"Nanomaterials Synthesis and Characterization Techniques (NSCT-2022)"

COURSE SCHEDULE

Date: 22nd August to 06th September 2022.

WEEKLY PLAN (Total hours: 45 Hours 3 Credit)

Week 1:

Day	Time	Date	Topic	Speaker	Assignments (10 M)
Day 1	11:30 to 12:00	22/08/2022	Introduction to Course	WSB	
Day 1	12:00 to 1:00	22/08/2022	Nanotechnology Basics	PPK	
	01:15 to 2:15	22/08/2022	Co-precipitation Synthesis	DPR	
Day 1	3:00 to 4:00	22/08/2022	**Assignment 1**		
Day 2	12:00 to 1:00	23/08/2022	Sol- gel Synthesis	PPK	
Day 2	01:15 to 2:15	23/08/2022	X-ray diffraction Basics	NNS	
Day 2	3:00 to 4:00	23/08/2022	**Assignment 2**		
Day 3	12:00 to 1:00	24/08/2022	Green Synthesis	VVD	
Day 3	01:15 to 2:15	24/08/2022	Combustion Method	SSA	
Day 3	3:00 to 4:00	24/08/2022	**Assignment 3**		
Day 4	12:00 to 1:00	25/08/2022	Spray Pyrolysis	VVD	
Day 4	01:15 to 2:15	25/08/2022	TGA-DTA	DPR	
Day 4	3:00 to 4:00	25/08/2022	**Assignment 4**		
Day 5	12:00 to 1:00	26/08/2022	Hydrothermal synthesis	RGD	
Day 5	01:15 to 2:15	26/08/2022	Electron Microscopy: SEM and TEM	ABB	
Day 5	3:00 to 4:00	26/08/2022	**Assignment 5**		
Day 6	12:00 to 1:00	27/08/2022	UV-Vis spectroscopy	WSB	
Day 6	01:15 to 2:15	27/08/2022	Raman spectroscopy	PAN	
Day 6	3:00 to 4:00	27/08/2022	**Assignment 6**		
Day 7	12:00 to 1:00	28/08/2022	Cyclic voltammetry/EIS	VVD	
Day 7	01:15 to 2:15	28/08/2022	FTIR spectroscopy	PAF	
Day 7	3:00 to 4:00	28/08/2022	**Assignment 7**		

Week 2:

Day	Time	Date	Topic	Speaker	Assignments (10 M)
Day 1	12:00 to 5:00	29/08/2022	Hands on/lab session Sol-gel		
Day 1	05:00 to 06:00 pm	29/08/2022	**Assignment 8**		
Day 2	12:00 to 5:00	30/08/2022	Hands on/lab session Co-precipitation		
Day 2	05:00 to 06:00 pm	30/08/2022	**Assignment 9**		
Day 3	12 to 5:30	01/09/2022	Hands on/lab session Hydrothermal		
Day 3	05:00 to 06:00 pm	01/09/2022	**Assignment 10**		
Day 4	12 to 5:30	02/09/2022	Hands on/lab session Spray pyrolysis		
Day 4	05:00 to 06:00 pm	02/09/2022	**Assignment 11**		
Day 5	12 to 5:30	03/09/2022	Hands on/lab session Hydrothermal		
Day 5	05:00 to 06:00 pm	03/09/2022	**Assignment 12**		
Day 6	12 to 1:30	04/09/2022	XRD		
Day 6	01:30 to 3:15	04/09/2022	FTIR		
Day 6	3:15 to 5:00	05/09/2022	UV-Vis spectroscopy		
Day 6	5:00 to 6:00	05/09/2022	**Assignment 13**		
Day 7	01 to 02 pm	06/09/2022	**Final Examination**		

Note: One assignment per lecture to be prepared by teacher (google form).

Assignment may be MCQ/Theory/Problem (10 Marks)

Final Online Examination: (Max. Marks 100): **06.09.2022**