#### **REPORT**

**One Day Research Training Programme** 

or

#### "Fabrication and Experimental Techniques Self-Charged Power Cells"

(Under Scientific Social Responsibility (SSR) Policy of SERB)

4<sup>th</sup> January, 2023

Organised by

Department of Physics, Netaji Nagar College for Women

(Sponsored by SERB, Govt. of India (EEQ/2019/000340))

Patron: Dr. Tapan Kumar Ghosh, Principal

Convenor: Dr. Pradip Thakur, Assistant Professor, Department of Physics

#### Flyer of the Program



#### NETAJI NAGAR COLLEGE FOR WOMEN Kolkata-700092



One Day Research Training Programme on

# "Fabrication and Experimental Techniques of Self-Charged Power Cells"

(Under Scientific Social Responsibility (SSR) Policy of SERB)

4th January, 2023

Organized by

Department of Physics,

Netaji Nagar College for Women

(Sponsored by SERB, Govt. of India (EEQ/2019/000340))

#### **AIM OF THE PROGRAMME**

The programme was organized under the under Scientific Social Responsibility (SSR) Policy of Science and Engineering Research Board (SERB), Govt. of India. The fund was sponsored by the SERB through the sanctioned research project entitled "Development of electroactive polymer nanocomposites based self-charged photo-power cells: A novel and simple approach towards clean energy generation and storage" of Dr. Pradip Thakur, Principal Investigator, Department of Physics, Netaji Nagar College for Women.

The key objective of this programme was to discuss some critical concepts and fundamental understanding of the state-of the-art **Green Energy Research** works. The programme offered learning of nanoscale properties and self-charged power cell design and development including fabrications the device to experimental techniques. Their intended use in real life application also explained. The topics focus on basics, advances and applications to benefit people from academic and research communities associated with Science and Engineering.

The workshop also provided hands-on experience to the participants in fabrication of polymeric photo-power cell and handling Hands on training of data recording of the device through Cyclic Voltammetry (CV) Instrument (PG Lyte-1.0) & Digital Multimeter (DMM-6500, Keithley).

The programme was also meant to support motivated researchers, PG and PhD level students, who are having a strong willingness to get excellence in their scientific and engineering research pursuits. The training programme was for researchers, post-doc, JRF, SRF, PG and PhD research scholars.

## Program Schedule: 11.00 AM - 11.30 AM: Registration 11.30 AM - 11.45 AM: Inauguration 11.45 AM - 12.00 PM: Tea/Coffee Break 12.00 PM - 01.00 PM: Lecture on "Electroactive Polymer based Photo-power Cell" By Dr. Pradip Thakur, Department of Physics, Netaji Nagar College for Women 01.00 PM - 01.30 PM: Lecture on "Cyclic Voltammetry (CV): Theory and Applications" By Dr. Putul Malla Chowdhury, Department of Physics, Netaji Nagar College for Women 01.30 PM - 02.00 PM: Demonstration on "Fabrication of Polymaric Photo-power Cell" By Dr. Farha Khatun, Department of Physics, Basanti Devi College 02.00 PM - 2.45 PM: Lunch Break 02.45 PM - 03.15 PM: Demonstration of "Cyclic Voltammetry (CV) Instrument (PG Lyte-1.0) and Data Record." 03.15 PM - 03.45 PM: Demonstration of " Digital Multimeter ( DMM-6500, Keithley)" 03.45 PM - 4.00 PM: Tea Break 04.00 PM - 04.30 PM: Vote of Thanks and Certificate Distribution



### One Day Research Training Programme on

#### "Fabrication and Experimental Techniques of Self-Charged Power Cells"

(Under Scientific Social Responsibility (SSR) Policy of SERB)

Organized by: Department of Physics, Netaji Nagar College for Women, Kol-92

#### **Registration Sheet**

Date: 04/01/2023

SL. No	Name	Affiliation	Contact (Mobile & Email)	Signature
1.	Sanoar Molla	Rammohan College	9163530503	Sanour Holla
2.	Dr. Prosenjit Biswas	Kalimpong College	9735980873	P. Diswas 4.1.23
3.	Md. Minarul Saikh	Govt. General Degree College at Pedong, Kalimpong	8013972856	M. saikh
4.	Dr. Farha Khatun	Basanti Devi College	9163643526 fashe what	Farha Whatn
5.	Nowsad Shaikh	Netaji Nagar College for Women	9123030885	Nowsel Shortely
6.	Subhobrata Banerjee	Netaji Nagar College for Women	9903467307 banerjægubhobr atalog mili com	Subhobrata , Banuyn
7.	INDRAJIT MONDAL	JADAVPUR UNIVERSITY	Abse	
8.	Ujjwal Rajak	Netaji Nagar College for Women	9432541854 vjj walrajak@ gnail.com	Ujiwal Rajok
9.	Dr. Soumya Kanti Hazra	Indian Institute of Technology, Patna	Abs	erd
10.	Nirmal Baugh	Netaji Nagar College for Women	8016766609 nimmalbaugh@ gmail.com	Nirmal Baugh.
11.	Dr.Putul Malla Chowdhury	Netaji Nagar College for Women	9475021211 putularunggmai	Putul Malla Chowdhay
12.	Dr. Barun Kr. Pal	Netaji Nagar College for Women	termineterborun	rela
13.	Dr. Niranjan Jaladas	Netaji Nagar College for Women	9836648360 njaladas@gmil.com	Neianjan Jaladas
14.	SAMIRAN KORA	Netaji Nagar College for Women	8637385655 Samina kan	Smina han
15.	Charu Chand Hansda	Netaji Nagar College for Women	9064789739 handachary85 Qyman.com	Charrichanof Herritz

# One Day Research Training Programme on

# "Fabrication and Experimental Techniques of Self-Charged Power Cells"

(Under Scientific Social Responsibility (SSR) Policy of SERB)

Organized by: Department of Physics, Netaji Nagar College for Women, Kol-92

**Registration Sheet** 

Date: 04/01/2023

SL.	Name	Affiliation	Contact (Mobile & Email)	Signature
16.	MOUSUMI BISWA		8777053159	Bure
17.	LIPIKA DATTA	Actociate Prof Netaji Nagan Colley	8240100620	Lolla
18.	CHAITALI BHATTACHARIC	ENNOW.	7423 8 88 322	Claitali
19.	MOUMITA PRAMANIN	Ast. Prof. Philospy NNa	8240745488	Grama / 4/1/23
20.	DEBARATI MAITY	Asst. Prof. English NNCW	7278271361	Driverty 4/1/23



# Netaji Nagar College for Women

170/13/1 N.S.C Bose Road, Kolkata – 700092



#### **CERTIFICATE OF PARTICIPATION**

This is to certify that Dr./Sri/Smt
ofhas successfully
participated / presented a lecture in the One Day Research Training Program on "Fabrication and
Experimental Techniques of Self-Charged Power Cells" on 4th January, 2023 organized by
Department of Physics, Netaji Nagar College for Women, Kolkata and Sponsored by SERB,
Govt. of India (EEQ/2019/000340).

Bradip Thakwr

Dr. Pradip Thakur Convenor

Dr. Tapan Kumar Ghosh Principal

3 hoch