KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL
MINOR IN ELECTRONICS & INSTRUMENTATION ENGINEERING (MEIE)
MINOR CURRICULUM
EQUIVALENT MOOCs – ODD SEMESTER, JULY-DEC 2021, **AY 2021-22**

S. No	Course Code	Course Name	EQUIVALENT COURSES OFFERED BY								
			SWAYAM-NPTEL			COURSERA / UDEMY			SPOKEN TUTORIAL - IITB		
MINOR COMPULSORY COURSES			*Course Name*	C	Course Dates*	*Course Name*	C	Course Dates*	*Course Name*	C	Course Dates*
1	U18MEI1001	Analog Electronics	*Analog Electronic Circuits by Prof. Shouribrata chatterjee IITD (12 Weeks)*	3	CCD: 26.07.2021 LDR: 15.10.2021	--	-	CCD: LDR:	--	--	CCD: LDR:
2	U18MEI1002	Digital Electronics	*i. Digital Circuits by Prof. Santanu Chattopadhyay IITKGP (12 Weeks) (OR) ii. Switching Circuits and Logic Design by Prof. Indranil Sengupta IITKGP (12 Weeks)*	3	CCD: 26.07.2020 LDR: 17.10.2021	--	-	CCD: LDR:	--	-	CCD: LDR:
3	U18MEI1003	Measurements and Sensors	--	--	--	--	-	CCD: LDR:	--	-	CCD: LDR:
Minor Elective courses (any 3 to 6 courses)											
4	U18MEI1004	**Signals and Systems**	--	--	--	--	- - -	--	--	--	
5	U18MEI1005	**Linear Integrated Circuits**	*Linear Integrated Circuits Op-Amp Practical Applications: Design, Simulation and*	3	CCD: 26.07.2021 LDR: 15.10.2021	--	- -	--	--	--	

#	Course Code	Course Title	MOOC Course	Credits	Dates					
			Implementation by Prof. Hardik J. Pandya IISC B'lore (12 weeks)							
6	U18MEI1006	**Electromagnetic Theory**	*Electromagnetic Theory by Prof. Pradeep Kumar (12 Weeks)*	3	CCD: 26.07.2021 LDR: 15.10.2021	--	- -			
7	U18MEI1007	**Digital Signal Processing**	--	--	--	--	- -	--	--	--
8	U18MEI1008	**Digital Image Processing**	*Digital Image Processing by Prof. Prabir Kumar Biswas IITKGP (12Weeks)*	3	CCD: 26.07.2021 LDR: 15.10.2021	--	- -	-	--	--
9	U18MEI1009	**Digital Design using HDL**	*Digital Design using HDL System Design Through VERILOG by Prof. Shaik Rafi Ahmed IITG (8 Weeks)*	2	CCD: 26.07.2021 LDR: 17.09.2021	--	- -	--	--	--
10	U18MEI1010	**VLSI Design**	*VLSI Design C-Based VLSI Design Computer Science and Engineering by Prof. Chandan Karfa IIT Guwahati (12 Weeks)*	3	CCD: 26.07.2021 LDR: 15.10.2021	--	- -	--	--	--
11	U18MEI1011	**Computer Architecture**	*Advanced computer architecture Computer Science and Engineering by Prof. Smruti R. Sarangi IIT Delhi (12 Weeks)*	3	CCD: 26.07.2021 LDR: 15.10.2021	--	- -	--	--	--

No	Course Code	Course Name	Equivalent MOOC	C	CCD/LDR					
12	U18MEI1012	**Microprocessors and Microcontrollers**	--	--	--	--	-	--	--	--	--
13	U18MEI1013	**Embedded Systems**	--	--	--	--		--	---	--	--
14	U18MEI1014	**Internet of Things** Introduction to **Internet of things**	*Introduction to Internet of Things by Prof. Sudip Misra IITKGP (12 Weeks)*	3	CCD: 26.07.2021 LDR: 15.10.2021	--		--	---	--	--
15	U18MEI1015	**Process Instrumentation**	--	--	--	--		--	--		--
16	U18MEI1016	**Biomedical Instrumentation**	--	--	--	--		--	--		-
17	U18MEI1017	**Process Control**	--	--	--	--		--	--		--
18	U18MEI1018	**Communication systems**	--	--	--	--		--	--		--

I.   In exigency situations such as the student already completed the listed compulsory courses(s) on his/her own interest during previous semesters through valid MOOCs etc, the HoD in consultation with Dean-AA shall propose an alternative course(s) for the specific scenario, after verification of relevant documents.

II.   By the end of April of every academic year, the department in consultation with Dean-AA, shall
A. notify the list of equivalent courses in SWAYAM-NPTEL MOOCs / other standard MOOCs against the list of courses notified under Honours curriculum
B. propose a new course(s) in the place of any listed course(s) in the Honours curriculum, in case no equivalent course is found in MOOCs

*C: **C**redits   ;   **CCD**: **C**ourse **C**ommencement **D**ate;   **LDR**: **L**ast **D**ate of **R**egistration

-		**Laboratory Courses (any 2 courses) – TO BE TAKEN IN THE MINOR DEPARTMENT**		
1	**Minor Laboratory Courses**	U18MEI1019	Instrumentation Lab	
2		U18MEI1020	**Analog Circuits Lab**	**1 credit per Lab Course**
3		U18MEI1021	Digital Design Lab	
4		U18MEI1022	MPMC Lab	

	Sd/–	**Sd/–**	
	Smt. R. Nirmala Devi	**Dr. M. Raghuram**	
Date: 22-06-2021	**MOOCs Coordinator**	**Head of the Department**	**Dean, Academic Affairs**