

**TIME TABLE**  
**EMBEDDED SYSTEMS COURSE**  
**SPONSORED BY HPKVN**

<b>Date</b>	<b>0930-1100</b>	<b>1115-1245</b>	<b>1400-1530</b>	<b>1545-1715</b>
<b>07.12.2022</b>	Inauguration	Introduction to Embedded Systems (SRC)	Embedded Systems Architecture (SRC)	Choice of Embedded Core (SB)
<b>08.12.2022</b>	General Purpose Processors (SB)	Introduction to Microcontroller (SRC)	Lab on Microcontroller (SRC)	Lab on Microcontroller (SRC)
<b>09.12.2022</b>	PCB Design-1 (GSR)	PCB Design-2 (GSR)	Lab on PCB Design (GSR)	Lab on PCB Design (GSR)
<b>10.12.2022</b>	Embedded RF Design (GSR)	Embedded RF Design (GSR)		
<b>12.12.2022</b>	Single Purpose Processors (RS)	Introduction to HDL (RS)	HDL Lab (RS)	HDL Lab (RS)
<b>13.12.2022</b>	Modeling of FSM using HDL (RS)	Inertial and transport delays (RS)	HDL Lab (RS)	HDL Lab (RS)
<b>14.12.2022</b>	Modeling of Memory (SB)	Memory architectures (SB)	HDL Lab (SB)	HDL Lab (SB)
<b>15.12.2022</b>	Asynchronous Logic Design-1 (SB)	Asynchronous Logic Design-2 (SB)	HDL Lab (SB)	HDL Lab (SBN)
<b>16.12.2022</b>	Introduction to FPGA-1 (SB)	Introduction to FPGA-2 (SB)	Introduction to FPGA Lab (SB)	Introduction to FPGA Lab (SB)
<b>17.12.2022</b>	Sensors and Actuators (SRC)	Signal Conditioning of Sensors (SRC)		
<b>19.12.2022</b>	SPI (SRC)	I2C (SRC)	SPI Lab (SRC)	SPI Lab (SRC)
<b>20.12.2022</b>	Timers and Counters (SRC)	Pulse Width Modulators (SRC)	Timers, Counters and Pulse Width Modulators Lab (SRC)	Timers, Counters and Pulse Width Modulators Lab (SRC)
<b>21.12.2022</b>	Introduction to DSP-1 (NKD)	Introduction to DSP-2 (NKD)	Sensor Interfacing Lab (SRC)	Sensor Interfacing Lab (SRC)
<b>22.12.2022</b>	DSP using FPGA-1 (NKD)	DSP using FPGA-2 (NKD)	DSP using FPGA Lab (NKD)	DSP using FPGA Lab (NKD)
<b>23.12.2022</b>	Introduction to robotics (NKD)	Programming a robot using a microcontroller (NKD)	Robotics lab (NKD)	Robotics Lab (NKD)
<b>24.12.2022</b>	Introduction to Analog Circuits (HS)	Introduction to Analog Circuits (HS)		
<b>26.12.2022</b>	Analog to Digital Converter	Digital to Analog Converter	Lab on ADC (HS)	Lab on ADC (HS)

	(HS)	(HS)		
<b>27.12.2022</b>	Interrupt Systems-1 (SRC)	Interrupt Systems-2 (SRC)	Interrupt Programming Lab (SRC)	Interrupt Programming Lab (SRC)
<b>28.12.2022</b>	Programmable Interrupt Controller (SRC)	Introduction to Real Time Systems (SRC)	Rate Monotonic Systems (SRC)	Real Time Embedded Systems (SRC)
<b>29.12.2022</b>	I/O Devices-1 (SRC)	I/O Devices-2 (SRC)	I/O interfacing Lab (SRC)	I/O Interfacing Lab (SRC)
<b>30.12.2022</b>	Embedded Systems for Communication (AS)	Introduction to IoT and Antenna Systems (AS)	IoT and antenna Lab (AS)	IoT and antenna Lab (AS)
<b>31.12.2022</b>	Applications of Embedded Systems in Real Life (AS)	Valedictory Session		

AS – Dr. Anirban Sarkar

GSR - Dr. Gopi Shrikanth Reddy

HS – Dr. Hitesh Shrimali

NKD – Dr. Narendra Kumar Dhar

RS – Dr. Rahul Shrestha

SRC – Dr. Shubhajit Roy Chowdhury

SB – Dr. Srinivasu Bodapati