



MAHESH KUMAR

RESEARCH INTEREST

- Lead-Free ferroelectrics material
- Ferroelectrics and Piezoelectric
- Optoelectronic devices
- DFT calculation
- Energy storage devices
- Crystallography

EDUCATION

2019-2021

MSc. in Physics

Department of Physics
Institute of Technology, Indore

Related Projects :-

Structural and electronic
properties of perovskite Rare-
earth Transition metal oxides

Focus On :-

Composition doped in NiO for
junction and theoretical
analysis (DFT).

Pyroelectric Synthesis of the
Site-specific Au/Pt - NiO
Nanorod Array with
Enhanced Photocatalytic
Performance.

Pyroelectric Synthesis of
Au/Pt Bimetallic
Nanoparticles ZnTiO₃
Hybrid Nanomaterials.

Student Organization or Club Member :-

Avna , Alumin cell

ABOUT ME

WORK EXPERIENCE :-

5 Year Teaching Experience (+2
class)

Teaching Subject :-

Physics, mathematics

LANGUAGES :-

ENGLISH

HINDI

Residential Address :-

Homi Bhabha hostel, IIT Indore,
Khandwa road, Simrol, MP,
India, 453552

Permanent Address:-

Pushpnagar shrimadhopur, sikar
Rajasthan, India, 332715

msc1901151019@iiti.ac.in

mk9845676@gmail.com

➤ Phone

➤ +91 7062493097

REFEREES

Dr. Somaditya Sen
Associate Professor
Department of Physics
Indian Institute of technology
Indore
Email: sens@iiti.ac.in
Phone : +918839799363

Experience of Machines :-

XRD
UV-Vis
FE-SEM
FTIR
Raman Spectroscopy
(temperature dependent)

Dielectric (Temperature dependent)

Lighting Sensing
Thin Film
Sputtering
Hall Effect
Furnace

COMPLETED PROJECTS

- Study of structure property relation in ZTO based material using experimental
- Application of ZTO based material as optoelectronic device
- Structural and Optical Properties of Al/Li doped NiO with different Concentration
- Synthesis of Materials using Sol-Gel Technique
- Rietveld Refinement and structural analysis
- Raman spectroscopy, band gap, Light Sensing, Electroluminescence, Pressure dependent I-V

WORKSHOPS

2020 (NOV.)

EXPERIMENTAL METHODS IN ANALYTICAL ELECTROCHEMISTRY AND ADVANCED CHEMICAL ENGINEERING at Ujjain Engineering College, Ujjain, INDIA

Undergraduate

2012-2015

University of Rajasthan
Percentage-64.8

Completed coursework in subject :-

English, Hindi, Physics, Chemistry, Mathematics

Student Organization or Club

Member :-

Robin Hood Army ,Student Union

Sports :-

Chess winner, Treasure Hunt winner, Athletic

2010-2012

2009-2010

Intermediate Science

MK Senior Secondary School,
BSER Rajasthan
Percentage-81.40

Completed coursework in subject :-

English, Hindi, Physics,
Chemistry, Mathematics

Matriculation

Bal Bharti Sec. School, BSER, Rajasthan
Percentage-82.17

Completed coursework in subject :-

English, Hindi, Science, Social Science, Sanskrit
Mathematics

Skill

Time Management
Team Building
Communication

HOBBIES

Cricket, Running, Volleyball, GYM,

JAM 2019 SCORECARD

JOINT ADMISSION TEST FOR M.Sc.

Indian Institute of Technology Kharagpur



CANDIDATE'S DETAILS

Name : **MAHESH KUMAR**

Registration Number : **PH313F287**



CANDIDATE'S PERFORMANCE

Test Paper (Code)	Number of Candidates Appeared in Test Paper	Marks Scored (out of 100)	All India Rank
Physics (PH)	15501	50.67	728

QUALIFYING MARKS*

	GEN	OBC (NCL)	SC/ST/PwD
Physics (PH)	24.99	22.49	12.49

* A candidate is considered qualified if the Marks Scored are greater than or equal to the Qualifying Marks mentioned for the category, for which a valid category certificate, if applicable, is to be produced along with this scorecard.

02-April-2019

Digital Signature: **e1d49449aff01ce5b57ed8945eb25fd2**


Prof. Manjunatha Mahadevappa
Organizing Chairperson, JAM 2019

- Candidates should note that qualifying or being on the merit list of any test paper neither guarantees nor entitles one to admission at IITs and IISc.
- Candidates who have qualified in JAM 2019 can apply for admission to programs to which they are eligible only in the academic year 2019-20 at IITs and IISc.
- For admission to various programs, the qualified candidates have to submit admission form ONLINE at the JAM Online Application Processing System website (joaps.iitkgp.ac.in) between 11-April-2019 and 24-April-2019 with all the relevant documents. There is NO need to send a hard copy of the admission form/documents. Only those applications that are complete in all respects and have been properly submitted/uploaded within the stipulated time and date will be considered
- Upon applying, offers will be made to candidates based on the order of merit, the candidate's choice(s) and the number of seats available at the admitting institute(s). Those candidates have to satisfy the Eligibility Requirements (ERs) and Minimum Educational Qualifications (MEQs) of the programme(s) of the admitting Institute(s). The fulfilment of ER & MEQ is decided by the department offering the programme and the prerogative to accept/reject the candidate remains with the department.
- For latest updates on ER, MEQ and other admission related information, candidate must refer to the JAM 2019 official website, <http://jam.iitkgp.ac.in>, and the Information Brochure available there.
- The authenticity of the contents of this Scorecard may be verified with the Organizing Chairperson, JAM 2019, GATE-JAM Office, IIT Kharagpur, Kharagpur, West Bengal 721302.
- Information given in this Scorecard should not be used by any person/Institute without prior permission of the Organizing Chairperson, JAM 2019.



BOARD OF SECONDARY EDUCATION RAJASTHAN, AJMER

Advisory Note to the Candidate for Eligibility in Scholarship for Higher Education (SHE) Component under INSPIRE Scheme

It is declared / certified that Mr / Mrs .MAHESH KUMAR.....Roll No.1216513..... ward of Shri .GOVIND RAM SAINI.....qualifies for award of Scholarship for Higher Education (SHE) under Innovation in Science pursuit for Inspired Research (INSPIRE) by virtue of performance within top 1% of the school Board at Class XII level in the examination held during the academic session ending March / April 2012.

Performance in top 1 % in Class XII Board Examination and enrolment into education in Basic and Nature Science courses at BSc / Integrated Msc or MS levels qualify eligibility automatically for scholarship for Higher Education of GOI value at Rs. 80,000 per year for five years.

If enrolling into bachelor of Integrated Master's level programmes in basic and natural Science courses [like Mathematics or Statistics or Physics or Chemistry or Life Science (Botany or Zoology)] in any University or College in India recognized by UGC, India, the candidate is advised to register in Scholarship for Higher Education (SHE) through on-line registration at <http://www.inspire-dst.gov.in/requirement.html> or through an application to the Department of Science and Technology <http://www.inspire-dst.gov.in/Inspire-Advertisement.pdf> by down loading the application and attaching this advisory Note and avail the eligibility for scholarship.

Economically weaker segments whose parental income is below the per capita of the national average income of the country could be considered for advance releases if other otherwise qualified.

applicant number online - VII 31/161201

(M. R. Sharma)
Secretary



DEPARTMENT OF CHEMICAL ENGINEERING
UJJAIN ENGINEERING COLLEGE, UJJAIN (M.P)

CERTIFICATE

This is to certify that **Mr. Mahesh Kumar** from **IIT Indore** has participated TEQIP-III sponsored **THREE DAY ONLINE WORKSHOP** on **“EXPERIMENTAL METHODS IN ANALYTICAL ELECTROCHEMISTRY AND ADVANCED CHEMICAL ENGINEERING”** conducted during November, 23 - 25, 2020, organized by **Department of Chemical Engineering, Ujjain Engineering College, Ujjain.**

Prof. B Francis
Coordinator

Dr. N Singh
Coordinator

Dr. L S Thakur
Coordinator

Dr. A K Dwivedi
Convenor & HOD

Dr. Sunil Punjabi
TEQIP Coordinator

Dr. Atul Sthapak
Principal



UNIVERSITY MAHARAJA COLLEGE

UNIVERSITY OF RAJASTHAN, JAIPUR

UNIVERSITY MAHARAJA'S COLLEGE, JAIPUR

170TH FOUNDATION DAY

CERTIFICATE

This is to certify that Mr. Mahesh Kumar S/o Shri. Govind Ram Saini
of B.Sc./B.A Part II 2013-14 participated and secured 1 Position in Treasure Hunt Competition
during 170th Foundation Day celebration.

Bhatnagar
Principal

GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY

Department of Science & Technology
Technology Bhavan, New Mehrauli Road, New Delhi-110016
Do No: DST/ INSPIRE Scholarship/2012



Date: February 18, 2013

Subject: Award of INSPIRE Scholarship for the year 2012

Dear MAHESH KUMAR,

On the basis of your application submitted under **Scholarship for Higher Education (SHE)** component of the scheme: **Innovation in Science Pursuit for Inspired Research (INSPIRE)**, I am delighted to inform that you have been provisionally selected for the award of INSPIRE Scholarship for the period starting 2012, which is the year of your enrollment in B.Sc/ Int. MSc/ MS Course. Your INSPIRE Scholarship Registration Number is **7672/2012**.

The total amount of the Scholarship is Rs 80,000/- per annum, out of which Rs 20,000/- per year shall be utilized for expenses towards your attachment with other research/academic institutions. This Scholarship will be available for 5 years to complete M.Sc/ MS course, provided you continue to maintain your academic excellence and performance. The Scholarship will be provided directly to you through State Bank of India (SBI) to your bank account.

To facilitate the transfer of Scholarship to your bank account, you are requested to open a Savings Bank Account in your name only, at any branch of State Bank of India (SBI) in the country. Please note that joint account or account in Banks other than SBI will not be accepted. Upon opening of the Savings Bank account at SBI only (even not its subsidiary), you may please fill up the pro-forma available on our website (http://www.inspire-dst.gov.in/SHE_profarma_SBI_bank_details.html) with the requisite information and send the same at the address mentioned below for further action, within 45 days.

It is to be noted that only upon the successful completion of your first year course in Basic/ Natural Science and its continuity in the second year, the scholarship will be paid together for the first two years at the second year, subject to receipt and verification of the 1st year Mark-sheet and Performance Report to be obtained from the College/ Institute.

It is therefore requested to send your first year annual Performance Report and Mark-Sheets (two semesters) after the announcement of the respective first year examination results. The blank format of the Performance Report may be downloaded from our website (http://www.inspire-dst.gov.in/SHE_Performance_Report.pdf).

Both documents related to the i) Opening of the Bank Account (within 45 days) and ii) Mark-sheet with Performance Report (after declaration of the result) shall be sent to **INSPIRE Cell, National Institute of Science, Technology and Development Studies (NISTADS), Dr. K.S Krishnan Marg, New Delhi-110012 by Ordinary Post only.**

Please note that a student cannot avail more than one scholarship at any time. Further, on acceptance of the INSPIRE scholarship by a student, switching over to KVPY is not allowed at any stage.

With best regards,

Dr. S.V Prasanna
Scientist 'B'
DST

MAHESH KUMAR
C/o: GOVIND RAM SAINI
Add: DHANI-BHARALI WARD NO. 24 PUSHP NAGAR SRIMADHOPUR
DIST. SIKAR RAJASTHAN
City: SRIMADHOPUR
State/UT: Rajasthan-332715