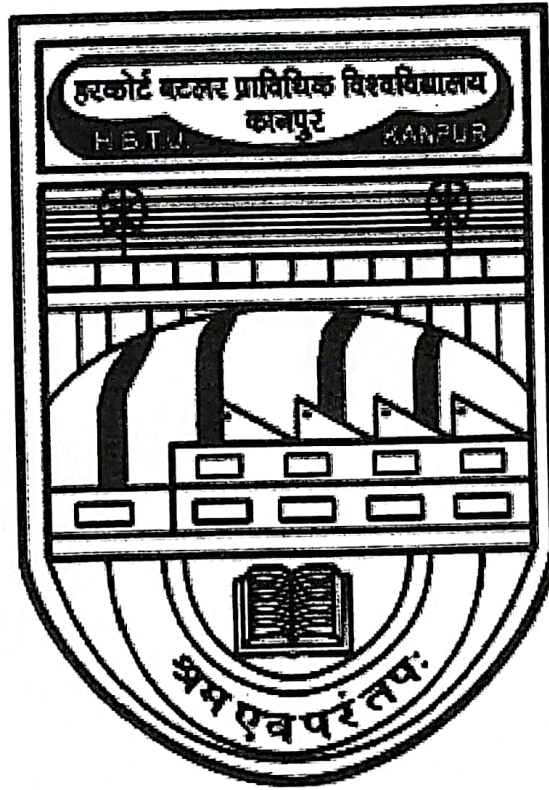


**SUMMER TRAINING PROGRAM ON
“PYTHON PROGRAMMING, DATA
ANALYSIS, MACHINE LEARNING,
ROBOTICS, AERO-MODELLING, RP & IoT”
FROM 08-20, 2019 FOR THE STUDENTS OF
IST YEAR B.TECH.**



**TRAINING AND PLACEMENT CELL
H.B.T.U. KANPUR - 208002**

Time Schedule for two weeks Summer Training Programme on Python Programming, Data Analysis, Machine Learning, Robotics, Aero-Modelling, RP & IoT from 08-20 July 2019

Days and Date	10 – 11.30 AM	11.30-11.45AM	11.45 – 1.15 PM	1.15-2.15 PM	2.15-3.45 PM	3.45-4 PM	4-5 PM
Day 1 (8July19)	Python, Download and Installation of Python	T E A B R E A K	Variable value & types, Python File Extensions	L U N C H	String and String operations	T E A B R E A K	String Functions, Methods and Assignment
Day 2 (9July19)	Use of “if condition”, Array Nested IF Statement		“While Loop” and “For Loop”, Strings loop		List		List Operations Assignment
Day 3 (10July19)	Tuple		Tuple Operations		Dictionary		Dictionary Operations Assignment
Day 4 (11July19)	OOPs Programming		Define Classes Creating Objects		Function, Function Return Value?		call a function in Python Assignment
Day 5 (12July19)	GUI Programming-Tkinter Basic		TK 2		GUI Programming-Tkinter Advance		GUI Programming-Tkinter Advance 2
Day 6 (13July19)	Exception Handling		Multi Threading		Adding Controls With Tkinter		Tkinter: Entry box, drop down Button, Spinbox, Check box, Image
Day 7 (14July19)	————— SUNDAY —————						

Day 8 (15July19)	My Sql Installation		Form Creation		Menu, Radio Button, Scroll Text, Message Box Assignment	Queries Execution in MySql, Database Connection
Day 9 (16July19)	Numpy Library Introduction (Machine Learning Library)		Numpy Library Details, Data Analysis (Machine Learning Library)		Sign up, Login Form, Assignment	Applications of Rapid Prototyping
Day 10 (17July19)	Panda Library Introduction, Matplot Library (Machine Learning Library)		Introduction of MATLAB By Prof A. Gupta, IIT K		New Project Design	Python Project
Day 11 (18July19)	Introduction to Internet of Things (IOT)		IOT- Designing web Pages to control I/O devices		Hardware peripherals, LED BUZZER, DC MOTOR, SWITCH, Temperature sensor	Programming of Node MCU. Assignment
Day 12 (19July19)	IOT-Designing web Pages to control I/O devices		Introduction to Robotics By Dr A. Kulkarni, IITK		using Google assistance and IFTTT	IOT- Developing Blynk/ThingSpeak API to update sensor values to a Cloud.
Day 13 (20July19)	Introduction to Aerodynamics – Prof Abhishek, IIT K		About RC plane and drones		Aero-flying session of RC plane and Drones	