

List of Students Undertaking Research Project: (M.Sc(Hons.) Physics)

Reference No. : SSBSU/UIS/PS/2022/ 129 (b)

Date: 9/12/2022

Academic Session:2021-2022

Name Of Institute: University Institute of Sciences

Name Of Department: Physical Sciences

Total Number of students in the Programme: 7

Total Number of students undertaking Research Project*: 7

Percentage of students undertaking Research Project:100%

S. No	Program Code	Programme Name	Students Registration No.	Name of the Students	Project Title	Project Duration	Supervisor/ Advisor	Place where Research was conducted
1	PG037	MSc(H) Physics	20098001	Inderjeet	Synthesis and characterization of potassium ferrite (KFeO ₂) nanoparticles for tandem solar cell	July2021-June 2022	Dr. Ankush Kumar	SBBSU
2	PG037	MSc(H) Physics	20098004	Manpreet Kaur	Investigation of hematite nanoparticles: structural, optical, and photocatalytic properties	July2021-June 2022	Dr. Ankush Kumar	SBBSU
3	PG037	MSc(H) Physics	20098005	Faheem UR Riyaz Haji	Structural, optical, and photocatalytic properties of bismuth oxychloride	July2021-June 2022	Dr. Ankush Kumar	SBBSU
4	PG037	MSc(H) Physics	20098006	Manjeet	Synthesis and characterization of nickel oxide nanoparticles as efficient hole transport material for perovskite solar cell	July2021-June 2022	Dr. Ankush Kumar	SBBSU
5	PG037	MSc(H) Physics	20098007	Janvi Mahajan	Study of unique features of triaxial superdeformed band in ¹⁶⁵⁻¹⁶⁸ Lu	July2021-June 2022	Dr. Honey Sharma	SBBSU
6	PG037	MSc(H) Physics	20098008	Ranjna Khajuria	Study of structural properties of triaxial superdeformed band of ^{163,164} Lu in A=160 mass region	July2021-June 2022	Dr. Honey Sharma	SBBSU
7	PG037	MSc(H) Physics	20098009	Raju Singh	Rotational properties of superdeformed band in A=190 mass region	July2021-June 2022	Dr. Honey Sharma	SBBSU

*Completion certificate from the organization where the research project was completed is to be submitted as proof.

*One student involved in multiple field works and/or research projects and/or internship should be counted as one.

*Report of the field visit/ sample photographs of the field visit/mission letter from the competent authority only will be considered.

Signature of Coordinator/In-charge/Head of the Department

Name of Coordinator/In-charge/Head of the Department

Dr. Nabeela

Signature of Dean of Institute

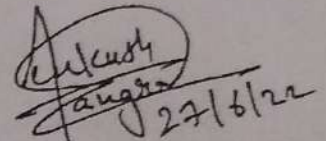
Name of Dean of Institute

CERTIFICATE

This is to certify that the present work entitled "Synthesis and characterization of potassium ferrite ($KFeO_2$) nanoparticles for tandem solar cell" is a bonafide work carried out by Inderjeet, student of M.Sc. (Hons.) Physics conducted in the Department of Physical Sciences, Sant Baba Bhag Singh University Jalandhar, Punjab under my guidance towards the partial fulfillment of the degree in M.Sc. (Hons.) Physics during the academic year 2020-2022. This work has not been published or submitted elsewhere for the award of any degree.

DATE: 27-06-2022

PLACE: Jalandhar



Dr. ANKUSH KUMAR

Assistant Professor (Physics)

Department of Physical Sciences

Sant Baba Bhag Singh Jalandhar-144030

CERTIFICATE

This is to certify that the present work entitled "*Investigation of Hematite Nanoparticles: Structural, Optical and Photocatalytic Properties*" of is a bonafide work carried out by Manpreet Kaur, student of M.Sc. (Hon's) Physics, Sant Baba Bhag Singh University, Jalandhar under my guidance towards the partial fulfilment of the degree in M.Sc. (Hon's) Physics during the academic year 2021-2022. This work has not been published or submitted elsewhere for the award of any degree.

Date: 27/06/2022

Place: Jalandhar



Dr. Ankush Kumar

Assistant Professor (Physics)

Department of Physical Sciences

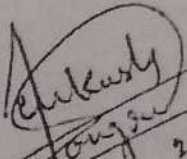
Sant Baba Bhag Singh University, Jalandhar-144030

CERTIFICATE

This is to certify that present work entitled "STRUCTURAL, OPTICAL AND PHOTOCATALYTIC PROPERTIES OF BISMUTH OXYCHLORIDE" is a bonafide work carried out by FAHEEM UR RIYAZ student of M.Sc. Physics, SANT BABA BHAG SINGH UNIVERSITY JALANDHAR under my guidance towards the partial fulfillment of the degree in M.Sc. Physics during the academic year 2020-2022. This work has not been published or submitted elsewhere for the award of any degree.

DATE: 25-June-2022

PLACE: Jalandhar


25/6/22

Dr. Ankush Kumar

Assistant Professor (Physics)

Department of Physical Sciences

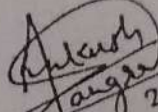
Sant Baba Bhag Singh Jalandhar-144030

CERTIFICATE

This is to certify that the present work entitled "Synthesis and characterization of nickel oxide nanoparticles as efficient hole transport material for perovskite solar cell" is a bonafide work carried out by Manjeet, student of M.Sc. (Hons.) Physics conducted in the Department of Physical Sciences, Sant Baba Bhag Singh University Jalandhar, Punjab under my guidance towards the partial fulfillment of the degree in M.Sc. (Hons.) Physics during the academic year 2020-2022. This work has not been published or submitted elsewhere for the award of any degree.

DATE: 27-06-2022

PLACE: Jalandhar


27/6/22

Dr. Ankush Kumar

Assistant Professor (Physics)

Department of Physical Sciences

Sant Baba Bhag Singh Jalandhar-144030



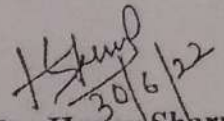
SANT BABA BHAG SINGH UNIVERSITY
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CERTIFICATE

This is to certify that the present work entitled "STUDY OF UNIQUE FEATURES OF TRIAXIAL SUPERDEFORMED BAND IN $^{165-168}\text{LU}$ " is a bonafide work carried out by Janvi Mahajan, student of M.Sc. (Hon's) Physics, SANT BABA BHAG SINGH UNIVERSITY, JALANDHAR under my guidance towards the partial fulfilment of the degree in M.Sc. (Hon's) Physics during the academic year 2021-2022. This work has not been published or submitted elsewhere for the award of any degree.

Date: 30-6-2022

Place: Jalandhar


30/6/22
Dr. Honey Sharma

(Supervisor)

Assistant professor (Physics)

Department of Physical Sciences

Sant Baba Bhag Singh University, Jalandhar-144030



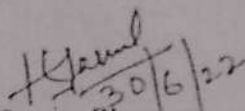
SANT BABA BHAG SINGH UNIVERSITY
Established vide Sant Baba Bhag Singh University Act, 2014

CERTIFICATE

This is to certify that the present work entitled "Study of structural properties of triaxial superdeformed bands of $^{163,164}\text{Lu}$ in $A=160$ mass region" is a bonafide work carried out by Ranjna Khajuria, student of M.Sc. (Hon's) Physics, Sant Baba Bhag Singh University, Jalandhar under my guidance towards the partial fulfilment of the degree in M.Sc. (Hon's) Physics during the academic year 2021-2022. This work has not been published or submitted elsewhere for the award of any degree.

Date: 30-06-2022

Place: Jalandhar


30/6/22
Dr. Honey Sharma
(Supervisor)

Assistant Professor (Physics)

Department of physical sciences

Sant Baba Bhag Singh University, Jalandhar, 144030



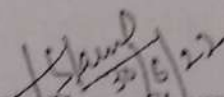
SANT BABA BHAG SINGH UNIVERSITY
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CERTIFICATE

This is to certify that the present work entitled "ROTATIONAL PROPERTIES OF SUPERDEFORMED BANDS IN A~190 MASS REGION" is a bonafide work carried out by RAJU SINGH, student of M.sc (Hons.) Physics, SANT BABA BHAG SINGH UNIVERSITY, JALANDHAR under my guidance towards the partial fulfillment of the degree in M.Sc. (Hons.) Physics during the session 2021-2022. This work has not been published or submitted elsewhere for the award of any degree.

Date: 30-06-22

Place: Jalandhar


Dr. Honey Sharma

Assistant Professor (Physics)

Department of Physical Sciences

Sant Baba Bhag Singh University, Jalandhar-144030