

PATNA WOMEN'S COLLEGE
Autonomous
PATNA UNIVERSITY
4th Cycle NAAC Accredited at 'A++' Grade
'College with Potential for Excellence' (CPE) Status Accorded by UGC

Schedule for Basic Scientific Research (BSR) Presentation - 2025

Date of PowerPoint Presentation: 18.01.2025
Area Coordinator : Dr. Shobha Shrivastava

Time: 10:00 A.M. to 12:30 P.M.
Venue : MVEIC Hall

Subject/ Department	Sl. No.	Topic	Student's Name	Supervisor
Mathematics (UG)	1.	Cancer Treatment with Radiation Therapy Using Mathematical Modelling	<ul style="list-style-type: none"> • Mihika Vats • Tejaswani Anand • Priyanshu Kumari 	Dr. Ravi Kumar
	2.	Comparative Study of Numerical Techniques for Solving Ordinary Differential Equations with Initial Conditions	<ul style="list-style-type: none"> • Noor Afshan • Anshu Priya • Prerna Raj • Priya Kumari 	Dr. Julee Sahani
	3.	Real Life Application Of Linear Programming Problem In E-Commerce Logistics	<ul style="list-style-type: none"> • Afrozy Praveen • Nancy Rani • Madhu Bharti 	Jaya Bhushan
Physics (UG)	4.	Synthesis and characterization of Cadmium Substituted Copper Nano-Ferrites	<ul style="list-style-type: none"> • Tanvi Kumari • Divya Bharti • Sneha Kumari 	Dr. Kavita Verma
	5.	Synthesis & Characterization of Copper Oxide Nanoparticles doped with Carbon	<ul style="list-style-type: none"> • Jyoti Kumari • Shital Kumari • Simran Kumari 	Dr. Amrita
	6.	Development of ZnO thin film by Chemical Bath Deposition Technique	<ul style="list-style-type: none"> • Kaushiki Kumari • Ananya Pandey • Tulika Rani 	Dr. Lalit Kumar Sharma
	7.	Bio-Synthesis of Nanoparticles of Curcumin using Raw Turmeric	<ul style="list-style-type: none"> • Khushi Pandey • Sanya Kumari • Shilpi Kumari 	Dr. Riekhshika Sanwari
	8.	Air pollution control device : Air Pollution to INK	<ul style="list-style-type: none"> • Shreya Singh • Khushi Pratik • Sheetal Bharti 	Mr. Dharmendra Rai
9.	Password Based Door Lock Security System Using Arduino & Keypad	<ul style="list-style-type: none"> • Sandhya Kumari • Sanaya Shauque • Arti Kumari 	Mr. Dharmendra Rai	

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Schedule for Basic Scientific Research (BSR) Presentation - 2025

Date of PowerPoint Presentation: 21.01.2025

Time: 10:00 A.M. to 12:30 P.M.

Area Coordinator : Dr. Shobha Shrivastava

Venue : MVEIC Hall

Subject/ Department	Sl. No.	Topic	Student's Name	Supervisor
Microbiology (UG)	1.	Investigation of antimicrobial effects of silver nanoparticles and the influence of temperature variation on bacterial isolates	<ul style="list-style-type: none"> • Saumya Sinha • Umea Kulsum • Shambhavi Upadhyay 	Dr. Jaya Philip
	2.	Study of antagonistic effect of plant growth promoting rhizobacteria against a phytopathogen <i>Aspergillus</i>	<ul style="list-style-type: none"> • Shubhangi Kumari • Ariba Khan • Aarya Shree 	Dr. Preeti Swarupa
	3.	Isolation and screening of chromium resistant bacteria from industrial waste for bioremediation purposes	<ul style="list-style-type: none"> • Aditi Sinha • Gufrana Azad • Bushra Tanjeem 	Dr. Niti Yashvardhini
	4.	Isolation and characterization of <i>Bacillus</i> species from river Ganga and its application in Wastewater treatment	<ul style="list-style-type: none"> • Megha Kumari • Stuti Singh • Aditi Anand 	Dr. Jaya Philip
	5.	Isolation and characterization of organophosphate pesticides degrading bacteria	<ul style="list-style-type: none"> • Shivani Kumari • Ananya Priyadarshini • Sanya Himalaya 	Dr. Swetnisha
	6.	Study of production and Extraction of Carotenoids from Microorganisms	<ul style="list-style-type: none"> • Aditi Chauhan • Sada Nizami • Aadrika 	Dr. Swetnisha
Botany (UG)	7.	Comparative analytical study of fresh honey collected from Honeycomb of <i>Apis mellifera</i> and commercially available Honey	<ul style="list-style-type: none"> • Trisha Verma • Tanu Priya • Simran Kumari 	Dr. Pinky Prasad
	8.	Extraction of bioethanol from algae	<ul style="list-style-type: none"> • Payal • Anishka Kanishk • Kajal Kumari 	Dr. Pinky Prasad

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Botany (UG)	9.	Formulation of Herbal Soap using extract of <i>Solanum Xanthocarpum</i>	<ul style="list-style-type: none"> • Divya Rani • Jigisha Kumari • Ishika Sharma 	Dr. Urvashi Sinha
	10.	Phytochemical study and antimicrobial analysis of <i>Eupharbia milli</i> extracts	<ul style="list-style-type: none"> • Alshura Salsabeel • Pooja Singh • Sahiba Hussain 	Dr. Piyush Kumari Rai
	11.	Bioconversion of Sugarcane Biomass into Ethanol	<ul style="list-style-type: none"> • Shruti Kumari • Nishu Kumari • Harshita 	Dr. Anjana Verma
	12.	In-vitro anti-bacterial activity of selected medicinal plants against uropathogenic <i>Escherichia coli</i> (UPEC)	<ul style="list-style-type: none"> • Richa Kumari • Vandana Kumari • Manisha Kumari 	Dr. Piyush Kumari Rai

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Schedule for Basic Scientific Research (BSR) Presentation - 2025

Date of PowerPoint Presentation: 20.01.2025
Area Coordinator : Dr. Shobha Shrivastava

Time: 10:00 A.M. to 12:30 P.M.
Venue : MVEIC Hall

Subject/ Department	Sl. No.	Topic	Student's Name	Supervisor
Zoology (PG)	1.	Efficiency of antibacterial and antifungal properties of Nicotiana tobacum L.Var Virgiana Prolysis extract on Escherichia coli and Staphylococcus aureus and Pseudomonas aeruginos	<ul style="list-style-type: none"> • Sandhya Rani • Aditi Singh • Ayushi Raj 	Dr. Sumeet Ranjan
	2.	Efficacy of antibacterial and antifungal properties of microalgae against skin pathogens	<ul style="list-style-type: none"> • Kumari Aditi Singh Rathour • Supriya Kumari • Aaradhya Sinha 	Dr. Sumeet Ranjan
Zoology (UG)	3.	Efficiency of Nicotine as biofertilizer on soil health and nutritional quality of crops grown <i>Capsicum frutescens</i>	<ul style="list-style-type: none"> • Aisha Siddiqua • Ayesha Jamal 	Dr. Sumeet Ranjan
	4.	Assessment of heavy metal contamination in raw honey collected from local markets of Patna	<ul style="list-style-type: none"> • Diksha • Sweta Supriya • Sweta Jha 	Dr. Sumeet Ranjan
	5.	Evaluation of Antimicrobial Properties of Blue, Red and UV light for effective Decontamination of Toothbrushes against common pathogens	<ul style="list-style-type: none"> • Ayushi Rani • Shruti Solomon • Nirupama Soreng 	Dr. Sapna Kumari
	6.	A Research Proposal on the topic Unveiling the Adulterants : The impact of contaminants in edible oils and ghee	<ul style="list-style-type: none"> • Alishba Shaheen • Fiza Khanam • Mahvesh Rizwan 	Mr. Rajeev Ranjan
	7.	Assessment of Microbial Contamination and Quality Parameters in Packaged Cow's Milk : A Comparative Study Across Different Brands	<ul style="list-style-type: none"> • Sakshi Soni • Chhavi Swasti • Khushi Kashyap 	Mr. Rajeev Ranjan

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Schedule for Basic Scientific Research (BSR) Presentation - 2025

Date of Power Point Presentation : 17.01.2025

Area Coordinatoor : Dr. Shobha Shrivastava

Time : 10:00 A.M. -12:30 P.M.

Venue : MVEIC Hall

Subject/ Department	Sl. No.	Topic	Student's Name	Supervisor
Statistics (UG)	1.	Exploring Stock Market Behaviour through Time Series Modelling	<ul style="list-style-type: none"> • Abhilasha Kumari • Muskan Kumari • Ridhi Kumari 	Dr. Amit Kumar
	2.	Development of Biodegradable flower Pot from plant materials.	<ul style="list-style-type: none"> • Shahin Parveen • Trishna Kumari 	Dr. Jyotsana Kumari
Chemistry (UG)	3.	Determination of heavy metals in fruits and vegetables across different regions of Bihar	<ul style="list-style-type: none"> • Shruti Pandey • Akanksha Kumari • Muskan Kumari 	Dr. Madhu Rani Sinha
	4.	Formulation of face serum using different eco-friendly materials such as (Tomato, Bermuda Grass and Potato)	<ul style="list-style-type: none"> • Aditi Singh • Aastha • RajLaxmi Kumari 	Dr. Nandini Kumari
	5.	Extraction and Formulation of Perfume from Plants	<ul style="list-style-type: none"> • Harshita Singh • Sakshi Pandey • Shaili Chaudhary 	Dr. Ashish Kumar
	6.	Formulation of herbal pain relief balm using extracts of different medicinal Plants	<ul style="list-style-type: none"> • Pushpanjali • Ruhi Nishat • Akriti Kumari 	Dr. Jyoti Chandra
	7.	Extraction of saccharides from agricultural waste and their filtration using nanofiltration	<ul style="list-style-type: none"> • Yukti • Manali Kumari 	Rabindra Nath Roy Majumdar

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Area Coordinatoor : Dr. Shobha Shrivastava

Time : 10:00 A.M. -12:30 P.M.
Venue : MVEIC Hall

Subject/ Department	Sl. No.	Topic	Student's Name	Supervisor
Biotechnology (PG)	1.	Detection of Pesticides and microplastic contents in brands of milk and sugar collected from market of Patna	<ul style="list-style-type: none">• Jaisy Patel• Supriya• Annu Kumari	Dr. Arti Kumari
	2.	Evaluation of Chemical & Biological Washing Agents as a Treatment to Mitigate Heavy Metal (Lead) Residues in Spinach cultivated in Patna	<ul style="list-style-type: none">• Honey Singh• Sadia Siddique• Erika Sharma	Dr. Vivek Raj
	3.	Isolation, Characterization and Health Benefit Evaluation of Probiotic Strains	<ul style="list-style-type: none">• Wajiha Saadi• Shruti Kumari• Suman Kumari	Dr. Arti Kumari
	4.	Comaparative analysis of antimicrobial activity of fruit peel extracts against pathogenic microbes	<ul style="list-style-type: none">• Raushabhi Sinha• Anshika Singh• Fatima Khan	Dr. Premlata Kumari

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