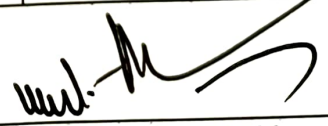


**POST GRADUATE DEPARTMENT OF PHYSICS
UNIVERSITY OF KASHMIR, SRINAGAR-06**

September 28, 2021

Following is the list of projects offered by the various faculty members

S. No.	Project Title	Faculty member
1	Hardware Description Languages and Their Functional Uses	Shakeel A. Simnani
2	Renormalization group in Real and Momentum Space.	Muzafar Q. Lone
3	Phase transitions in Bose-Hubbard Model.	Muzafar Q. Lone
4	Transport in Quantum Dots	Muzafar Q. Lone
5	Materials modelling using Density functional theory	Basharat A. Want
6	Dielectric and magnetic characterisation of some rare-earth based solid state materials	Basharat A. Want
7	Characteristics of mountain gravity waves observed using Airglow Imager (requires nighttime availability)	Manzoor A. Malik
8	Recent developments in High Temperature Superconductivity	Manzoor A. Malik
9	Role of two Critical parameters in nanophysics.	Ghulam Nabi Dar
10	ZnO nanomaterial: Preparation characterization and it's applications.	Ghulam Nabi Dar
11	Study of High Energy Peaked Blazars.	Naseer Iqbal
12	Archaeo-astronomy in an International Context.	Naseer Iqbal
13	Dynamics and Thermodynamics of western disturbances	Waheed A. Dar
14	Study of some thermodynamical parameters in relativistic heavy-ion collisions	Waseem Bari
15	Thermal history of Universe	Sajad Masood



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S. No.	Project Title	Faculty member
16	Study of atmospheric electrified at Gulmarg observatory	Nissar Ahmad
17	Statistical study of COVID-19 cases in India with special reference to J & K.	Nissar Ahmad
18	Performing experiments outside the four walls of the laboratory using expEYES.	Shabir Ahmad
19	Using C/C++ to solve physics problems	Shabir Ahmad
20	Detection of different particles in heavy ion collision experiments.	M. Farooq Mir
21	Determination of rapidity distribution of different particles in heavy ion collision using UrQMD model.	M. Farooq Mir
22	Spontaneous isospin symmetry breaking in nucleon-nucleon interaction	Javid A. Sheikh


(Professor Basharat A. Wani)

30/9/21

Head of the Department