



NAAC "A"



**OHEPEE – IDP Sponsered
One week Short term Course
Faculty Development
Programme on**

MICROBIOLOGY & IMMUNOLOGY

9th–13th July 2023

Organized by:

**PG DEPARTMENT OF BIOTECHNOLOGY,
Maharaja Sriram Chandra
Bhanja Deo University**

Vennue: PG Department of Biotechnolgy,
MSCB University

website: www.nou.nic.in



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About The University

The Maharaja Sriram Chandra Bhanja Deo University (MSCB University), formerly North Orissa University (NOU) was established by the Government of Orissa, under the Section 32 of the Odisha University Act, 1989 (Act 5 of 1989), vide notification No. 880 dated 13th July 1998. It was carved out of the Utkal University and became operational since 1999 at Takatpur (98.84 acres) of Baripada in the Mayurbhanj District of Odisha as an affiliating university. The University is recognized by the University Grants Commission under Sections 2(f) and 12(B) of UGC Act, 1956 with effect from 15th February 2000 and 21st June 2006, respectively. The territorial jurisdiction of the university extends over Mayurbhanj and Keonjhar districts of the northern part of Odisha, thickly populated with tribal communities. MSCBU's jurisdiction covers 110 colleges (Mayurbhanj-68 + Keonjhar-42) including 3 Autonomous Colleges, 2 Law Colleges, 1 Medical College, 3 Teachers' Education (B.Ed.) Colleges (including one specially for physically challenged) imparting education to a large number of students at the graduate and post-graduate levels. MSCBU is recognized by Bar Council of India, DEC, IGNOU, NCTE and included in the list of Association of Indian Universities and Association of Commonwealth Universities.

About the Post-Graduate Department of Biotechnology

The Department of Biotechnology, Maharaja Sriram Chandra Bhanja Deo University (erstwhile North Orissa University) was started in the year 2002 in self finance mode (Aid on Course) with student intake strength of 20 and subsequently increased to 30. Subsequently M. Sc biotechnology course was converted to a regular course/department in 2012 with sanction of 6 faculties (1 Professor, 2 Associate Professors, and 3 Assistant Professor). Besides M. Sc program, Department is undertaking M. Phil and Ph. D programs. Students admitted to two years M.Sc. program are selected through entrance test (this year by common PG entrance test: CPET) Admission into M. Phil and Pre-PhD courses are conducted through entrance followed by viva-voce. Department has achieved the distinction of being DST-FIST sponsored since 2016.

The courses are designed with the objectives to strengthen the basic concepts of life-science and biotechniques. These courses are Cell biology, Microbiology, Immunology, Molecular biology, Instrumentation and applied aspects such as Animal biotechnology, Plant biotechnology, Genetic engineering, Industrial biotechnology and Environmental biotechnology. The faculty members are actively working on various biotechnology related projects/research programs supported by DST, UGC, DAE, Department of Forests, Govt. of Odisha and also through collaboration with different National Research Institution/Universities.

Mission

- To be a centre of excellence in frontier areas of biotechnology.
- To promote international standard of teaching and research in Biotechnology.
- To develop model state of art teaching and research department in the state.
- To foster, promote and train young minds in advanced areas of Biotechnology

Vision

To develop academic environment embedded with interdisciplinary and advanced courses in Biotechnology using a holistic approach to promote teaching and research in high priority societal problems in equilibrium with laboratories and industries of national importance.

About the Programme

One Week Short Course programme on Molecular Microbiology and Immunology aims to expand the theoretical and practical knowledge of faculty members from different life science disciplines especially at undergraduate level. In this programme, sufficient exposure will be given on various basic and applied techniques in both microbiology and immunology used in life science/ bio-medical research through interactive and practice sessions along with theory behind.

Training sessions will be structured in lieu with the topics outlined in the syllabus at graduation level. The topics have been so chosen that the intricacy of research methods and data analysis may be understood by participants. Study materials, handouts, will be shared to each participants for practice and to gain confidence in the concern subjects/fields while teaching, demonstrating and perusing research.

Objectives: The course will explain the fundamental as well as technological advancement in the field of microbiology and immunology. Course materials include resource materials, workbooks, lecture handouts, practical demonstration.

Details of Session (Please give final touch to your the topics)

Date	Session	Guests/Resource Person	Contents
Day 1 (09.07.2023)	Session 1	Dr. B. Ravindran, Former Director, ILS, Bhubaneswar	Inauguration Lead lectures
		Dr. R. C.Ray, Former Director, CTCRI, Bhubaneswar	
	Session 2	Prof. H. N. Thatoi, Professor Dept. of Biotechnology, MSCBU	Basic microbiological techniques in life sciences-I (L)
		Prof. H. N. Thatoi, Professor, Dept. of Biotechnology, MSCBU	Basic microbiological techniques in life sciences-II (L) & (P)
Day 2 (10.07.2023)	Session 1	Dr. S. K. Sahu, Assistant Professor, Dept. of Biotechnology, MSCBU	Recombinant DNA technology (L) & (P)
	Session 2	Mr. Santosh Mohanty Senior Scientist, Imgenex India Pvt. Ltd., Bhubaneswar	Advances in Antigen-Antibody based diagnosis (L) & (P)
Day 3 (11.07.2023)	Session 1	Dr. G. Dhangadamajhi, Assistant Professor, Dept. of Biotechnology, MSCBU	Molecular aspects of Parasitic diseases (L) & (P)
	Session 2	Dr. Bismita Nayak Associate Professor, Dept. of Life Science NIIT, Rourkela	Molecular diversity in antibody generation (L)
		Dr. Javed Akhtar CTO, Imgenex India Pvt. Ltd., Bhubaneswar	Diagnostic immunology (L) & (P)
Day 4 (12.07.2023)	Session 1	Dr. B. Rath, Associate Professor, Dept. of Biotechnology, MSCBU	Microalgae and cyanobacteria for high-value products (L) & (P)
	Session 2	Dr. Sony Pandey, Principal Scientist, IMMT, Bhubaneswar	Molecular tools and techniques in Microbial identification (L)
		Dr. R. Modak Associate Professor, Dept. of Biotechnology, KIIT University, Bhubaneswar	Cloning technique in microbiology (L) & (P)
Day 5 (13.07.2023)	Session 1	Dr. M. Kumar Assistant Professor, Christian College (Autonomous), Chennai	Techniques in Mycological studies (L)
		Prof. B.P. Dash, Former Head, Dept. of Biotechnology, FM University, Balasore	Immuno-haematological indices in disease condition (L)
	Session 2	Dr. P. K. Das Mohapatra, Associate Professor, Dept. of Microbiology, Raiganj University, WB	Basic techniques in Enzyme purification and characterization (L) & (P)

Details of the Short Term course For Faculty Developmental Program on Molecular Microbiology and Immunology

Title of the FDP :	Molecular Microbiology and Immunology
Duration of the Programme :	09.07.2023 to 13.07.2023 (One Week)
Timing of Sessions :	Three sessions per day Lecture Session : 10.00 AM to 1.00 PM Lab Session : 2.00 PM to 5.00 PM Assignment Session : 5.00 PM – 5.45 PM
Eligibility :	Faculty members involved in teaching UG and PG courses in Botany, Zoology, WL & BC, Environmental Sc., Life Science, Microbiology and Biotechnology in various colleges.
No. of Participants :	40-50
Mode of the FDP :	Physical Mode (Offline)
Venue of the Programme :	Department of Biotechnology, MSCB University
Last Date for Registration :	01.07.2023
Registration Fee:	No registration fee
Boarding and Lodging :	Outstation candidates can be given free accommodation. All the participants will be provided working lunch, dinner and snack/tea during the FDP only.



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Registration Link: : <https://forms.gle/SjTEQAdbs3y7qxs6>

Certification: Certificates will be issued subject to the participants qualifying the following conditions:

- Minimum 90% attendance.
- Minimum 50% marks in the evaluation test to be conducted on last day of the programme.

Advisory Committee of FDP

Prof. Santosh Kumar Tripathy, Vice – Chancellor, MSCB University
Prof. H. K. Sahu, Chairman, PG Council, MSCB University
Prof. P. K. Satpathy, Head, PG Department of Chemistry, MSCB University
Prof. M. H. Bindu, Director, IQAC Cell, MSCB University
Prof. S. Kar, Director CDC, MSCB University

FDP Programme Convener

Prof. H. N. Thatoi, Head, PG Department of Biotechnology, MSCB University

FDP Programme Coordinator

Dr. Sukanta Kumar Nayak, Associate Professor, PG Department of Biotechnology, MSCB University

FDP Programme co-Coordinator

Dr. Santosh Kumar Sahu, Assistant Professor, PG Department of Biotechnology, MSCB University

FDP Programme Organizing Team

Prof. H.N. Thatoi, Head, PG Department of Biotechnology, MSCB University
Dr. B. Rath, Assoc. Prof., PG Department of Biotechnology, MSCB University
Dr. Sukanta Kumar Nayak, Associate Professor, PG Department of Biotechnology, MSCB University
Dr. S. Sahu, Assistant Professor, PG Department of Biotechnology, MSCB University
Dr. G. Dhangadamajhi, Assistant Professor, PG Department of Biotechnology, MSCB University

Contact Details:

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REGISTRATION FORM

One week Short term Course
Faculty Development Programme on

MOLECULAR MICROBIOLOGY & IMMUNOLOGY

9th–13th July 2023

Full Name : (Dr./Mrs./Mr./Ms.).....

Designation :

Affiliation :

Address :

.....

Mobile :

Email :

Place :

Date :

Signature of the Candidate

Forwarded by Supervisor/Guide/Head of the Department/Principal

I hereby forwarding the application of Dr./Mr./Ms.

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to enroll in the FDP on "Molecular Microbiology and Immunology" July 09–13, 2023,
organized by PG Dept. of Biotechnology, MSCB University.

Signature of Competent Authority with Seal