

Kakinada-533003, Andhra Pradesh (India)

#### Program wise Curriculum Analysis of (R19)

Program Code	, rogium name ,	No of Courses having focus on			Total Courses	T
		Employability	Entrepreneurship		- Total Courses	Percentage
	B. Tech – Electronics & 20 Communication Engineering	20	14	Skill development		
		20		23	70	82%
	M.Tech - Computers &	- Computers 9	OF.			
	Communications Engineering	00	05	07	20	90%
	M.Tech - Instrumentation &	03	69			
	Control Engineering	03	08	07	20	90%

Coordinator

J.N.T. University Kakinad

Kakinada-53300°



Kakinada-533003, Andhra Pradesh (India)

## Course wise Curriculum Analysis (R19)

Program Code: 1D

Program Name: M.Tech – Instrumentation & Control Engineering

Year: 1

Semester: 1

Course code.	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
PC_	Transducers and Sensors			(,
PC	Digital Control Systems		yes	
PE	Adaptive Control Systems     Soft computing Techniques     Fuzzy Based Control Systems     Artificial intelligence	yes	19	72
PE	Fiber optic sensors and devices     VLSI Technology and design     Advanced digital signal processing     Digital system design	×	yes	•
MC	Research methodology and IPR		ves	
LC	Transducers & Instrumentation Lab		7-3-	yes
.C	Digital control system simulation Lab			ves
MC	Audit course-1		ves	7



Kakinada-533003, Andhra Pradesh (India)

### Course wise Curriculum Analysis (R19)

Program Code: 1D

Program Name: M.Tech – Instrumentation & Control Engineering

Year: 1

Semester: 2

Course code.	Course name	Employability (Yes/No)	Entrepreneurshi p (Yes/No)	Skill development (Yes/No)
PC	Bio-Medical Engineering		yes	
<u>PC</u>	Process Control Instrumentation			
PE	1.Non Linear and Optimal     Control Systems     2. Control and guidance systems     3. Data Acquisition systems     4. Machine learning	yes		
PE	DSP Processors &     Architecture     Analytical Instrumentation     Robotics     EMI / EMC	yes		
LC	Bio-Medical Engineering Lab		-	yes
C	Process Control Instrumentation Lab			yes
PR	Mini Project with Seminar			yes
ИС	Audit Course – 2		yes	<u> </u>



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## Course wise Curriculum Analysis (R19)

Program Code: 1D

Program Name: M.Tech – Instrumentation & Control Engineering

Year: 2

Semester: 1

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Course code.	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
	1. MEMS & Nano Technology		yes	(1.00)
	2. Internet of Things		, i	
PE	3. Embedded System Design			
	4. Intelligent and Smart			
	Instrumentation			
	5. MOOCs-1 (NPTEL/SWAYAM)			
	1. Business Analytics		yes	
	2. Industrial Safety		,	
	3. Operations Research			
	4. Cost Management of Engineering			
	Projects			
OE	5. Composite Materials			
OE.	6. Waste to Energy			
	7. MOOCs-2 (NPTEL/SWAYAM)-			
	Any 12 Week Course on	9		
	Engineering/ Management/			
	Mathematics offered			
	by other than parent department			
	Dissertation Phase -I /Industrial Project			yes
PR	(to be continued and	72		,
	evaluated next semester)			



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## Course wise Curriculum Analysis (R19)

Program Code: 1D

Program Name: M.Tech - Instrumentation & Control Engineering

Year: 2

Semester: 2

Course code.	Course name	Employability (Yes/No)	Entrepreneurshi p (Yes/No)	Skill development (Yes/No)
PR	Project/ Dissertation Phase-II (continued from III semester)			yes

Coordinator

**Chairman, Board of Studies**