392055211, +91 7382564388

**DEPARTMENT OF ELECTRONICS COMMUNICATION & INSTRUMENTATION ENGINEERING**
**MINOR in ECI Programme \_ B.Tech.(ECI) - URR18:**

S. No	MINOR curriculum course Identified by the Dept	Equivalent SWAYAM - MOOC course	ONLINE COURSE LINK	Duration (Weeks)	Credits
<b>Core courses (any 2 to 3 courses)</b>					
1.	U18MCI1001 Analog Electronic Circuits	Analog Electronic Circuits	<a href="https://onlinecourses.nptel.ac.in/noc25_ee157">https://onlinecourses.nptel.ac.in/noc25_ee157</a>	12 weeks	3
2.	U18MCI1002 Signals and Systems	Mathematical Methods and Techniques in Signal Processing	<a href="https://onlinecourses.nptel.ac.in/noc25_ee153">https://onlinecourses.nptel.ac.in/noc25_ee153</a>	12 weeks	3
3.	U18MCI1003 Electrical Measurement and Electronic Instruments	Electrical Measurement and Electronic Instruments	<a href="https://onlinecourses.nptel.ac.in/noc25_ee123">https://onlinecourses.nptel.ac.in/noc25_ee123</a>	12 weeks	3
4.	U18MCI1004 Digital Circuits	Digital Circuits	<a href="https://onlinecourses.nptel.ac.in/noc25_ee125">https://onlinecourses.nptel.ac.in/noc25_ee125</a>	12 weeks	3
5.	U18MCI1005 Sensors & Actuators	Microsensors and Nanosensors	<a href="https://onlinecourses.nptel.ac.in/noc25_ee177">https://onlinecourses.nptel.ac.in/noc25_ee177</a>	12 weeks	3
6.	U18MCI1006 Communication Engineering	Analog Communication	<a href="https://onlinecourses.nptel.ac.in/noc25_ee131">https://onlinecourses.nptel.ac.in/noc25_ee131</a>	12 weeks	3
<b>Elective courses (any 2 to 4 courses)</b>					
7.	U18MCI1007 Integrated Circuits	Linear Integrated Circuits	<a href="https://onlinecourses.swayam2.ac.in/ntr25_ed139">https://onlinecourses.swayam2.ac.in/ntr25_ed139</a>	12 weeks	4
8.	U18MCI1008 Digital Signal Processing	Real-Time Digital Signal Processing	<a href="https://onlinecourses.nptel.ac.in/noc25_ee118">https://onlinecourses.nptel.ac.in/noc25_ee118</a>	12 weeks	3
9.	U18MCI1009 Microprocessors and Interfacing	Digital Electronics and Microprocessor	NPTEL is not offering these courses in July-Nov 2025		
10.	U18MCI1010 Industrial Internet of Things	Introduction to Industry 4.0 and Industrial Internet of Things	<a href="https://onlinecourses.nptel.ac.in/noc25_cs146">https://onlinecourses.nptel.ac.in/noc25_cs146</a>	12 weeks	0
11.	U18MCI1011 Introduction to Embedded System Design	Embedded System Design	NPTEL is not offering these courses in July-Nov 2025		
12.	U18MCI1012 Mathematical Foundation for Machine Learning	Introduction to Machine Learning	<a href="https://onlinecourses.nptel.ac.in/noc25_cs91">https://onlinecourses.nptel.ac.in/noc25_cs91</a>	12 weeks	3

13.	U18MCI1013 Artificial Intelligence and Applications	Artificial Intelligence: Concepts and Techniques	<a href="https://onlinecourses.nptel.ac.in/noc25_cs159">https://onlinecourses. nptel.ac.in/noc25_cs15 9</a>	12 weeks	3
14.	U18MCI1014 Wireless and Cellular Communications	Introduction to Wireless and Cellular Communications	<a href="https://onlinecourses.nptel.ac.in/noc25_ee109">https://onlinecourses. nptel.ac.in/noc25_ee10 9</a>	12 weeks	3
15.	U18MCI1015 Fiber Optic Communications	Fiber Optic Communication Technology	<a href="https://onlinecourses.nptel.ac.in/noc25_ee90">https://onlinecourses. nptel.ac.in/noc25_ee90</a>	12 weeks	3
16.	U18MCI1016 Digital Image Processing	Digital Image Processing	<a href="https://onlinecourses.nptel.ac.in/noc25_ee126">https://onlinecourses. nptel.ac.in/noc25_ee12 6</a>	12 weeks	3
17.	U18MCI1017 VLSI Design	Analog VLSI Design	<a href="https://onlinecourses.nptel.ac.in/noc25_ee111">https://onlinecourses. nptel.ac.in/noc25_ee11 1</a>	12 weeks	3
18.	U18MCI1018 Biomedical Instrumentation	Biomedical Instrumentation	<a href="https://onlinecourses.nptel.ac.in/noc25_bt49">https://onlinecourses. nptel.ac.in/noc25_bt49</a>	12 weeks	3

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