

Programme Code:	BSc PHY	Programme Title:	Bachelor of Science	
Course Code:	18VAD601	Title	Batch:	2018 – 2021
		Value Added Course: Remote Sensing and Data Fusion using IoT	Semester:	VI
Total Hrs	30		Credits:	Grade

VALUE ADDED PROGRAM

S.no	Remote Sensing and Data Fusion using IoT- Syllabus	Modules
1	Introduction to Sensors - Introduction to Data Acquisition System : IoT - Introduction to Sensors Integration - Vision Sensors Interface	Module 1
2	Humidity Sensor Interface - Temperature Interface - Pressure Sensor Interface - Water quality Sensor Interface - Moisture Sensor Interface	Module 2
3	Level Sensor Interface - Flow Sensor Interface - Gas Sensor Interface (Co2, Co, O2, Methane) - Tilt Sensor Interface	Module 3
4	Displacement Sensor Interface - – Position Sensor Interface - Motion Sensor Interface - Accelerometer Sensor Interface	Module 4
5	IoT Interface using IBM Cloud - IoT Launch - Real Time Sensing and Monitoring -RTC Interface	Module 5

Programme Code:	B.Sc. PHY			Programme Title:	Bachelor of Physics	
Course Code:	18VAD603			Title	Batch:	2018 – 2021
Lecture Hrs./Week or Practical Hrs./Week		Tutorial Hrs./Sem.	30	Skill based Elective II: Fundamentals of Astrophysics	Semester:	VI
					Credits:	

VALUE ADDED PROGRAM

S.no	Remote Sensing and Data Fusion using IoT- Syllabus	Modules
1	Introduction to Sensors - Introduction to Data Acquisition System : IoT - Introduction to Sensors Integration - Vision Sensors Interface	Module 1
2	Humidity Sensor Interface - Temperature Interface - Pressure Sensor Interface - Water quality Sensor Interface - Moisture Sensor Interface	Module 2
3	Level Sensor Interface - Flow Sensor Interface - Gas Sensor Interface (CO ₂ , CO, O ₂ , Methane) - Tilt Sensor Interface	Module 3
4	Displacement Sensor Interface - Position Sensor Interface - Motion Sensor Interface - Accelerometer Sensor Interface	Module 4
5	IoT Interface using IBM Cloud - IoT Launch - Real Time Sensing and Monitoring - RTC Interface	Module 5



HoD