



ACROPOLIS
Enlightening wisdom

ACROPOLIS INSTITUTE OF MANAGEMENT STUDIES AND RESEARCH

(Run by: Teach for India Education and Research Samiti)

A.B. Road Bypass, Near Toll Plaza, Manglia Square, Indore (M.P.) - 453771 | Tel: 0731-4730093,

01 Email: aimsr@acropolis.in, Website: www.aimsr.ac.in

Criteria 7.3.1: Institute Distinctiveness

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Institute Distinctiveness Report for NAAC Criteria 7: AIMS

AIMSR is deeply committed to preparing students for a well-rounded future, focusing on academic success, skill development, and personal growth. The institute not only prioritizes academics but also fosters the development of soft skills such as teamwork, leadership, and communication. AIMS recognizes the importance of students' overall well-being and offers various opportunities and resources to ensure their holistic development. Through sports facilities, life skills sessions, and extracurricular activities, the institute ensures that students have the means to lead balanced and healthy lives.

Comprehensive Career Preparation

To prepare students for professional success, AIMS has established several key initiatives and resources. The **Career Development Cell (CDC)**, **Entrepreneurship Development Cell (EDC)**, and **Industry Interaction Cell (IIC)** are dedicated to providing students with the skills and environment they need to explore entrepreneurship or succeed in the professional world. Each of these units plays a vital role in guiding students through their academic journey and career aspirations.

The **Career Development Cell (CDC)** is at the forefront of this effort, helping students achieve their career goals through a combination of academic guidance and practical resources. The CDC's services cover a broad range of activities designed to equip students with the necessary tools for success in the job market. Some of the key services include:

- **Career Counseling:** Personalized sessions where students discuss their career goals, interests, and skills with a counselor. The counselor helps students identify suitable career paths, develop resumes, and prepare for job interviews. This guidance ensures that students are on the right path toward their professional objectives.
- **Personal Grooming Programs:** These workshops focus on developing students' communication skills, business etiquette, and professional image. By teaching students how to present themselves in professional settings, these programs help them build confidence and prepare for workplace interactions.



- **Expert Sessions:** AIMSRS regularly brings in industry professionals and experts from academia to provide insights into various career fields. These sessions allow students to network with professionals and stay informed about industry trends, expectations, and opportunities.
- **Live Industrial Projects:** Students have the chance to work on real-world projects with companies. These projects give students valuable hands-on experience and allow them to apply the knowledge they've gained in the classroom to practical situations. Such experiences enhance their employability and prepare them for real-life challenges in the workforce.
- **Placements:** The CDC plays a crucial role in facilitating job placements. This includes organizing career fairs, connecting students with potential employers, and helping them prepare for interviews. The placement process is streamlined to ensure that students have ample opportunities to land jobs in their desired fields.
- **Infrastructure and Facilities:** AIMSRS provides dedicated career counseling centers, computer labs with industry-standard software, and online resources like job portals and career development websites. These facilities allow students to access the tools and information they need to succeed in their job search.

All these activities under the **Career Development Cell** contribute to the overall career development of students, ensuring they are well-prepared to thrive in their chosen fields.

Holistic Student Development

In addition to its focus on career readiness, AIMSRS is dedicated to the holistic development of its students. The institute takes several measures to ensure that students are well-rounded individuals who are prepared for life's various challenges. Some of the key initiatives that support student development include:

- **Free Transport and Educational Support:** AIMSRS provides free transport facilities, uniforms, and bags to all students. These provisions remove financial barriers and ensure that students can focus on their studies without worrying about logistical issues. Additionally, scholarships are offered to meritorious students, encouraging academic excellence. The institute also awards cash prizes to students with attendance rates of 85% or higher to promote consistent class participation.



- **Internships and Dissertations:** The Department of Biosciences offers a range of internship opportunities to students from other colleges, giving them hands-on experience in their chosen fields. Additionally, the department provides dissertation opportunities for M.Sc. students, allowing them to engage in in-depth research under faculty supervision. These initiatives help students gain practical knowledge and prepare them for future academic or professional endeavors.
- **E-Yuva Scheme:** Under the E-Yuva scheme of BIRAC, Bhopal, first-year B.Sc. students are encouraged to present innovative ideas. This program provides real-time experience and fosters all-around development by challenging students to think creatively and apply their knowledge in new ways.
- **Skill Development Activities:** AIMSР offers a variety of certification courses and value-added programs to ensure that students acquire industry-relevant skills alongside their academic education. These skill development activities make students more competitive in the job market and equip them with practical abilities that are essential in today's industries.
- **Science Magazine "VIGYANAM":** This publication serves as a platform for students to showcase their research, writing, and editing skills. Articles in "VIGYANAM" are written and edited by students under the guidance of faculty members, contributing to the students' academic growth and fostering a sense of collaboration and intellectual curiosity.

Club Activities and Extracurricular Engagement

AIMSR understands that learning extends beyond the classroom, and the institute offers a vibrant club culture that complements academic pursuits. The various clubs at AIMSР offer students the opportunity to explore their interests, develop new skills, and build lasting relationships with their peers. Some of the notable clubs include:

- **Yavnika&Funorbit:** These non-technical clubs provide platforms for students to engage in creative expression through theater productions, dance performances, cultural events, and literary activities. They encourage students to explore their creative talents and participate in community-building events.





- **Sports Club:** The sports club fosters physical fitness and teamwork by offering students the chance to participate in sports like basketball, football, cricket, and badminton. These activities help students develop a competitive spirit and maintain a healthy lifestyle.
- **Literary Club:** A space for bibliophiles and budding writers, the literary club hosts book discussions, creative writing workshops, and debates. It helps students foster a love for language and literature while enhancing their communication skills.
- **Women's Cell:** Empowering women is a central focus of this club. The women's cell provides a platform for open discussions, workshops, and events that address women's issues, celebrate their achievements, and promote gender equality.

On the technical side, AIMSRS offers:

- **Solaris Club:** A hub for tech enthusiasts, this club focuses on activities related to robotics, coding, and app development. By encouraging students to push the boundaries of their technical expertise, the Solaris Club ensures that students stay updated with technological advancements and innovations.

Entrepreneurship and Industry Engagement

AIMSR fosters an entrepreneurial mindset among students by providing resources and mentorship to help them turn their ideas into viable businesses. The **Entrepreneurship Cell** organizes workshops, guest lectures, and other events designed to inspire and equip students with the tools they need to pursue entrepreneurial ventures.

In addition, the **Industry Interaction Cell (IIC)** bridge the gap between academia and industry by offering guest lectures, industrial visits, and workshops. These initiatives allow students to gain valuable insights into the professional world and develop the skills they need to succeed in their careers.

Cultural Integration and Ethical Values

AIMSR places great emphasis on moral and ethical values, which are integrated throughout the curriculum. The institute also incorporates Indian culture and traditions into its teaching, ensuring that





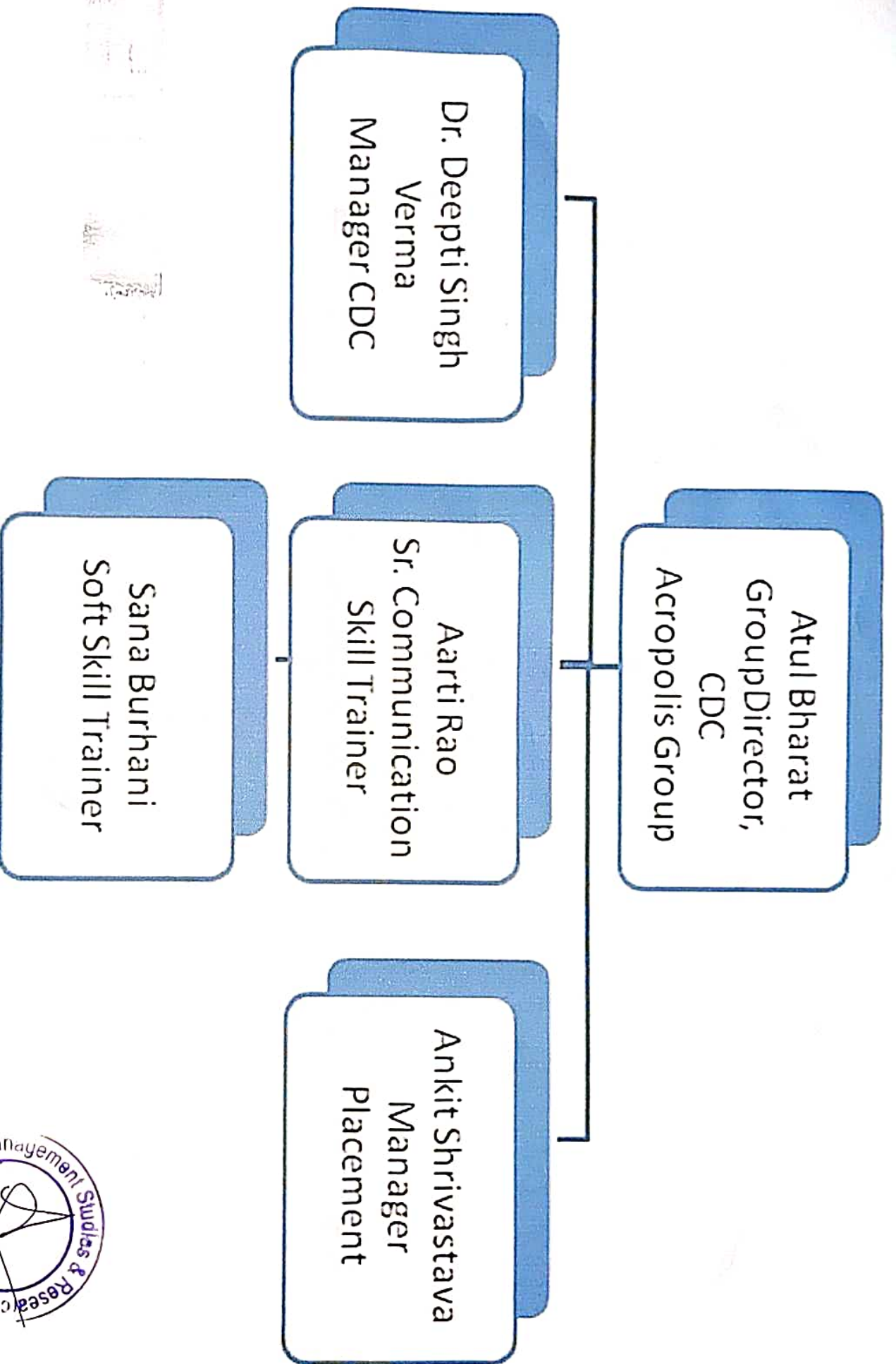
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Tel: 0731-4730093, 01Email:aimsr@acropolis.in, Website : www.aimsr.ac.in

students are culturally aware and ethically grounded. AIMS R highlights the recent scientific interest in Yoga, promoting these practices as part of a healthy lifestyle.

By combining academic rigor with cultural education, AIMS R ensures that its students are not only well-prepared for their careers but also responsible, ethical individuals who contribute positively to society. The institute's holistic approach to education helps students become well-rounded individuals capable of making meaningful contributions in both their personal and professional lives.





Career Development Cell - Organogram

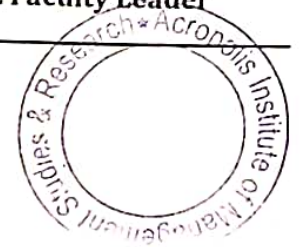
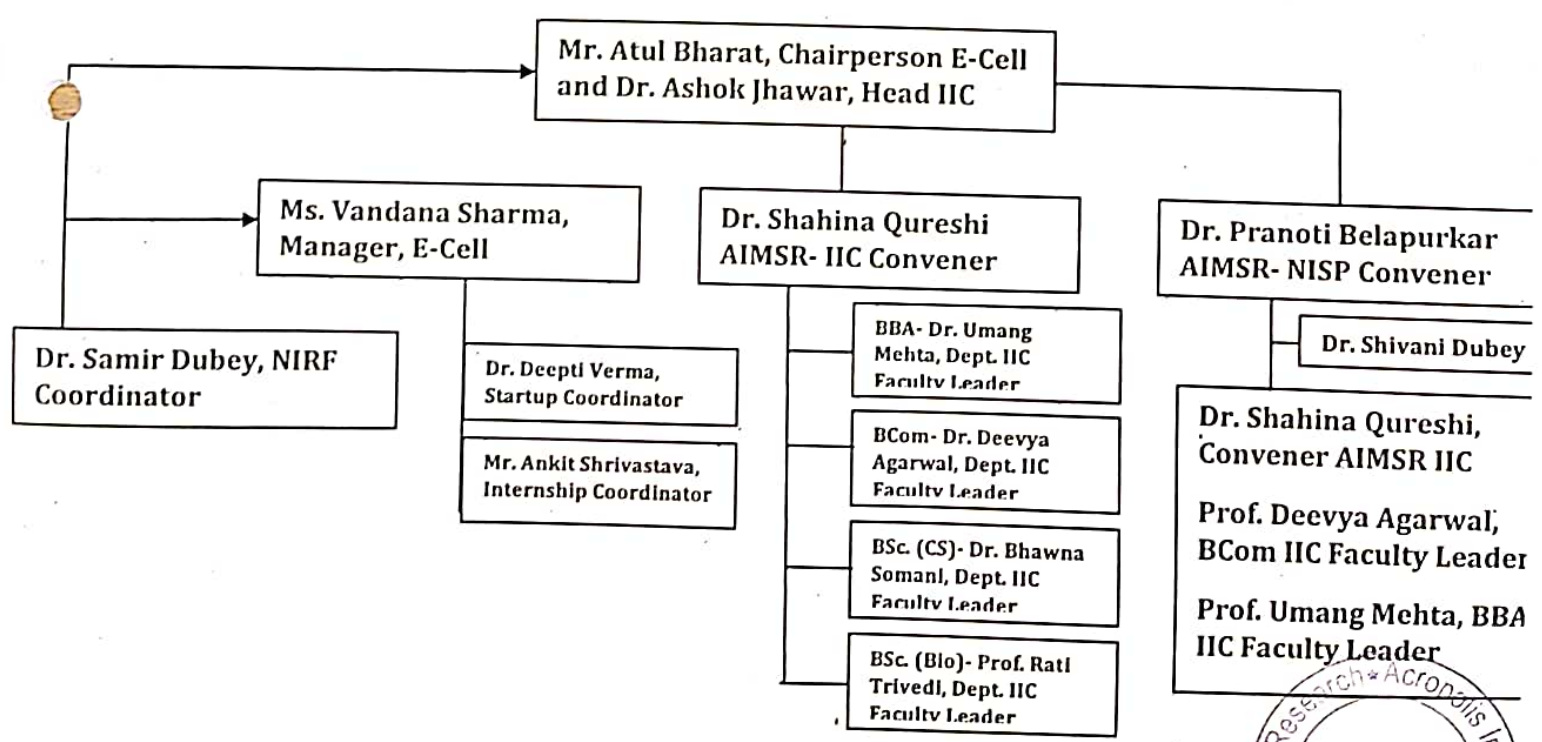


Acropolis Institute of Management Studies and Research

EDC & IIC 5.0 Committee Structure (Year 2022-23)

S. No.	Name of Person	Member Type (Teaching/Non-Teaching/External Experts)	Key Role/Position assigned in IIC
✓ 1	Dr. Ashok Jhawar	Principal	President & Head IIC
2	Mr. Atul Bharat	Chairperson E-Cell	----
3	Ms. Vandana Sharma	Manager E-Cell	ARIIA Coordinator
✓ 4	Dr. Pranoti Belapurkar	HOD	IIC Vice President and NISP Convener
✓ 5	Dr. Shahina Qureshi	Faculty	Convener
✓ 6	Prof. Umang Mehta	Faculty	Innovation Activity coordinator
7	Dr. Deepti Verma	Faculty	Start-up activity coordinator
✓ 8	Mr. Ankit Srivastava	Faculty	Internship coordinator
✓ 9	Prof. Rati Trivedi	Faculty	IPR activity coordinator
✓ 10	Dr. Bhawana Somani	Faculty	Social Media Coordinator
✓ 11	Dr. Samir Dubey	Faculty	NIRF coordinator
✓ 12	Dr. Deevya Agarwal	Faculty	Member
✓ 13	Prof. Shivani Dubey	Faculty	Member

AIMSR IIC 5.0 Committee Structure

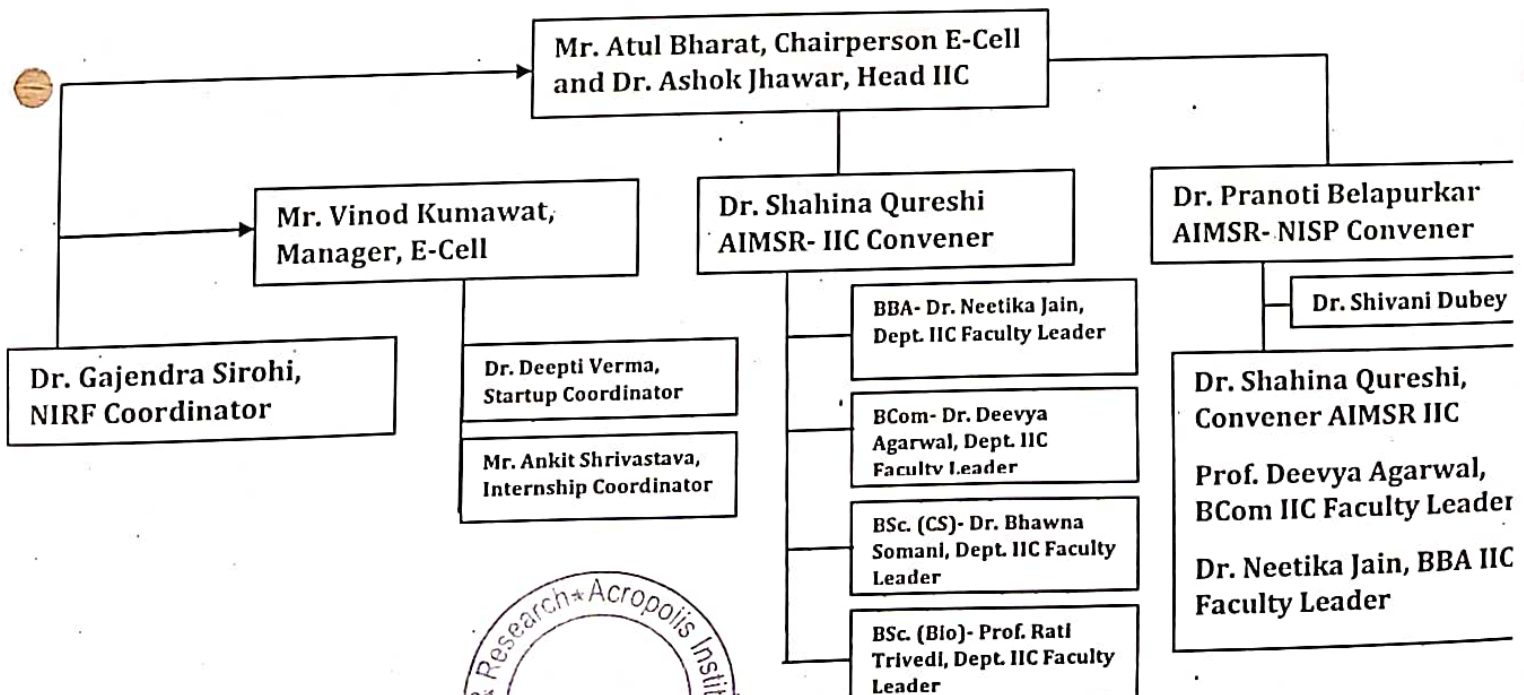


Acropolis Institute of Management Studies and Research

EDC & IIC 6.0 Committee Structure (Year 2023-24)

S. No.	Name of Person	Member Type (Teaching/Non-Teaching/External Experts)	Key Role/Position assigned in IIC
✓ 1	Dr. Ashok Jhawar	Principal	President & Head IIC
2	Mr. Atul Bharat	Chairperson E-Cell	----
3	Mr. Vinod Kumawat	Manager E-Cell	ARIIA Coordinator
✓ 4	Dr. Pranoti Belapurkar	HOD	IIC Vice President and NISP Convener
✓ 5	Dr. Shahina Qureshi	Faculty	Convener
✓ 6	Dr. Neetika Jain	Faculty	Innovation Activity coordinator
✓ 7	Dr. Deepti Verma	Faculty	Start-up activity coordinator
✓ 8	Mr. Ankit Srivastava	Faculty	Internship coordinator
✓ 9	Prof. Rati Trivedi	Faculty	IPR activity coordinator
✓ 10	Dr. Bhawana Somani	Faculty	Social Media Coordinator
✓ 11	Dr. Gajendra Sirohi	Faculty	NIRF coordinator
✓ 12	Dr. Deevya Agarwal	Faculty	Member
✓ 13	Prof. Shivani Dubey	Faculty	Member

AIMSR IIC 6.0 Committee Structure

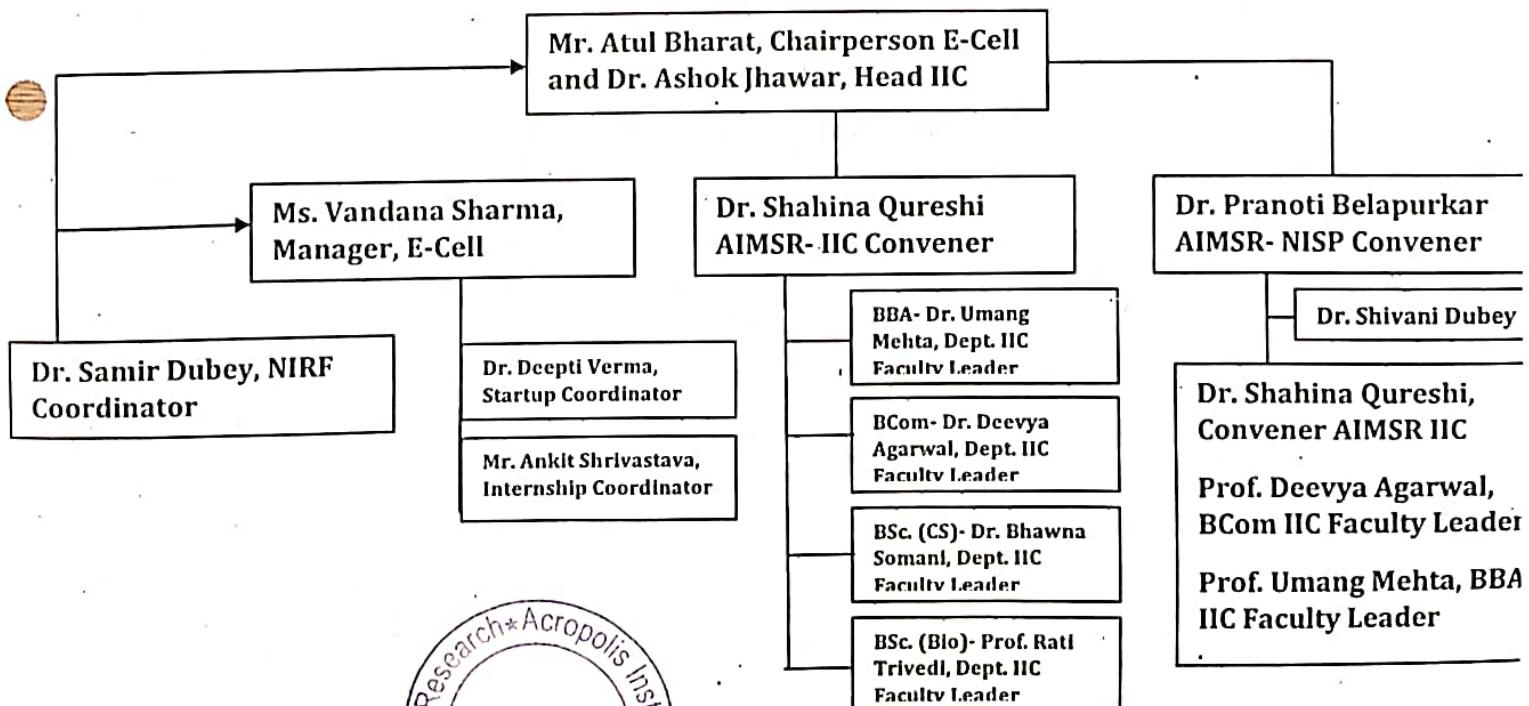


Acropolis Institute of Management Studies and Research

EDC & IIC 4.0 Committee Structure (Year 2021-22)

S. No.	Name of Person	Member Type (Teaching/Non-Teaching/External Experts)	Key Role/Position assigned in IIC
✓ 1	Dr. Ashok Jhawar	Principal	President & Head IIC
2	Mr. Atul Bharat	Chairperson E-Cell	----
3	Ms. Vandana Sharma	Manager E-Cell	ARIIA Coordinator
✓ 4	Dr. Pranoti Belapurkar	HOD	IIC Vice President and NISP Convener
✓ 5	Dr. Shahina Qureshi	Faculty	Convener
✓ 6	Prof. Umang Mehta	Faculty	Innovation Activity coordinator
✓ 7	Dr. Deepti Verma	Faculty	Start-up activity coordinator
✓ 8	Mr. Ankit Srivastava	Faculty	Internship coordinator
✓ 9	Prof. Rati Trivedi	Faculty	IPR activity coordinator
✓ 10	Dr. Bhawana Somani	Faculty	Social Media Coordinator
✓ 11	Dr. Samir Dubey	Faculty	NIRF coordinator
✓ 12	Dr. Deevya Agarwal	Faculty	Member
✓ 13	Prof. Shivani Dubey	Faculty	Member

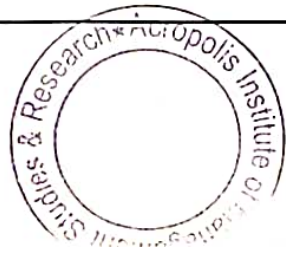
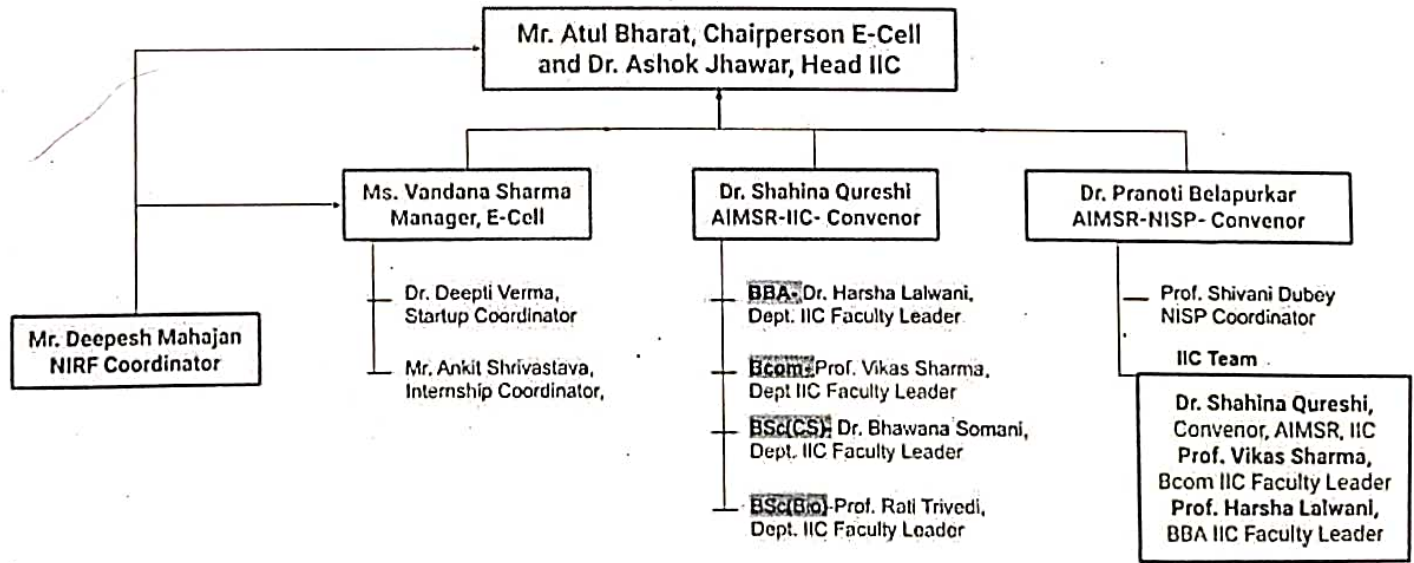
AIMSR IIC 4.0 Committee Structure



Acropolis Institute of Management Studies and Research EDC & IIC 3.0 Committee Structure (Year 2020-21)

S. No.	Name of Person	Member Type (Teaching/Non-Teaching/External Experts)	Key Role/Position assigned in IIC
✓ 1	Dr. Ashok Jhawar	Principal	President & Head IIC
2	Mr. Atul Bharat	Chairperson E-Cell	---
3	Ms. Vandana Sharma	Manager E-Cell	ARIIA Coordinator
✓ 4	Dr. Pranoti Belapurkar	HOD	IIC Vice President and NISP Convenor
✓ 5	Dr. Shahina Qureshi	Faculty	Convener
6	Prof. Vikas Sharma	Faculty	Innovation Activity coordinator
7	Dr. Deepti Verma	Faculty	Start-up activity coordinator
✓ 8	Mr. Ankit Srivastava	Faculty	Internship coordinator
✓ 9	Prof. Rati Trivedi	Faculty	IPR activity coordinator
✓ 10	Dr. Bhawana Somani	Faculty	Social Media Coordinator
✓ 11	Dr. Deepesh Mahajan	Faculty	NIRF coordinator
✓ 12	Dr. Harsha Lalwani	Faculty	Member
✓ 13	Prof. Shivani Dubey	Faculty	Member

AIMSR IIC 3.0 Committee Structure





Ref. No.: AIMS/VC/Estt./2018
Date: 18th July, 2018

Campus : Indore Bypass Road,
Mangla Square, INDORE - 453771
Ph. : 4730000-4730093
Fax : 0731-4730011
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Y.N. Road, INDORE Ph. : 4215338
Fax : 0731-2533338

To,
Dr. Ashok Jhawar
203, Tirumala Classic Appt.,
AX 14 Scheme No. 71, Sec - C
Indore

With reference to your application and personal interview, I have pleasure to inform you that as per approval accorded by the Management you are appointed as Principal, Acropolis Institute of Management Studies & Research, Indore w.e.f. 18th July 2018 in the pay scale of Rs.37400 – 67000 on Basic pay Rs.60000/- + AGP Rs.10000/- and Other Allowances Rs.10000/- totaling to Rs. 80000/- per month.

This appointment shall involve following responsibilities:-

1. Academic and Administrative Management of the Institute.
2. Admission and enrollment of students.
3. Ensuring quality of teaching and learning process and standard of education provided by the Institute.
4. To take necessary steps for all round development of the Institute to become a Center of Excellence.
5. Initiation of NAAC process and preparation of SAR.
6. Permanent affiliation of DAVV.
7. Introduction of PG courses in Commerce and Bio Sciences.
8. Introduction of value added / skill development courses for all streams.
9. Supervising and guiding faculty members for development of learning resource materials, lesson plans, lecture notes, power point presentation etc.
10. Planning and implementation of staff development programmes.
11. Ensuring satisfactory attendance of the students in the classes and maintenance of discipline.
12. Students counseling, guidance and grievance handling.
13. Monitoring and evaluation of academic activities.
14. Smooth conduct of examination work of University.
15. To promote research activities.
16. Consultancy services.
17. Performance appraisal of faculty & other staff.
18. Publication of international peer reviewed journal.
19. To organize international conference.
20. Safe custody of office records and property of the college.
21. To prepare proposals for introduction of new courses & schemes.
22. All DAVV related work, affiliation and inspection.
23. Annual Report.
24. Budget estimates.
25. Governing body meetings.
26. Any other work assigned by the Chairman.



This appointment is subject to the following terms and conditions:-

1. That this is a full time appointment and does not permit you to work for any other organization, (including Coaching, Tuition etc.) paid or honorary.
2. That you will remain available in the Institute during the working hours of the Institute or as needed under special circumstances as directed by the Management.
3. That your appointment will be on probation for one year which may be extended further if necessary.
4. That this appointment can be terminated with one month's notice or payment of one month's salary lieu thereof by the management during or after the probation period.
5. That you will have to give one month notice or payment of one month's salary in lieu thereof during probation period & three months notice thereafter for quitting the job. Further, you will ordinarily not relieve during the semester.
6. That Management reserves the right to amend or alter these terms and conditions in the interest of the Institution.
7. That you will be granted Casual Leave on proportionate basis per month during the probation period.
8. You will maintain confidentiality of data and information of the institute.
9. You shall join on July 18th, 2018.



(Prof. M. K. Dube)
Vice Chairman

Copy to :

1. Chairman.
2. Director AIMSRS.
3. Group Director CDC.
4. Group Financial Controller.
5. A/c Section, City Office.



APPOINTMENT ORDER

To,
Dr. Pranoti Belapurkar
201, Regency Gurukripa
25, Kalpana Lok Colony, Indore.

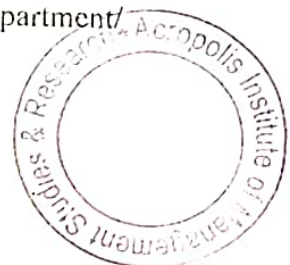
Madam,

With reference to your application & interview, I have pleasure to inform that you are appointed as Professor and Head Bioscience on basic salary of Rs. 47000/- with AGP of Rs 10000/- per month w.e.f. 23rd April 2018

You will be entitled to avail the transport facility by the buses for transportation of students. However, you can use your own mode of transport if you so desire.

This appointment shall involve following responsibilities:-

1. Classroom teaching, tutorials and exercises in your department or as instructed by the Principal / Director.
2. Carrying out industrial visits, industrial projects, consultancy services etc.
3. Career counseling to the students and personality development programs for the students.
4. Participation in appropriate responsibility of extracurricular activities of the Department/ Institute.
5. Developing of learning material.
6. Assessment of the students at Institute level and for university examination.
7. Participation in industry- institute- interface, community services.
8. Promotion of research activity in the institute in respective field/ discipline and also interdisciplinary fields & consultancy services.
9. Any other work assigned by the Principal / Director.



:: 02::

This appointment is subject to the following terms and conditions:-

1. That this is a full time appointment and does not permit you to work for any other organization, (including Coaching, Tuition etc.) paid or honorary.
2. That you will remain available in the Institute during the working hours of the Institute or as needed under special circumstances as directed by the Director/Vice Chairman.
3. That your appointment will be on probation for one year which may be extended further.
4. That this appointment can be terminated with one month's notice or payment of one month's salary lieu thereof by the management during or after the probation period.
5. That you will have to give one month notice or payment of one month's salary in lieu thereof during probation period & three months notice thereafter for quitting the job. Further, you will ordinarily be not relieved during the semester.
6. That in case if you are found to be violating the terms and conditions of appointment and code of conduct or committing any act of insubordination/indiscipline or in case of unsatisfactory performance your services will be terminated without notice.
7. That Management reserves the right to amend or alter these terms and conditions in the interest of the Institution.
8. That you will be granted Casual Leave on proportionate basis per month during the probation period.
9. You will maintain confidentially of data and information of the Institute.
10. That your working hours shall be from 08.30 A.M. to 3.00 P.M. or 10.30 A.M. to 5.00 P.M. as per time table.
11. An amount of Rs.14250/- of first two month's salary will be kept as a deposit & shall be payable at the time of leaving the service.

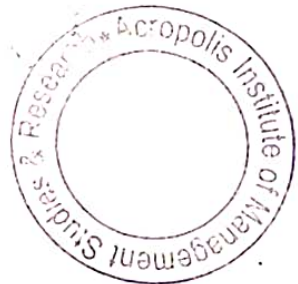
With best wishes,

M. K. Dube

Prof. M. K. Dube

Vice Chairman

Pranab
29/5/18



- CC: 1. Chairman.
2. Director- AIMSR.
3. Establishment Section.
4. Group Financial Controller / Account section City Office.



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AIMS/N.App./19/317
Date: 30/09/2019

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Fax : 0731-4730011
City Office : 301, Starlit Tower,
Y. N. Road, INDORE
Ph. : 4215338, 4060999

APPOINTMENT ORDER

To,
Dr. Shahina Qureshi,
H.No.1823-24,
Tall Mohalla,
Mhow, M.P.-453441

Madam,

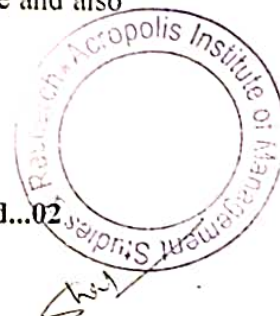
With reference to your application & interview, I have pleasure to inform you that you are appointed as Assistant Professor of Management in the Pay Band of Rs 15600-39100 on basic salary of Rs 24000/- with AGP of Rs 6000/- per month with effect from date of your joining i.e. 16th September 2019.

You will be entitled to avail the transport facility by the buses which are being used for transportation of students. However, you can use your own mode of transport if you so desire.

This appointment shall involve following responsibilities:-

1. Classroom teaching, tutorials and exercises in your department or as instructed by the head of the Department/ Principal.
2. Carrying out industrial visits, industrial projects, consultancy services etc.
3. Career counseling to the students and personality development programs for the students.
4. Participation in appropriate responsibility of extracurricular activities of the Department/ Institute.
5. Developing of learning material.
6. Assessment of the students at Institute level and for university examination.
7. Participation in industry- institute - interface, community services.
8. Promotion of research activity in the institute in respective field/ discipline and also interdisciplinary fields & consultancy services.
9. Any other work assigned by the Head of the department/ Principal.

Contd...02



:: 03 ::

This appointment is subject to the following terms & conditions:-

1. That this is a full time appointment and does not permit you to work for any other organization, (including Coaching, Tuition etc.) paid or honorary.
2. That you will remain available in the Institute during the working hours of the Institute or as needed under special circumstances as directed by the Principal/Vice Chairman.
3. That your appointment will be on probation for one year which may be extended further.
4. That this appointment can be terminated with one month's notice or payment of one month's salary ⁱⁿ lieu thereof by the management during or after the probation period.
5. That you will have to give one month's notice or payment of one month's salary in lieu thereof during probation period & three months notice thereafter for quitting the job. Further, you will ordinarily be not relieved during the semester.
6. That in case if you are found to be violating the terms and conditions of appointment and code of conduct or committing any act of insubordination/indiscipline or in case of unsatisfactory performance your services will be terminated without notice.
7. That Management reserves the right to amend or alter these terms and conditions in the interest of the Institution.
8. That you will be granted Casual Leave on proportionate basis per month during the probation period.
9. You will maintain confidentiality of data and information of the Institute.
10. One month salary in four installments will be kept as a deposit & shall be payable at the time of leaving the service.

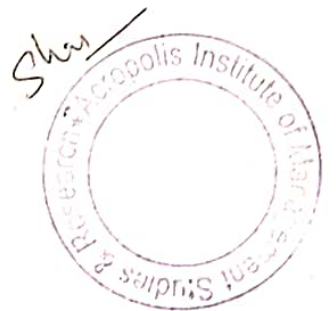
With best wishes,

M. K. Dube

Prof. M. K. Dube
Vice Chairman

- CC:
1. Chairman.
 2. Principal - AIMSR.
 3. Establishment Section.
 4. Group Financial Controller / Account section City Office.

A





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AIMSR/N.App./21/05
Date: 01/02/2021

APPOINTMENT ORDER

To,
Mr. Umang Mehta,
30, Pipliyarao, Jagannathpuri,
Ring Road, Opposite: - Gurudwara,
Indore

Sir,

With reference to your application & interview, I have pleasure to inform you that you are appointed as Assistant Professor of Management in the Pay Band of Rs 15600-39100 with effect from the date of your joining.

You will be entitled to avail the transport facility by the buses which are being used for transportation of students. However, you can use your own mode of transport if you so desire.

This appointment shall involve following responsibilities:-

1. Classroom teaching, tutorials and exercises in your department or as instructed by the Dean- Skill Development/ Principal.
2. Carrying out industrial visits, industrial projects, consultancy services etc.
3. Career counseling to the students and personality development programs for the students.
4. Participation in appropriate responsibility of extracurricular activities of the Department/ Institute.
5. Developing of learning material.
6. Assessment of the students at Institute level and for university examination.
7. Participation in industry- institute- interface, community services.
8. Promotion of research activity in the institute in respective field/ discipline and also interdisciplinary fields & consultancy services.
9. Any other work assigned by the Dean- Skill Development/ Principal.

Contd...02



U. Mehta,
22/03/21
Reviewed



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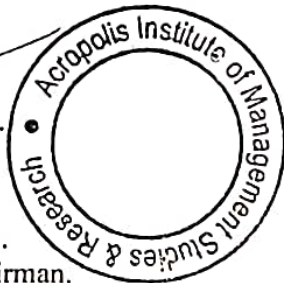
:: 02::

This appointment is subject to the following terms & conditions:-

1. That this is a full time appointment and does not permit you to work for any other organization, (including Coaching, Tuition etc.) paid or honorary.
2. That you will remain available in the Institute during the working hours of the Institute or as needed under special circumstances as directed by the Dean- Skill Development/ Principal/Vice Chairman.
3. That your appointment will be on probation for one year which may be extended further.
4. That this appointment can be terminated with one month's notice or payment of one month's salary in lieu thereof by the management during or after the probation period.
5. That you will have to give one month notice or payment of one month's salary in lieu thereof during or after the probation period for quitting the job. Further, you will ordinarily not be relieved during the concurrency of teaching session.
6. That in case if you are found to be violating the terms and conditions of appointment and code of conduct or committing any act of insubordination/indiscipline or in case of ~~unsatisfactory performance your services will be terminated without notice.~~
7. That Management reserves the right to amend or alter these terms and conditions in the interest of the Institution.
8. That you will be granted Casual Leave on proportionate basis per month during the probation period.
9. You will maintain confidentiality of data and information of the Institute.
10. One month salary in four installment's will be kept as a deposit & shall be payable at the time of leaving the service.

With best wishes,


Dr. Ashok Jhawar
Principal



- CC: 1. Chairman.
2. Vice Chairman.
3. Establishment Section.
4. Group Financial Controller / Account section City Office.

22/03/21
Received.

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AIMSR/N.App./19/

Date: 21/11/2019

APPOINTMENT ORDER

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INDORE-453771
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Fax: 0731-4730011
City Office : 301, Starlit Tower,
Y. H. Road, INDORE
Ph. : 4215333, 4060999

To,
Dr. Deepti Singh Verma,
Flat No:102, Shantivan Apartments,
399, Indrapuri Colony, Indore

I have pleasure to inform you that you are appointed as Manager Career Development Cell in the Pay Band of Rs 15600-39100 on basic salary of Rs 30909/- with AGP of Rs 6000/- per month with effect from 21st November 2019.

You will be entitled to avail the transport facility by the buses which are being used for transportation of students. However, you can use your own mode of transport if you so desire.

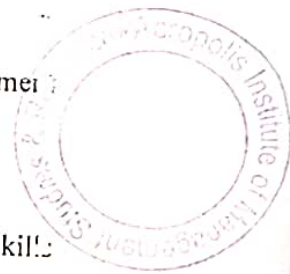
Key Responsibility Areas (KRA's):-

Career Development Cell

1. To arrange Guest Lectures for the students (In coordination with the CDC IIPC and Group Director CDC)
2. To ensure proper monitoring of the Delivery, Course Coverage and Pedagogy of the Course content
3. To co-ordinate with CDC for the soft skill and additional inputs to be given for better placement of the students.
4. To monitor the attendance of students and recommending necessary corrective steps under the approval of the Principal in CDC Sessions.
5. To ensure proper conduct and decorum in the classes and other activities.
6. Summer Internships-Monitoring the no. of SIP Proposal sent or received and students Selected.
7. Guest Lectures-Attendance+ Summary or Feedback.
8. Industry Visits-Attendance+ Summary or Feedback.
9. Live Projects -Project Report Submission.
10. Online and offline data recording of all industry interfacing events like Guest Lecture, Industry Visit, Live Project Talk Series.
11. Accumulation and Preparation of all SIP details of each student.
12. Online assortment and registration of all assessment and evaluation done by CDC
13. Coordination during Campus Placement drives and assisting in the student-placement activities.
14. CDC Evaluation & Assessments

Communication & Soft Skills Development Program

1. Responsible for designing the exclusive module for Communication & Soft Skills for the students.
2. To monitor the smooth conduct of CSDP Module (Communication & Soft Skills Development Program).



:: 02::

3. To prepare the schedule of the training sessions, in consultation with Principal & Time-table coordinator.
4. To conduct, arrange and execute various Soft Skills Sessions for the students in order to prepare them for on-campus and off-campus interviews.
5. To arrange special sessions (especially for the weaker students) for improvement.
6. To arrange and execute various aptitude and analytical skills development Sessions for the students in order to prepare them for on-campus and off-campus interviews
7. To monitor the training sessions by taking regular feedback of the training and trainers in order to provide customized industry-oriented training to students.
8. To prepare performance reports of the trainers and trainees.

Academic activities & Mentoring

1. Classroom teaching, tutorials and exercises in your department or as instructed by Group Director-CDC/ Principal.
2. Responsible for identification of students for their career mapping & categorization based on their performance, in order to monitor individual performances of every student.
3. To arrange special mentoring sessions for students in order to improve their performance
4. Other Areas of Responsibility as directed by group Director CDC

This appointment is subject to the following terms & conditions:-

1. That this is a full time appointment and does not permit you to work for any other organization, (including Coaching, Tuition etc.) paid or honorary.
2. That you will remain available in the Institute during the working hours of the Institute or as needed under special circumstances as directed by the Group Director-CDC/Principal - AIMSRS
3. That this appointment can be terminated with one month's notice or payment of one month's salary in lieu thereof by the management.
4. That you will have to give three months notice or payment of three month's salary in lieu thereof for quitting the job. Further, you will ordinarily be not relieved during the semester.
5. That in case if you are found to be violating the terms and conditions of appointment and code of conduct or committing any act of insubordination/indiscipline or in case of unsatisfactory performance your services will be terminated without notice.
6. That Management reserves the right to amend or alter these terms and conditions in the interest of the Institution.
7. That you will be granted Casual Leave on proportionate basis per month during the first year.
8. You will maintain confidentiality of data and information of the Institute.
9. That your working hours shall be from 10:30 AM to 05:00 PM. However, your working hours may be changed from 08:30 AM to 05:00 PM as and when required.

With best wishes,

M. K. Dubé

Prof. M. K. Dubé
Vice Chairman

- CC: 1. Chairman.
2. Group Director-CDC
3. Principal - AIMSRS.
4. Establishment Section

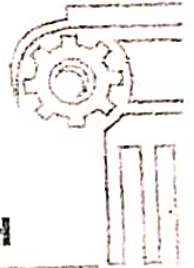
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[Signature]
06/Jan/2020





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**ACROPOLIS
INSTITUTE OF
MANAGEMENT
STUDIES & RESEARCH**



www.acropolis.edu.in

AIMSR/N.App./19/
Date: 1st March, 2019

APPOINTMENT ORDER

Campus : Indore Bypass Road,
Mangliya Square, Near Toll Plaza,
INDORE-453771
Ph. : 0731-4730000, 4730093
City Office : 301, Starlit Tower,
Y. N. Road, INDORE
Ph. : 4215338, 4060999

To,
Mr. Ankit Shrivastav

I have pleasure to inform you that you are appointed as Manager - Placement Career Development Cell on a Consolidated basic salary of Rs. 27000/-- per month with effect from your date of joining.

You will be entitled to avail the transport facility by the buses which are being used for transportation of students. However, you can use your own mode of transport if you so desire.

Key Responsibility Areas (KRA's):-

- Managing CDC Activities in respect to soft skill ,Industry Interface and Placements.
- Final Placements-Execution & Monitoring the no. of drives conducted with overall selection.
- Summer Internships-Monitoring the no. of SIP Proposal sent or received and student Selected.
- Guest Lectures-Attendance+ Summary & Feedback.
- Industry Visits-Attendance+ Summary & Feedback.
- Live Projects -Project Report Submission.
- Field Visits-Monitoring no of appointment taken and client visited.
- Single Point of Contact (SPOC) between student, academics and CDC.
- Maintenance of all records of CDC including Student Dossier, CDC Dossier, Departmental files and database.
- Developing and implementing policies regarding student's involvement in CDC, placement activities, whole year schedule of grooming student for final placements.
- Conceptualization and handling of placement committee which includes student coordination, faculty members and CDC members.
- Designing e placement brochures. ✓
- Representing Acropolis and Coordination of students during campus placement drives. ✓
- To coordinate with Deptt placement coordinator and Head Placements & Peer for conducting campus placement drives in the Institute. ✓
- Responsible for getting leads for enrichment of company database for placement opportunities in coordination with Head Placements. ✓

Received
Ankit
7/12/21



- Responsible for managing all arrangements along with other members of Placement Cell for all on-campus placements drives Travel Accommodation Logistics Food Labs Audi & Other relevant utilities required
- To coordinate with Deptt coordinator - placement cell for arrangement and execution of various special training sessions for students in order to prepare them for on-campus and off-campus interviews ✓
- Responsible for conducting of online mock tests for students on a regular basis for grooming of students and polishing their skills. ✓
- To coordinate with members of placement cell for conducting technical talks/guest lectures/seminars by industry professionals in campus for technical grooming of students.
- To coordinate with Alumni Committee for identifying prospective recruiters from the alumni database.
- To co-ordinate with Training Team CDC for the soft skill and additional inputs to be given for better placement of the students.
- To execute devise & monitor the attendance of students in campus process and recommending necessary corrective steps under the approval of the Group Director CDC
- To ensure students proper code of conduct and decorum in the placement process and other activities.
- To organize events, tours, excursions, and other activities of interest for the students with relevance to Placements & Skill development in co-ordination with Group Director
- To give leads to the CDC regarding the help of the alumni in training and placement of the students.
- To establish stronger interface with CII/PHD/ASSOCHAM/FICCI /Others Similar organization for which Acropolis has membership.
- To Participate in all the invitations regarding conferences/seminars/workshops/training programs conducted by CII/ PHD/ASSOCHAM/FICCI /Others Similar organization for which Acropolis has membership.
- To maintain the records of students participation for all terms.
- To maintain database of Industry / Corporate experts, which can be utilized by the Institute for various value- added activities like guest lectures, panel discussions, syndicate discussion etc
- Any Institutional and Departmental duty to be given or as per occurrence.
- Any other assignment as per requirement of the Institute and instructions of the Group Director.

This appointment is subject to the following terms & conditions:-


1. That this is a full time appointment and does not permit you to work for any other organization, (including Coaching, Tuition etc.) paid or honorary.
2. That you will remain available in the Institute during the working hours of the Institute or as needed under special circumstances as directed by the Group Director-CDC.
3. That this appointment can be terminated with one month's notice or payment of one month's salary in lieu thereof by the management.
4. That you will have to give three months notice or payment of three month's salary in lieu thereof for quitting the job. Further, you will ordinarily be not relieved during the semester.

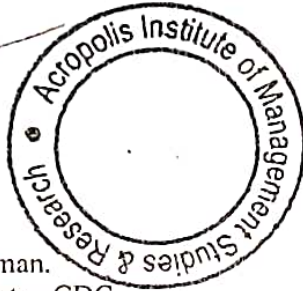
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5. That in case if you are found to be violating the terms and conditions of appointment and code of conduct or committing any act of insubordination/indiscipline or in case of unsatisfactory performance your services will be terminated without notice.
6. That Management reserves the right to amend or alter these terms and conditions in the interest of the Institution.
7. That you will be granted Casual Leave on proportionate basis per month during the first year.
8. You will maintain confidentially of data and information of the Institute.
9. That your working hours shall be from 10:30 AM to 05:00 PM. However, your working hours may be changed to 08:30 AM to 03:00 PM as and when required.

With best wishes,


Dr. Ashok Jhawar
Principal



- CC:
1. Chairman.
 2. Vice-Chairman.
 3. Group Director-CDC
 4. Establishment Section.
 5. Group Financial Controller / Account section City Office.

To
Mr. Ankit Shrivastava
136, Shrinagar Ext. G-2 Gulshan Apartment,
Indore (M.P.) 452001

Received
@Ankit
7/12/21





Date: 18/07/2017

APPOINTMENT ORDER

To,
Ms. Rati Trivedi Nair
6/3 LIG Colony, A B Road,
Indore. (M.P.)

Madam,

With reference to your application & interview, I have pleasure to inform you that you are appointed as Assistant Professor in Management in the Pay Band of Rs 15600-39100 on basic salary of Rs. 17000/- with AGP of Rs 6000/- per month.

You will be entitled to avail the transport facility by the buses for transportation of students. However, you can use your own mode of transport if you so desire.

This appointment shall involve following responsibilities:-

1. Classroom teaching, tutorials and exercises in your department or as instructed by the head of the Department/ Director.
2. Carrying out industrial visits, industrial projects, consultancy services etc.
3. Career counseling to the students and personality development programs for the students.
4. Participation in appropriate responsibility of extracurricular activities of the Department/ Institute.
5. Developing of learning material.
6. Assessment of the students at Institute level and for university examination.
7. Participation in industry- institute- interface, community services.
8. Promotion of research activity in the institute in respective field/ discipline and also interdisciplinary fields & consultancy services.
9. Any other work assigned by the Head of the department/ Director.



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This appointment is subject to the following terms & conditions:-

1. This is a full time appointment and does not permit to work for any other organization, (including Coaching, Tuition etc.) paid or honorary.
2. You will remain available in the Institute during the working hours of the Institute or as needed under special circumstances as directed by the Principal.
3. You will be on probation for one year which may be extended further.
4. This appointment can be terminated with one month's notice or payment of one month salary in lieu thereof by the management during or after the probation period.
5. You will have to give one month notice or payment of one month salary in lieu thereof during probation period & three months notice thereafter for termination of the appointment. Further, you will ordinarily not be relieved during the semester.
6. In case if you are found to be violating the terms and conditions of appointment and code of conduct or committing any act of insubordination/indiscipline or in case of unsatisfactory performance your services will be terminated without notice.
7. Management reserves the right to amend or alter these terms and conditions in the interest of the Institution.
8. During probation period you will be granted casual leave on proportionate basis i.e. one per month.
9. You will improve your qualifications in the joint interest of the institution and yourself. For this, legitimate and affordable facilities will be provided but it will not be your right.
10. An amount equal to 50% of one month's salary will be kept as a deposit deducted in three equal monthly installments & shall be payable at the time of leaving the service.
11. You shall join on July 18, 2017.

With best wishes,

M. K. Dube

Prof. M. K. Dube
Vice Chairman

- CC:
1. Chairman.
 2. Director- AIMSR.
 3. Establishment Section.
 4. Group Financial Controller / Account section City Office.



R. K. S.
15/07/17

APPOINTMENT LETTER

Ref: ATC/Estt/ENGG/2013/ 1352

December 06, 2013

Mrs. Bhawna Somani,
96, Gumasta Nagar,
Indore (MP)


Dear Madam,

With reference to your application and subsequent interview, we are pleased to inform that you are appointed on the post of Senior Asst. Prof. in Mathematics (Applied Sciences & Humanities Department) on a starting salary of Rs. 28,000/- per month in the scale of Rs. 15600/- and AGP of Rs. 7,000/-.

You are required to join the duties immediately. Please bring along photocopies of all relevant certificates, original for verification and four passport size photographs.

Terms & conditions would be as under:

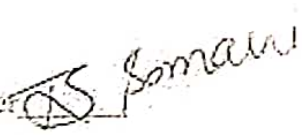
1. You will be initially on probation for a period of one year and may be regularized only after satisfactory performance during the period. During the period of probation your services may be terminated with one month of notice or giving one month salary on either side without giving any reason or justification. In case your performance during the probation period is unsatisfactory or irregular in discharging your duties, your services shall be terminated without giving any notice.
2. Your appointment is full time and you shall not undertake any other employment or not be engaged in outside consultancy / profession / tutorial / coaching or any such work with or without remuneration, without written permission of the competent Authority of the Institute.
3. You will maintain the confidentiality of information to which you may have access during your duties. You are expected to act in the best interest of the Institute and not divulge any confidential or any other information which may harm the image of the Institute or its employees or students.
4. Your appointment is subject to the General Terms & Conditions of Service, and Code of Conduct Rules in force and as amended from time to time by the Governing Body of the Institute.
5. While on duty you will be vigilant and report any case of ragging to the college authority and help in maintaining a ragging free environment for all. You may have to produce an affidavit to this effect.
6. You are not permitted to tender your resignation from the service in the middle of an academic session; and doing so by you will attract an additional one month's salary to the condition mentioned in Para 1 above.


Director

Copy to:
Establishment Section

Received: Copy of handout for faculty member







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Campus : Indore Bypass Road,
Manglia Square, INDORE - 453771
Ph. : 4730000-4730093
Fax: 0731-4730011

City Office : 301, Starlit Tower,
Y.N. Road, INDORE Ph. : 4215338
Fax: 0731-2533338

Date: 30/08/2016

APPOINTMENT ORDER

To,
Mr Samir Dubey,
852, Dwarkapuri,
Indore

With reference to your application & interview, I have pleasure to inform you that you are appointed as Assistant Professor in Management on the Pay Band of Rs 15600-39100 on a basic salary of Rs. 24000/- and AGP of Rs 6000/- per month.

You will be entitled to avail the transport facility by the buses for transportation of students. However, you can use your own mode of transport if you so desire.

This appointment shall involve following responsibilities:-

1. Classroom teaching, tutorials and exercises in your department or as instructed by the head of the Department/ Director.
2. Carrying out industrial visits, industrial projects, consultancy services etc.
3. Career counseling to the students and personality development programs for the students.
4. Participation in appropriate responsibility of extracurricular activities of the Department/ Institute.
5. Developing of learning material.
6. Assessment of the students at Institute level and for university examination.
7. Participation in industry- institute- interface, community services.
8. Promotion of research activity in the institute in respective field/ discipline and also interdisciplinary fields & consultancy services.
9. Any other work assigned by the Head of the department/ Director.

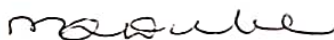
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This appointment is subject to the following terms & conditions:-

1. That this is a full time appointment and does not permit to work for any other organization, (including Coaching, Tuition etc.) paid or honorary.
2. That you will remain available in the Institute during the working hours of the Institute or as needed under special circumstances as directed by the Principal.
3. That you will be on probation for one year which may be extended further.
4. That this appointment can be terminated with one month's notice or payment of one month salary in lieu thereof by the management during or after the probation period.
5. That you will have to give one month notice or payment of one month salary in lieu thereof during probation period & three months notice thereafter for termination of the appointment. Further, you will ordinarily not be relieved during the semester.
6. That in case if you are found to be violating the terms and conditions of appointment and code of conduct or committing any act of insubordination/indiscipline or in case of unsatisfactory performance your services will be terminated without notice.
7. That Management reserves the right to amend or alter these terms and conditions in the interest of the Institution.
8. That during probation period you will be granted casual leave on proportionate basis i.e. one per month.
9. That you will improve your qualifications in the joint interest of the institution and yourself. For this, legitimate and affordable facilities will be provided but it will not be your right.
10. That Management reserves the right to amend or alter these terms and conditions in the interest of the Institution.
11. That an amount equal to 50% of one month's salary will be kept as a deposit deducted in three equal monthly installments & shall be payable at the time of leaving the service.
12. You shall join on September 1st, 2016.

With best wishes,



Prof. M. K. Dubey
Vice-Chairman



AIMSR/N.App./21/04
Date: 01/02/2021

Campus : Indore Bypass Road,
Mangliya Square, Near Toll Plaza,
INDORE-453771
Ph. : 0731-4730000,4730093
City Office : 301,Starlit Tower,
Y. N. Road, INDORE
Ph. : 4215338, 4060999

APPOINTMENT ORDER

To,
Dr. Deevya Agrawal,
21, Agrasen Nagar, Airport Road,
Bisholi Hapsi, Indore

Madam,

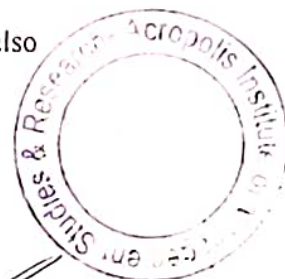
With reference to your application & interview, I have pleasure to inform you that you are appointed as Assistant Professor of Commerce in the Pay Band of Rs 15600-39100 with effect from the date of your joining.

You will be entitled to avail the transport facility by the buses which are being used for transportation of students. However, you can use your own mode of transport if you so desire.

This appointment shall involve following responsibilities:-

1. Classroom teaching, tutorials and exercises in your department or as instructed by the head of the Department/ Principal.
2. Carrying out industrial visits, industrial projects, consultancy services etc.
3. Career counseling to the students and personality development programs for the students.
4. Participation in appropriate responsibility of extracurricular activities of the Department/ Institute.
5. Developing of learning material.
6. Assessment of the students at Institute level and for university examination.
7. Participation in industry- institute- interface, community services.
8. Promotion of research activity in the institute in respective field/ discipline and also interdisciplinary fields & consultancy services.
9. Any other work assigned by the Head of the department/ Principal.

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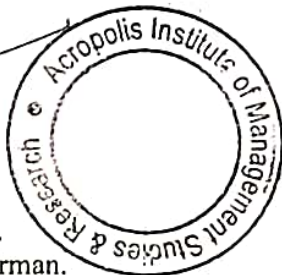
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This appointment is subject to the following terms & conditions:-

1. That this is a full time appointment and does not permit you to work for any other organization, (including Coaching, Tuition etc.) paid or honorary.
2. That you will remain available in the Institute during the working hours of the Institute or as needed under special circumstances as directed by the Principal/Vice Chairman.
3. That your appointment will be on probation for one year which may be extended further.
4. That this appointment can be terminated with one month's notice or payment of one month's salary in lieu thereof by the management during or after the probation period.
5. That you will have to give one month notice or payment of one month's salary in lieu thereof during or after the probation period for quitting the job. Further, you will ordinarily not be relieved during the concurrency of teaching session.
6. That in case if you are found to be violating the terms and conditions of appointment and code of conduct or committing any act of insubordination/indiscipline or in case of unsatisfactory performance your services will be terminated without notice.
7. That Management reserves the right to amend or alter these terms and conditions in the interest of the Institution.
8. That you will be granted Casual Leave on proportionate basis per month during the probation period.
9. You will maintain confidentiality of data and information of the Institute.
10. One month salary in four installment's will be kept as a deposit & shall be payable at the time of leaving the service.

With best wishes,


Dr. Ashok Jhawar
Principal



- CC:
1. Chairman.
 2. Vice Chairman.
 3. Establishment Section.
 4. Group Financial Controller / Account section City Office.





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Ph. : 4730000-4730093
Fax : 0731-4730011

City Office : 301, Starlit Tower,
Y.N. Road, INDORE Ph. : 4215338
Fax : 0731-2533338

Date: 01/08/2017

APPOINTMENT ORDER

To,
Dr Shivani Dubey
Flat no.101, Plot 5,
Shri Krishna Avenue, Khandwa Road,
Indore. (M.P.)

Madam,

With reference to your application & interview, I have pleasure to inform that you are appointed as Assistant Professor in Biotechnology on the consolidated salary of Rs. 20000/- per month.

You will be entitled to avail the transport facility by the buses for transportation of students. However, you can use your own mode of transport if you so desire.

This appointment shall involve following responsibilities:-

1. Classroom teaching, tutorials and exercises in your department or as instructed by the head of the Department/ Director.
2. Carrying out industrial visits, industrial projects, consultancy services etc.
3. Career counseling to the students and personality development programs for the students.
4. Participation in appropriate responsibility of extracurricular activities of the Department/ Institute.
5. Developing of learning material.
6. Assessment of the students at Institute level and for university examination.
7. Participation in industry- institute- interface, community services.
8. Promotion of research activity in the institute in respective field/ discipline and also interdisciplinary fields & consultancy services.
9. Any other work assigned by the Head of the department/ Director.



Principal
Acropolis Institute of Management
Studies & Research, Indore (M. P.)

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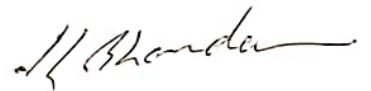
This appointment is subject to the following terms & conditions:-

1. This is a full time appointment and does not permit to work for any other organization, (including Coaching, Tuition etc.) paid or honorary.
2. You will remain available in the Institute during the working hours of the Institute or as needed under special circumstances as directed by the Principal.
3. You will be on probation for one year which may be extended further.
4. This appointment can be terminated with one month's notice or payment of one month salary in lieu thereof by the management during or after the probation period.
5. You will have to give one month notice or payment of one month salary in lieu thereof during probation period & three months notice thereafter for termination of the appointment. Further, you will ordinarily not be relieved during the semester.
6. In case if you are found to be violating the terms and conditions of appointment and code of conduct or committing any act of insubordination/indiscipline or in case of unsatisfactory performance your services will be terminated without notice.
7. Management reserves the right to amend or alter these terms and conditions in the interest of the Institution.
8. During probation period you will be granted casual leave on proportionate basis i.e. one per month.
9. You will improve your qualifications in the joint interest of the institution and yourself. For this, legitimate and affordable facilities will be provided but it will not be your right.
10. An amount equal to 50% of one month's salary will be kept as a deposit deducted in three equal monthly installments & shall be payable at the time of leaving the service.
11. You shall join on August 01, 2017.

With best wishes,



Prof. M. K. Dube
Vice Chairman



- CC:
1. Chairman.
 2. Director- AIMSRS.
 3. Establishment Section.
 4. Group Financial Controller / Account section City

Principal
Acropolis Institute of Management
Studies & Research, City





Date: 18/07/2017

APPOINTMENT ORDER

To,
Dr Gajendra Sirohi
1374/5, Nanda Nagar,
Indore. (M.P.)

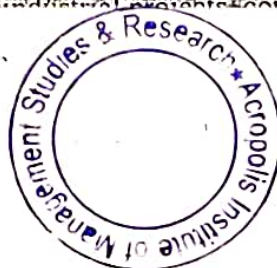
Sir,

With reference to your application & interview, I have pleasure to inform you that you are appointed as Assistant Professor in Commerce in the Pay Band of Rs 15600-39100 on basic salary of Rs 25000/- with AGP of Rs 6000/ per month.

You will be entitled to avail the transport facility by the buses for transportation of students. However, you can use your own mode of transport if you so desire.

This appointment shall involve following responsibilities:-

1. Classroom teaching, tutorials and exercises in your department or as instructed by the head of the Department/ Director.
2. Carrying out industrial visits, industrial projects, consultancy services etc.
3. Career counseling to the students and personality development programs for the students.
4. Participation in appropriate responsibility of extracurricular activities of the Department/ Institute.
5. Developing of learning material.
6. Assessment of the students at Institute level and for university examination.
7. Participation in industry- institute- interface, community services.
8. Promotion of research activity in the institute in respective field/ discipline and also interdisciplinary fields & consultancy services.
9. Any other work assigned by the Head of the department/ Director.



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This appointment is subject to the following terms & conditions:-

1. This is a full time appointment and does not permit to work for any other organization, (including Coaching, Tuition etc.) paid or honorary.
2. You will remain available in the Institute during the working hours of the Institute or as needed under special circumstances as directed by the Principal.
3. You will be on probation for one year which may be extended further.
4. This appointment can be terminated with one month's notice or payment of one month salary in lieu thereof by the management during or after the probation period.
5. You will have to give one month notice or payment of one month salary in lieu thereof during probation period & three months notice thereafter for termination of the appointment. Further, you will ordinarily not be relieved during the semester.
6. In case if you are found to be violating the terms and conditions of appointment and code of conduct or committing any act of insubordination/indiscipline or in case of unsatisfactory performance your services will be terminated without notice.
7. Management reserves the right to amend or alter these terms and conditions in the interest of the Institution.
8. During probation period you will be granted casual leave on proportionate basis i.e. one per month.
9. You will improve your qualifications in the joint interest of the institution and yourself. For this, legitimate and affordable facilities will be provided but it will not be your right.
10. An amount equal to 50% of one month's salary will be kept as a deposit deducted in three equal monthly installments & shall be payable at the time of leaving the service.
11. You shall join on July 18, 2017.

With best wishes,

M. K. Dube

Prof. M. K. Dube
Vice Chairman



- CC: 1. Chairman.
2. Director- AIMSRS.
3. Establishment Section.
4. Group Financial Controller / Account section City Office.

6
15.11.17



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INSTITUTE OF
MANAGEMENT
STUDIES & RESEARCH**



Campus : Indore Bypass Road,
Manglia Square, INDORE - 453771
Ph. : 4730000-4730093
Fax : 0731-4730011

City Office : 301, Starlit Tower,
Y.N. Road, INDORE Ph. : 4215338
Fax : 0731-2533338

Date: 05/08/2016

APPOINTMENT ORDER

To,
Dr Deepesh Mahajan
267-B Pragati Nagar
Near Sai Baba Temple, Rajendra Nagar,
Indore

With reference to your application & interview, I have pleasure to inform you that you are appointed as Assistant Professor in Commerce on the Pay Band of Rs 15600-39100 on a basic salary of Rs. 24000/- and AGP of Rs 6000/- per month.

You will be entitled to avail the transport facility by the buses for transportation of students. However, you can use your own mode of transport if you so desire.

This appointment shall involve following responsibilities:-

1. Classroom teaching, tutorials and exercises in your department or as instructed by the head of the Department/ Director.
2. Carrying out industrial visits, industrial projects, consultancy services etc.
3. Career counseling to the students and personality development programs for the students.
4. Participation in appropriate responsibility of extracurricular activities of the Department/ Institute.
5. Developing of learning material.
6. Assessment of the students at Institute level and for university examination.
7. Participation in industry- institute- interface, community services.
8. Promotion of research activity in the institute in respective field/ discipline and also interdisciplinary fields & consultancy services.
9. Any other work assigned by the Head of the department/ Director.


Contd...02



This appointment is subject to the following terms & conditions:-

1. That this is a full time appointment and does not permit to work for any other organization, (including Coaching, Tuition etc.) paid or honorary.
2. That you will remain available in the Institute during the working hours of the Institute or as needed under special circumstances as directed by the Principal.
3. That you will be on probation for one year which may be extended further.
4. That this appointment can be terminated with one month's notice or payment of one month salary in lieu thereof by the management during or after the probation period.
5. That you will have to give one month notice or payment of one month salary in lieu thereof during probation period & three months notice thereafter for termination of the appointment. Further, you will ordinarily not be relieved during the semester.
6. That in case if you are found to be violating the terms and conditions of appointment and code of conduct or committing any act of insubordination/indiscipline or in case of unsatisfactory performance your services will be terminated without notice.
7. That Management reserves the right to amend or alter these terms and conditions in the interest of the Institution.
8. That during probation period you will be granted casual leave on proportionate basis i.e. one per month.
9. That you will improve your qualifications in the joint interest of the institution and yourself. For this, legitimate and affordable facilities will be provided but it will not be your right.
10. That Management reserves the right to amend or alter these terms and conditions in the interest of the Institution.
11. That an amount equal to 50% of one month's salary will be kept as a deposit deducted in three equal monthly installments & shall be payable at the time of leaving the service.
12. You shall join on August 8th, 2016.

With best wishes,



Prof. M. K. Dubey
Vice-Chairman



AIMSR/N.App./19/342,
Date: 06/11/2019

APPOINTMENT ORDER

To,
Dr. Harsha Lalwani,
Shalimar Malwa Enclave Society,
Building No.-3, Flat 102,
MR-9, Vijay Nagar, Indore

Madam,

With reference to your application & interview, I have pleasure to inform you that you are appointed as Assistant Professor of Management in the Pay Band of Rs 15600-39100 on basic salary of Rs 22000/- with AGP of Rs 6000/- per month with effect from date of your joining i.e. 30th October 2019.

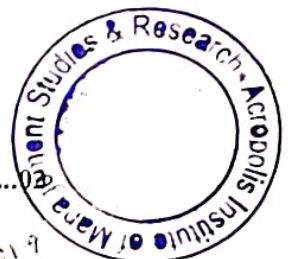
You will be entitled to avail the transport facility by the buses which are being used for transportation of students. However, you can use your own mode of transport if you so desire.

This appointment shall involve following responsibilities:-

1. Classroom teaching, tutorials and exercises in your department or as instructed by the head of the Department/ Principal.
2. Carrying out industrial visits, industrial projects, consultancy services etc.
3. Career counseling to the students and personality development programs for the students.
4. Participation in appropriate responsibility of extracurricular activities of the Department/ Institute.
5. Developing of learning material.
6. Assessment of the students at Institute level and for university examination.
7. Participation in industry- institute- interface, community services.
8. Promotion of research activity in the institute in respective field/ discipline and also interdisciplinary fields & consultancy services.
9. Any other work assigned by the Head of the department/ Principal.

Contd...02

Recd.
Harsha Lalwani
11/11/2019

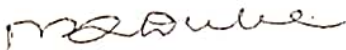


:: 02::

This appointment is subject to the following terms & conditions:-

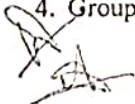
1. That this is a full time appointment and does not permit you to work for any other organization, (including Coaching, Tuition etc.) paid or honorary.
2. That you will remain available in the Institute during the working hours of the Institute or as needed under special circumstances as directed by the Principal/Vice Chairman.
3. That your appointment will be on probation for one year which may be extended further.
4. That this appointment can be terminated with one month's notice or payment of one month's salary in lieu thereof by the management during or after the probation period.
5. That you will have to give one month notice or payment of one month's salary in lieu thereof during probation period & three months notice thereafter for quitting the job. Further, you will ordinarily be not relieved during the semester.
6. That in case if you are found to be violating the terms and conditions of appointment and code of conduct or committing any act of insubordination/indiscipline or in case of unsatisfactory performance your services will be terminated without notice.
7. That Management reserves the right to amend or alter these terms and conditions in the interest of the Institution.
8. That you will be granted Casual Leave on proportionate basis per month during the probation period.
9. You will maintain confidentially of data and information of the Institute.
10. One month salary in four installment's will be kept as a deposit & shall be payable at the time of leaving the service.

With best wishes,



Prof. M. K. Dube
Vice Chairman

- CC:
1. Chairman.
 2. Principal - AIMSRS.
 3. Establishment Section.
 4. Group Financial Controller / Account section City Office.



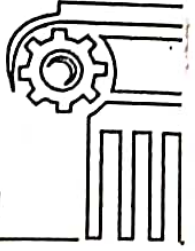
Handwritten signature and date: 04/11/19



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Mangliya Square, Near Toll Plaza,
INDORE-453771
Ph. : 0731-4730093
City Office : 301, Starlit Tower,
Y. N. Road, INDORE
Ph. : 4215338, 4060999

Ref.:AIMSR/VC/Estt./Appt./2023/122
Date: 02/03/2023

APPOINTMENT LETTER

To,
Dr. Neetika Jain
02 Radhaganj, Dewas-455001

With reference to your application/interview and selection committee recommendation dated 17/09/2022 pleased to inform you that you are appointed as **Associate Professor** in Acropolis Institute of Management Studies and Research, Indore in pay band of Rs.37400 – 67000 with effect from your date of joining i.e. 16/11/2022. The bifurcation of your CTC is tabulate below:

Heads	Monthly
Basic	37400
AGP	9000
Other	20668
Contribution of Management towards PF	1800
Contribution of Management towards Gratuity	2232
Total CTC	71,100

The Salary payable by the Institute to you is subject to deduction of Income Tax at source.

This appointment shall involve following responsibilities:-

1. Classroom teaching, tutorials and laboratory exercises in your department or as Instructed by the Head of the Department/Director/Principal.
2. Carrying out industrial visits, industrial projects, internships and consultancy services etc.
3. Career counseling to the students and personality development programs for the students.
4. Participation in appropriate responsibilities of extracurricular activities of the Department/Institute.
5. Keep the machines and equipment in good and running conditions. Developing learning material & practical/laboratory development.
6. Assessment of the students at Institute level and for University examination.
7. Participation in industry-Institute interaction, professional & community services etc.
8. Promotion of research activity in the Institute in respective field/discipline and interdisciplinary fields and publication of research work, patent and intellectual work.

Received
Neetika Jain

Page 1 of 3



9. Contribution towards welfare of students and guide them to maintain discipline in the campus.
10. Any other work assigned by Head of the Department/Director/Principal/Vice Chairman.

This appointment is subject to the following terms and conditions: -

1. That this is a full-time appointment and does not permit you to work for any other organization (including Coaching, Tuition etc.) paid or honorary.
2. That you will remain available in the Institute during the working hours of the Institute or as needed under special circumstances as directed by the head of the department/Director/Principal/Vice Chairman.
3. That your appointment will be on probation for one year which may be extended further.
4. That this appointment can be terminated with one month's notice or payment of one month's salary in lieu thereof by the management during or after the probation period.
5. That you will have to give three months notice or payment of three month's salary in lieu thereof for quitting the job, you will ordinarily be not relieved during the semester.
6. That in case if you are found violating the terms and conditions of appointment and code of conduct or committing any act of insubordination/indiscipline or in case of unsatisfactory performance or provided any false information your services will be terminated without notice.
7. That you will be granted Casual Leave on proportionate basis per month during the probation period.
8. That as a member of teaching staff you will be required to deliver lectures and engage laboratories session.
9. You will maintain confidentiality of data and information of the Institute.
10. Leaves and other facilities shall be as per the rules of the Institute.
11. That your working hours shall be from 08:30 AM to 3:00 PM or 10:30 AM to 5:00 PM as per timetable. In addition to your regular timing you shall be required to visit the Institute as and when required.
12. One month's salary will be kept as a security deposit to be deducted in four equal installments every month and shall be payable at the time of leaving the service.
13. That you will get your name removed from the RGPV, AICTE and from any other educational portal/web site from the previous Institute within 15 days, if applicable/not removed till joining.
14. You should have a personal computing facility (laptop etc. with necessary peripherals) to carry out college work smoothly.
15. You will not associate or identify with any political activities.
16. You shall dress professionally and behave in a discipline manner befitting the post you hold.
17. You shall bear your own taxation, which shall be deducted from your salary.
18. The Management will be within its right to transfer you to another department / Institute.

Received
again.



19. The age of superannuation shall be as per Institute's policy.
20. The change in your address, qualifications or of any other information given by you needs to be communicated in writing to appointing authority.
21. Your promotion shall be subject to the promotion policy of the Institute.
22. That at the end of the semester, you are required to submit PMS to HoD. The annual increment shall not be claimed by you as a matter of right but will depend upon your performance and contributions.
23. All information regarding your remuneration and terms of employment are confidential and you are requested to maintain confidentiality and not divulge any details to any other employee.
24. That Management reserves the right to amend or alter these terms and conditions in the interest of the Institution.
25. You are bound by the rules, regulations & standing orders of the Institute which are in force now or that may be introduced or amended from time to time.

Please signify your acceptance by signing and returning the duplicate copy of this appointment letter.

A
02/03/2023
(Dr. Ashok Jhawar)
Principal



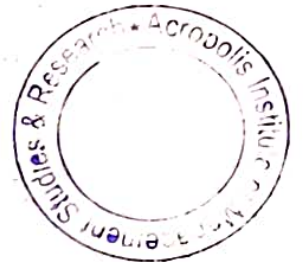
Copy to:

1. Chairman
2. Vice Chairman
3. Director, Department of Business Administration
4. Group Financial Controller
5. Dy. Registrar
6. Account Section, City Office
7. Estt. Section

To,

Dr. Neetika Jain
02 Radhaganj, Dewas-455001

Received
Neetika Jain





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AIMSR/N.APP./18/003
Date: 06/07/2018

Campus : Indore Bypass Road,
Mangla Square, INDORE - 453771
Ph. : 4730000-4730093
Fax : 0731-4730011
City Office : 301, Starlit Tower,
Y.H. Road, INDORE Ph. : 4215338
Fax : 0731-2533338

APPOINTMENT ORDER

To,
Mr. Vikas Sharma
177, Goyal Nagar, Kanadiya Road,
Indore.

Sir,

With reference to your application & interview, I have pleasure to inform that you are appointed as Assistant Professor in Commerce on the consolidated salary of Rs. 20000/- per month w.e.f. 20th June 2018.

You will be entitled to avail the transport facility by the buses for transportation of students. However, you can use your own mode of transport if you so desire.

This appointment shall involve following responsibilities:-

1. Classroom teaching, tutorials and exercises in your department or as instructed by the Principal / Director.
2. Carrying out industrial visits, industrial projects, consultancy services etc.
3. Career counseling to the students and personality development programs for the students.
4. Participation in appropriate responsibility of extracurricular activities of the Department/ Institute.
5. Developing of learning material.
6. Assessment of the students at Institute level and for university examination.
7. Participation in industry- institute- interface, community services.
8. Promotion of research activity in the institute in respective field/ discipline and also interdisciplinary fields & consultancy services.
9. Any other work assigned by the Principal / Director.

Recd.
P. Sharma



Contd...02

:: 02::

~~This appointment is subject to the following terms and conditions:-~~

1. That this is a full time appointment and does not permit you to work for any other organization, (including Coaching, Tuition etc.) paid or honorary.
2. That you will remain available in the Institute during the working hours of the Institute or as needed under special circumstances as directed by the Director/Vice Chairman.
3. That your appointment will be on probation for one year which may be extended further.
4. That this appointment can be terminated with one month's notice or payment of one month's salary lieu thereof by the management during or after the probation period.
5. That you will have to give one month notice or payment of one month's salary in lieu thereof during probation period & three months notice thereafter for quitting the job. Further, you will ordinarily be not relieved during the semester.
6. That in case if you are found to be violating the terms and conditions of appointment and code of conduct or committing any act of insubordination/indiscipline or in case of unsatisfactory performance your services will be terminated without notice.
7. That Management reserves the right to amend or alter these terms and conditions in the interest of the Institution.
8. That you will be granted Casual Leave on proportionate basis per month during the probation period.
9. You will maintain confidentially of data and information of the Institute.
10. That your working hours shall be from 08.30 A.M. to 3.00 P.M. or 10.30 A.M. to 5.00 P.M. as per time table.
11. An amount of Rs.5000/- of first two month's salary will be kept as a deposit & shall be payable at the time of leaving the service.

With best wishes,

M. K. Dube

Prof. M. K. Dube
Vice Chairman



- CC:
1. Chairman.
 2. Director- AIMSRS.
 3. Establishment Section.
 4. Group Financial Controller / Account section City Office.

Recd.
J. Balmer



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www.aimsra.ac.in

Ref.:AIMSR/Estt./Appt./ 2023/

Date: 04/09/2023

Campus : Indore Bypass Road,
Mangliya Square, Near Toll Plaza,
INDORE-453771
Ph. : 0731-4730093
City Office : 301, Starlit Tower,
Y. N. Road, INDORE
Ph. : 4215338, 4060999

APPOINTMENT LETTER

To,
Ms. Sana Burhani,
25, Ishaq Colony, Khajrana,
Indore.

With reference to your interview and selection committee recommendation dated 01/09/2023. We are pleased to inform you that you are appointed as **Officer Career Development Cell** in Acropolis Institute of Management Studies and Research, Indore in pay band of Rs.15600 – 39100 with effect from your date of joining i.e. 04/09/2023. The bifurcation of your CTC is tabulate below: -

Heads	Monthly
Consolidated	26000
Contribution of Management towards Gratuity	1251
Total CTC	27251

The Salary payable by the Institute to you is subject to deduction of Income Tax at source.

Key Responsibility Areas (KRA's)

Communication & Soft Skills Development Program

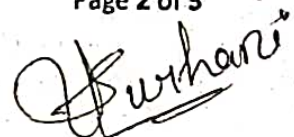
1. CDC Evaluation & Assessments
2. Responsible for designing the exclusive module for Communication & Soft Skills for the students.
3. To monitor the smooth conduct of CSDP Module (Communication & Soft Skills Development Program).
4. To prepare the schedule of the training sessions, in consultation with Group Director CDC / Principal & Time-table coordinator.
5. To conduct various Soft Skills Sessions for the students in order to prepare them for on-campus and off-campus interviews.
6. To conduct special sessions (especially for the weaker students) for improvement.
7. To prepare performance reports of the trainers and trainees.
8. Responsible for identification of students for their career mapping & categorization based on their performance, in order to monitor individual performances of every student.

Sana Burhani

9. To arrange special mentoring sessions for students in order to improve their performance.
10. To plan execute coordinate entrepreneurship activities and career development sessions.
11. Other areas of official responsibility as directed by Group Director CDC


This appointment is subject to the following terms and conditions:-

1. That the appointment is full time and does not permit employee to work for any other organization (including Coaching, Tuition etc.) paid or honorary.
2. That employees have to remain available in the Institute during the working hours (as per shift timings) of the Institute or wherever needed under special circumstances as directed by the Principal / Group Director-CDC / Vice Chairman.
3. That your appointment will be on probation for one year which may be extended further.
4. That the appointment can be terminated with one month's notice or payment of one month's salary in lieu thereof by the management during or after the probation period.
5. That an employee has to give three months notice or payment of three month's salary in lieu thereof for quitting the job and that employee will ordinarily be not relieved during the semester.
6. That in case if an employee is found violating the terms and conditions of the appointment and code of conduct or committing any act of insubordination/indiscipline or in case of unsatisfactory performance or provided any false information the services of the employee will be terminated without notice.
7. That you will be granted Casual Leave on proportionate basis per month during the probation period.
8. That maintaining confidentiality of data and information of the Institute is the responsibility of the employee.
9. That leaves and other facilities shall be applicable as per the rules of the Institute.
10. That your working hours shall be from 08:30 AM to 3:00 PM or 10:30 AM to 5:00 PM as per time-table. In addition to your regular timing you shall be required to visit the Institute as and when required.
11. One month's salary will be kept as a security deposit to be deducted in six equal installments every month and shall be payable at the time of leaving the service.
12. Employee will be required to perform the assigned duties like delivering lectures / managing laboratories / other administrative work etc.
13. That you will get your name removed from the RGPV, AICTE and from any other educational portal/web site from the previous Institute within 15 days, if applicable/not removed till joining.
14. Employee should have a personal computing facility (laptop etc, with necessary peripherals) to carry out college work smoothly,
15. Employee will not associate or identify with any political activities.
16. Employee shall dress professionally and behave in a disciplined manner befitting the post held.
17. Employee shall bear their own taxation, which shall be deducted from the salary.



18. The Management will be within its right to transfer the employee to another department / Institute.
19. The age of superannuation shall be as per Institute's policy.
20. Any change in the address, qualifications or other Information needs to be communicated immediately in writing to appointing authority.
21. The promotion shall be subject to the promotion policy of the Institute.
22. The annual increment shall not be claimed by the employee as a matter of right but will depend upon the performance and contributions.
23. Employee should settle the advance issued within 15 days.
24. Employee need to submit performance report / PMS to Group Director-CDC at the end of every semester.
25. No employee shall appear in any examination/ interviews or apply for any post outside the institution, without prior written permission of the head of the Institute.
26. No employee shall approach, directly or indirectly, any member of the society, Governing Body without following the hierarchy for any routine permission/approval/work/grievance.
27. All information regarding the remuneration and terms of employment are confidential and not to be divulged to any other employee.
28. That Management reserves the right to amend or alter these terms and conditions in the interest of the Institution.
29. All the employees are bound by the rules, regulations & standing orders of the Institute which are in force now or that may be introduced or amended from time to time.

Please signify your acceptance by signing and returning the duplicate copy of this appointment letter.


(Dr. Ashok Jhavar)
Principal

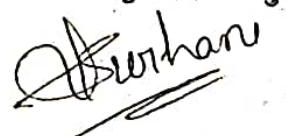


Copy to:

1. Chairman
2. Vice Chairman
3. Group Director-CDC
4. Group Financial Controller
5. Account Section, City Office
6. Estt. Section

To,

Ms. Sana Burhani,
25, Ishaq Colony, Khajrana,
Indore.



Ref.:AIMSR/Estt./Appt./ 2024/
Date: 15/01/2024

APPOINTMENT LETTER

To,
Ms. Aarti Rao
307-B, D Block, Dhanlaxmi Nagar,
Nipania, Indore

With reference to your interview and selection committee recommendation dated 05/12/2023. We are pleased to inform you that you are appointed as **Manager Career Development Cell (Training and Placement)** in Acropolis Institute of Management Studies and Research, Indore in pay band of **Rs.15600 – 39100** with effect from your date of joining i.e. 15/01/2024. The bifurcation of your CTC is tabulate below:

Heads	Monthly
Basic	27652
AGP	6000
Other	3929
Contribution of Management towards PF	1800
Contribution of Management towards Gratuity	1619
Total CTC	41000

The Salary payable by the Institute to you is subject to deduction of Income Tax at source.

Key Responsibility Areas (KRA's)

Career Development Cell

1. To ensure proper monitoring of the Training Delivery, Modules and Pedagogy of the Course content for training.
2. To co-ordinate with CDC for the soft skill and additional inputs to be given for better placement of the students.
3. To monitor the attendance of students and recommending necessary corrective steps under the approval of the Principal AIMSRA in CDC Sessions.
4. To ensure proper conduct and decorum in the classes and other activities.
5. Summer Internships-Monitoring the no. of SIP Proposal sent or received and student Selected.
6. Online assortment and registration of all assessment and evaluation done by CDC

5. That an employee has to give three months notice or payment of three month's salary in lieu thereof for quitting the job and that employee will ordinarily be not relieved during the semester.
6. That in case if an employee is found violating the terms and conditions of the appointment and code of conduct or committing any act of insubordination/indiscipline or in case of unsatisfactory performance or provided any false information the services of the employee will be terminated without notice.
7. That you will be granted Casual Leave on proportionate basis per month during the probation period.
8. That maintaining confidentiality of data and information of the Institute is the responsibility of the employee.
9. That leaves and other facilities shall be applicable as per the rules of the Institute.
10. That your working hours shall be from 08:30 AM to 3:00 PM or 10:30 AM to 5:00 PM as per time-table. In addition to your regular timing you shall be required to visit the Institute as and when required.
11. One month's salary will be kept as a security deposit to be deducted in six equal installments every month and shall be payable at the time of leaving the service.
12. Employee will be required to perform the assigned duties like delivering lectures / managing laboratories / other administrative work etc.
13. That you will get your name removed from the RGPV, AICTE and from any other educational portal/web site from the previous Institute within 15 days, if applicable/not removed till joining.
14. Employee should have a personal computing facility (laptop etc, with necessary peripherals) to carry out college work smoothly,
15. Employee will not associate or identify with any political activities.
16. Employee shall dress professionally and behave in a disciplined manner befitting the post held.
17. Employee shall bear their own taxation, which shall be deducted from the salary.
18. The Management will be within its right to transfer the employee to another department / Institute.
19. The age of superannuation shall be as per Institute's policy.
20. Any change in the address, qualifications or other information needs to be communicated immediately in writing to appointing authority.
21. The promotion shall be subject to the promotion policy of the Institute.
22. The annual increment shall not be claimed by the employee as a matter of right but will depend upon the performance and contributions.
23. Employee should settle the advance issued within 15 days.
24. Employee need to submit performance report / PMS to Group Director-CDC at the end of every semester.
25. No employee shall appear in any examination/ interviews or apply for any post outside the Institution, without prior written permission of the head of the institute.
26. No employee shall approach, directly or indirectly, any member of the society, Governing Body

7. Coordination during Campus Placement drives and assisting in the student-placement activities.
8. CDC Evaluation & Assessments
9. To develop alumni cell in coordination with various departments.
10. To conduct the activities of alumni of Institute like alumni meet, reunion etc.
11. To monitor the activities of alumni association and coordinate with them.
12. To spread awareness among students about the process of student grievance cell.
13. To develop grievance redressal system in coordination with faculty & student representatives.
14. To coordinate with NAAC cell & help in finalizing documents as per the requirement of NAAC.
15. To help in filing/ Submission of NAAC SSR within prescribed deadline.
16. Designing e placement brochures.
17. Representing Acropolis and Coordination of students during campus placement drives.
18. To coordinate with deptt placement coordinator and Head Placement & Peer for conducting campus placement drives in the Institute.
19. Responsible for getting leads for enrichment of company database for placement opportunities in coordination with Head Placements.
20. To coordinate with Deptt coordinator-placement cell for arrangement and execution of various special training sessions for students in order to prepare them for on-campus and off-campus interviews.
21. Responsible for conducting of online mock tests for students on a regular basis for grooming of students and polishing their skills

Communication & Soft Skills Development Program

1. Responsible for designing the exclusive module for Communication & Soft Skills for the students.
2. To monitor the smooth conduct of CSDP Module (Communication & Soft Skills Development Program).
3. To prepare the schedule of the training sessions, in consultation with Principal & Time-table coordinator.
4. To arrange special sessions (especially for the weaker students) for improvement.
5. To arrange and execute various aptitude and analytical skills development Sessions for the students in order to prepare them for on-campus and off-campus interviews
6. To monitor the training sessions by taking regular feedback of the training and trainers in order to provide customized industry-oriented training to students.
7. To prepare performance reports of the trainers and trainees.

This appointment is subject to the following terms and conditions:-

1. That the appointment is full time and does not permit employee to work for any other organization (including Coaching, Tuition etc.) paid or honorary.
2. That employees have to remain available in the Institute during the working hours (as per shift timings) of the institute or wherever needed under special circumstances as directed by the Principal / Group Director-CDC / Vice Chairman.
3. That your appointment will be on probation for one year which may be extended further.
4. That the appointment can be terminated with one month's notice or payment of one month's salary in lieu thereof by the management during or after the probation period.

Handwritten signature

without following the hierarchy for any routine permission/approval/work/grievance.

27. All information regarding the remuneration and terms of employment are confidential and not to be divulged to any other employee.
28. That Management reserves the right to amend or alter these terms and conditions in the interest of the Institution.
29. All the employees are bound by the rules, regulations & standing orders of the Institute which are in force now or that may be introduced or amended from time to time.

Please signify your acceptance by signing and returning the duplicate copy of this appointment letter.

A 15/11/24
(Dr. Ashok Jhawar)
Principal



Copy to:

1. Chairman
2. Vice Chairman
3. Group Director-CDC
4. Group Financial Controller
5. Account Section, City Office
6. Estt. Section

To,

Ms. Aarti Rao
307-B, D Block, Dhanlaxmi Nagar,
Nipania, Indore

Aarti Rao

9



D. RATHORE MEN'S BOUTIQUE

324, Jawahar Marg, Mukeripura, Indore (M.P.)
Mob : 9826291570, 9752407273
Email. drathoremensboutique@gmail.com.
GSTIN/UIN : 23AFJPR2320G1ZS

Invoice No. 810

Date - 22/08/2024

Buyer - ACROPOLIS INSTITUTE OF MANAGEMENT STUDIES & RESEARCH
INDORE (M.P.)

-:BBA:-

➤ DRESS - 88 X 4000 - 352000/-

Total

352000/-

COMPANY BANK DETAILS
BANK NAME - STATE BANK OF INDIA
A/C NO. - 35622761028
BRANCH & IFC CODE - SRING030360

D RATHORE MEN'S BOUTIQUE

Authorized Signatory



GST INVOICE

(ORIGINAL FOR RECIPIENT)

9

MUFADDAL BAG INDUSTRIES
 V2, BACHRA BAKHAL,
 INDORE,
 GSTIN/UIN: 23ADPPL0171M1ZE
 State Name : Madhya Pradesh, Code : 23
 E-Mail : mustansirokhandwala@yahoo.in

Consignee (Ship to)
Acropolis Institute of Technology & Research
 Indore
 State Name : Madhya Pradesh, Code : 23

Buyer (Bill to)
Acropolis Institute of Technology & Research
 Indore
 State Name : Madhya Pradesh, Code : 23

Invoice No. e-Way Bill No. Dated
MBU23-24/8832 **26-Sep-23**

Delivery Note Mode/Terms of Payment

Reference No. & Date. Other Reference

Buyer's Order No. Dated

Dispatch Doc No. Delivery Note Date

Dispatched through Destination

Terms of Delivery

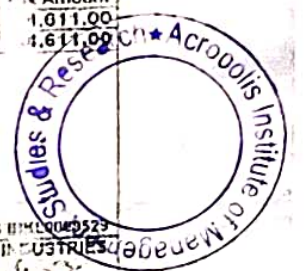
Description of Goods	HSN/SAC	Quantity	Rate	Per	Amount
COLLEGE BAG (4202)	4202	930.000 Pcs	385.00	Pcs	3,58,950.00
					CGST 32,305.50
					SGST 32,305.50
					CARTAGE OUTWARDS 900.00
Total					Rs. 4,23,561.00

Amount Chargeable (in words) **Indian Rupees Four Lakh Twenty Three Thousand Five Hundred Sixty One Only**

HSN/SAC	Taxable Value	Central Tax		State Tax		Total Amount
		Rate	Amount	Rate	Amount	
4202	3,58,950.00	9%	32,305.50	9%	32,305.50	1,011.00
Total			32,305.50		32,305.50	1,611.00

Tax Amount (in words) : **Indian Rupees Sixty Four Thousand Six Hundred Eleven Only**

Company's Bank Details
 Bank Name : IDBI Bank
 A/c No. : 6529102000021836
 Branch & IFS Code: NANDLAL PURA JAWAHAR MARG 3 INDIA 0009529
 for MUFADDAL BAG INDUSTRIES



Declaration
 We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.

SUBJECT TO INDORE JURISDICTION
 This is a Computer Generated Invoice



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(Run by: Teach for India Education and Research Samiti)

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Email: almsr@acropolis.in, Website: www.almsr.ac.in

AIMSR Activities under Clubs

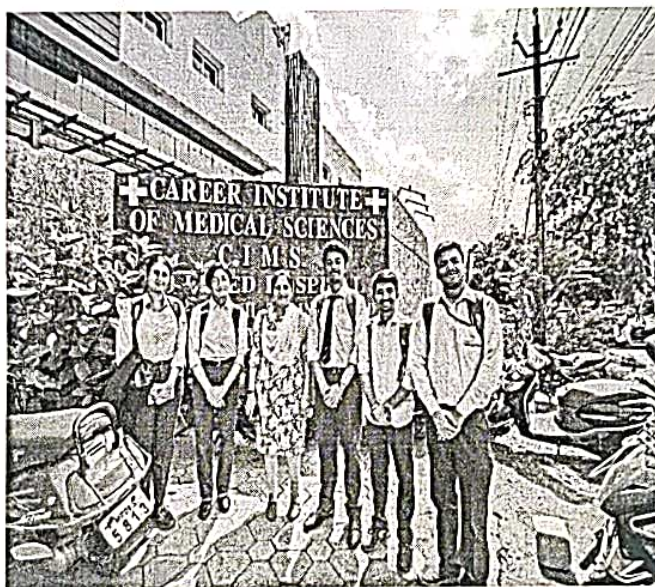
S.No.	Date	Activity
Solaris Club		
1	11/10/2023	Guest Lecture by Dr. Hem Chandra Jha
2	20/10/2023	Millet Mela
3	12/1/2024	IMC Waste Treatment Plant, Devguradiya
4	2/01/2024 - 10/01/2024	Value addition Course on "How to read Scientific Literature"
5	28/02/2024 - 29/02/2024	Workshop on Mushroom cultivation
6	26/02/2024	Science Popularization Program
Management Medusa		
7	30/11/2023	Persuasion Master
FinAcro		
8	10/1/2024	Poster Presentation Competition
Psychonauts		
9	13/9/2024	Poster making competition
10	16/1/2024	Investiture ceremony
11	5/3/2024	Session on mental health
12	18/1/2023	Investiture ceremony
13	10/2/2023	Nukkad Natak



BIRAC (Biotechnology Industry Research Assistant Council) E-Yuva Scheme

Empowering youth for undertaking value added innovative translational research

Ten students of B.Sc.(Biotechnology, first year) in two teams were shortlisted for presenting their innovative ideas at BIRAC- E-YUVA Center, Bhopal. The topics were prepared under the guidance of Head, Department of Biosciences, Dr. Pranoti Belapurkar and their mentors Dr. Kiran Paliwal & Dr. Pratibha Chauhan, Faculty of Biosciences Dr. Shivani Dubey & Dr. Pragya Goyal also provided expertise related to topics of biodiesel & dietary supplement for iron boosting.



Approval of transportation (E-Mail)

Mail | Compose

Inbox 675

Chat | Starred

Meet | Snoozed

Sent

Drafts 19

More

Labels +

KIRAN PALIWAL <kiranpaliwal@scrcopolis.edu.in>
to transport, transportmanager, PRANOTI Ashck

Wed, Apr 24, 11:35 AM

Sir,

Vehicles(02 cars) are required for the E-Yuva presentation of students at Bhopal . Details are given below.

Vehicles required on date: 25/02/24

1 CAR
Pick up time: 5:30 am
From Vishal Mega Mart , Vijay Nagar to Career College, BHEL Square, Govindpura, Bhopal
Departure time : 3:00pm
From Career College, BHEL Square, Govindpura, Bhopal to Vishal mega mart , vijay nagar)

2 CAR
Pick up time: 5:30 am
From Prestige College, sch.no.78 ,Vijay Nagar to Career College, BHEL Square, Govindpura, Bhopal
Departure time : 3:00pm
(From Career College, BHEL Square, Govindpura, Bhopal to Prestige College, sch.no.78 ,vijay nagar)

Vehicle required for how many hours-1day
Name and Mobile number of the Faculty
AIMSR - Dr. Kiran Paliwal, 7240971443
Purpose - E-Yuva Presentation (Faculty & students of AIMSR)

Thanks and Regards
Dr. Kiran Paliwal
Asst. Professor

Mail | Compose

Inbox 675

Chat | Starred

Meet | Snoozed

Sent

Drafts 19

More

Labels +

Arrangement of Transportation for EYUVA Presentation in Bhopal

KIRAN PALIWAL <kiranpaliwal@scrcopolis.edu.in>
to PRANOTI

Fri, Apr 5, 11:54 AM

Respected sir/madam

This is to inform you that two projects of our department has been shortlisted under BIRAC, E-Yuva scheme. For the further scrutinising the students have to give presentation The presentation is scheduled on 24/04/24 in Bhopal 10 students with their two mentors will attend the same. we kindly request your assistance in arranging vehicles to transport the students to and from the event venue.

Thanks & regards,

Dr.Kiran paliwal
Assistant Professor
Department of Biosciences

Reply Forward



Mail

Inbox 675

Starred

Snoozed


Sent

Drafts 19

More

Labels +

Asst. Professor
Department of Biosciences
AIMSR



Acro Transport <transport@acropolis.in>
to me, transportmanager, PRANGL, Ashok

Wed, Apr 24, 2:19 AM

Dear Mam,

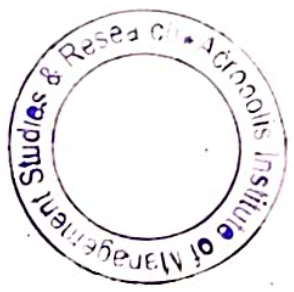
Please find below the vehicle details

1st Car
for Vishal Mega Mart, Vijay Nagar

Vehicle: Bolero Neo (7420)
Driver Name: Vikas Gathle
Mobile No.: 6260329191

2nd Car
for Prestige College, sch No 78, Vijay Nagar

Driver Name: Dharmendra Barod
Mobile Number: 8559650132
Vehicle No.: 0287 (Bolero)





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Tel: 0731-4730093, 01 Email: aimsr@acropolis.in, Website : www.aimsr.ac.in

Activity Report

Organizer	Department of Biosciences, AIMSRS
Name of Event	Launch of First Edition Of Vigyanam
Date of Event	3 rd September, 2024.
Time	11:00 AM to 12:00 PM
Venue	Central Audi, AITR
Objective of the event	To foster scientific curiosity, promote knowledge sharing, and keep students updated on global advancements
Faculty coordinator	Dr. Pragya Goyal
No. of Participants	100
Details of Participants	B.Sc. Biotechnology I Yr, M.Sc. Biotechnology I Semstudents + Vigyanam Team
Dignitaries Present:	Shri Ashish Sojatia, Group Chairman, AGI, Dr. JL Bhandari, Group Director, AGI, Dr. Ashok Jhawar, Principal, AIMSRS
Faculty Present:	Dr. PranotiBelapurkar, Ms. Rati Nair, Ms. Pushpanjali Sharma, Dr. Seema Kelotra, Dr. Pragya Goyal, Dr. Shweta Kanungo, Dr. Kiran Paliwal, Dr. PratibhaChouhan, Dr. AnujaGawade, Dr. VinarsDawane

Event Highlights:

The Department of Biosciences, AIMSRS, organized the grand launch of its first-ever departmental science magazine, Vigyanam, on the 3rd of September, 2024, during the departmental orientation ceremony for the new students and their parents. The event was held with the aim of fostering scientific curiosity and promoting knowledge sharing among students.

The event commenced with the lighting of the lamp by the dignitaries and new students, symbolizing the light of knowledge. This was followed by the official launch of the magazine Vigyanam by Shri Ashish Sojatia (Group Chairman, AGI), Dr. JL Bhandari (Group Director, AGI), and Dr. Ashok Jhawar (Principal, AIMSRS) and the head of the department, Dr. PranotiBelapurkar. The event was anchored by Dr. VinarsDawane and Ms. Pushpanjali Sharma, who smoothly guided the proceedings.

During the event, Kriti Yadav, the winner of the cover page designing competition for Vigyanam was felicitated by the dignitaries. Additionally, the entire Vigyanam student team (editorial, technical and organizing committee) was recognized and appreciated for their hard work and dedication in making the magazine a reality.

Pragya





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The event concluded with a group photo session and a vote of thanks by Ms. Pushpanjali Sharma. Both students and parents present at the event expressed their appreciation for the successful launch of Vigyanam.

Report Prepared By:
DrPragya Goyal

Few Glimpses



Pragya





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Tel: 0731-4730093, 01 Email: almr@acropolis.in, Website : www.almr.ac.in



Acropolis Institute of Management Studies and Research, Indore

ACTIVITY REPORT



Investiture Ceremony

Department	Humanities
Name of Event	Investiture Ceremony – Psychonauts (Psychology Club)
Date of Event	16 th January 2024, Tuesday
Objective of Event	<ul style="list-style-type: none">• Formal Installation of Psychonauts• Providing badges to the office bearers of the club.
Coordinator	Dr. Shraddha Tiwari, Associate Professor, Humanities
Details of Participants	Heads of Departments, Faculty members, Students of B.A. and B. Com.

The investiture ceremony was organized on 16th January 2024, Tuesday at seminar hall to provide badges to the office bearers of **Psychonauts**. The guest of honour for the event were Smt. Namrata Sojatia (Co-Chairman, Acro Care), Smt. Shraddha Sojatia (Co-Chairman, Acro Care), Dr. Jayantilal Bhandari (Group Director, Acropolis Group of Institutions), and Dr. Ashok Jhawar (Principal, AIMSIR).

The event began with lighting of the lamp by the guests followed by a captivating powerpoint presentation delivered by the Vice President of Psychonauts club, Shivangi Nikumbh. This presentation further delved into the vision, mission and details of the past events organised by the club. This insightful introduction provided a glimpse of the club.

Dr. Jayantilal Bhandari (Group Director, Acropolis Group of Institutions) addressed the gathering. His encouraging words provided invaluable guidance and support, motivating the team to embrace their leadership roles with dedication and passion.

The event took a creative turn with an educational talk show presented through a skit on obsessive-compulsive disorder (OCD). This engaging performance not only raised awareness about mental health challenges but also sparked conversations about empathy and understanding. Each office bearer received their badge, symbolizing their official induction

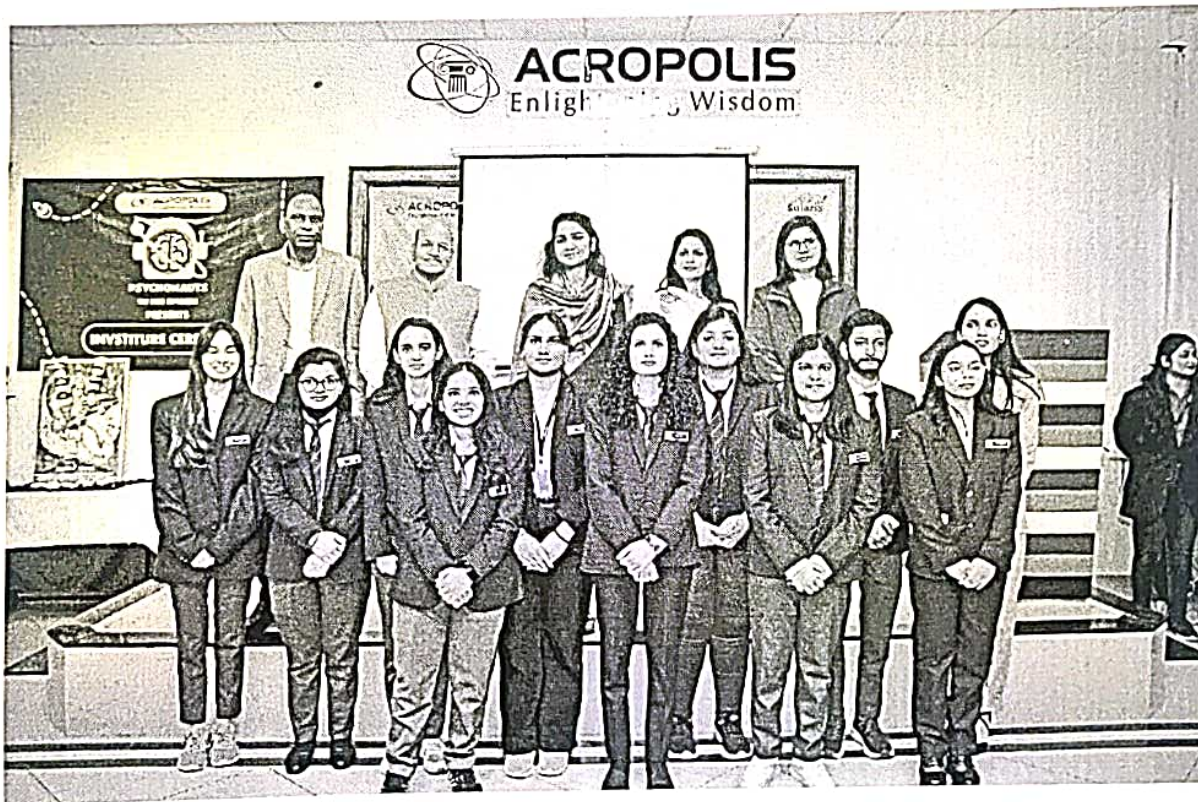


into their respective roles. This was followed by a solemn oath-taking ceremony, where the members pledged to uphold the club's values and fulfil their responsibilities with integrity and commitment. Shrushti Jain, the President of the Psychonauts Club, then delivered an inspiring speech. She outlined the club & exciting plans for the upcoming year, emphasizing the importance of active participation and collaboration from all members.

To express the gratitude to the guests for their presence and support, the club presented them with creative mementos as tokens of appreciation. Ms Tulika Mukherjee delivered a heartfelt closing speech, expressing her gratitude to the invited guests of honour, Dr Shraddha Tiwari (Convener - Psychonauts Club), Ms Shreya Bhargava (Co-convener - Psychonauts Club) and everyone who contributed to the Ceremony & success.

The Psychonauts Club Investiture Ceremony concluded on a positive note, leaving the audience with a renewed sense of purpose and excitement for the future. The event not only commemorated the induction of the new leadership but also served as a platform to celebrate the club and strengthen its commitment to promoting mental health awareness within the institute community.





Acropolis Institute of Management Studies and Research, Indore

ACTIVITY REPORT



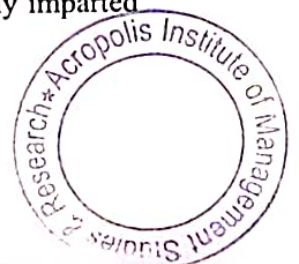
MENTAL HEALTH EDUCATION SESSION

Department	Humanities
Name of Event	Mental health education session
Date of Event	5 th March 2024, Tuesday
Objective of Event	<ul style="list-style-type: none">○ To explore the dynamics of interpersonal relationships○ To learn the healthy coping strategies for stress and anxiety○ To address the queries related to career in clinical psychology.
Resource Person	Dr. Abhijeet Soni (Psychiatrist, Shalby Hospitals)
Coordinator	Dr. Shraddha Tiwari, Associate Professor, Humanities
Details of Participants	Heads of Departments, Faculty members, Students of B.A.

The Mental health education session was organized on 5th March 2024, Tuesday at Activity Hall, Department of Business Administration to provide a insightful session to the students about Interpersonal Relationships - Nurturing Meaningful Connections by renowned Psychiatrist Dr. Abhijeet Soni.

The event began with the welcome of guest Dr. Abhijeet Soni, with a bouquet of flowers presented by Dr. Shraddha Tiwari (Associate Professor, Humanities Department). Then the session was continued by Shivangi Nikumbh (Vice president- Psychonauts Club) with the introduction of Dr. Abhijeet Soni (MBBS, Psychiatry Specialist, Sexologist). Dr. Soni had helped numerous patients in his 13 years of experience as a psychiatrist.

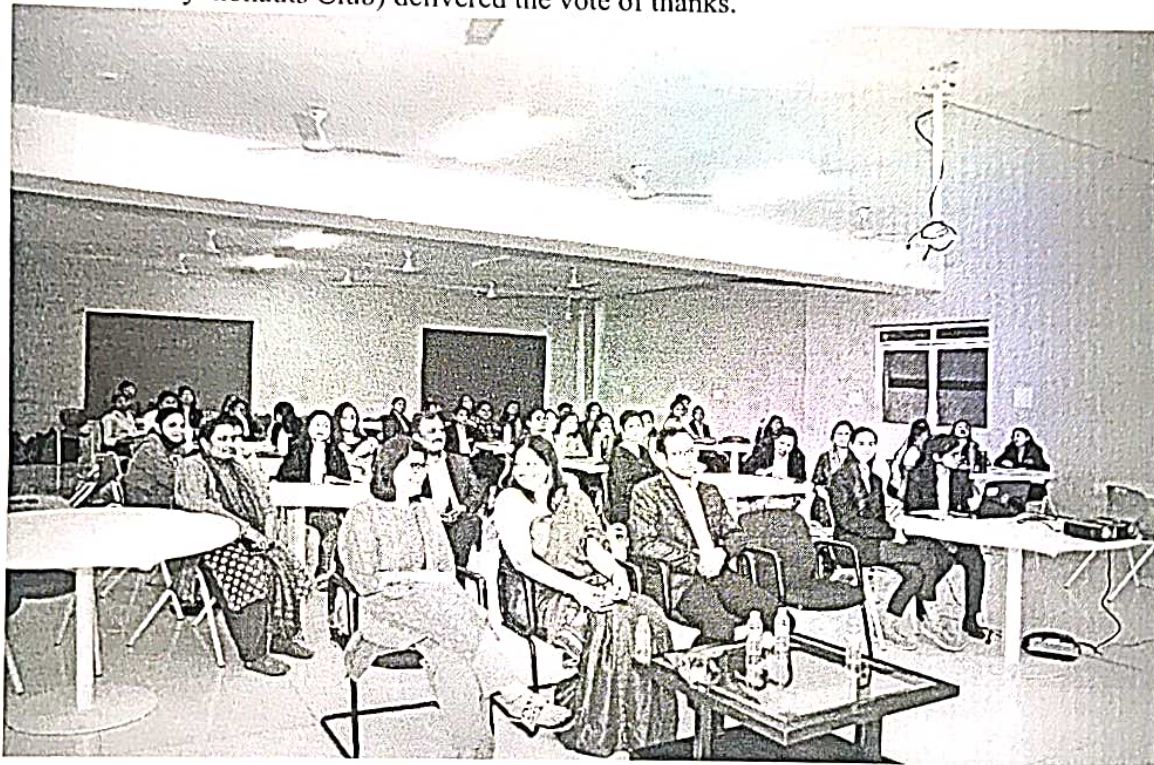
Dr. Soni began with an ice-breaking discussion on Interpersonal Relationships. Dr. Soni thoughtfully made the whole session engaging and interactive. Dr. Soni graciously imparted

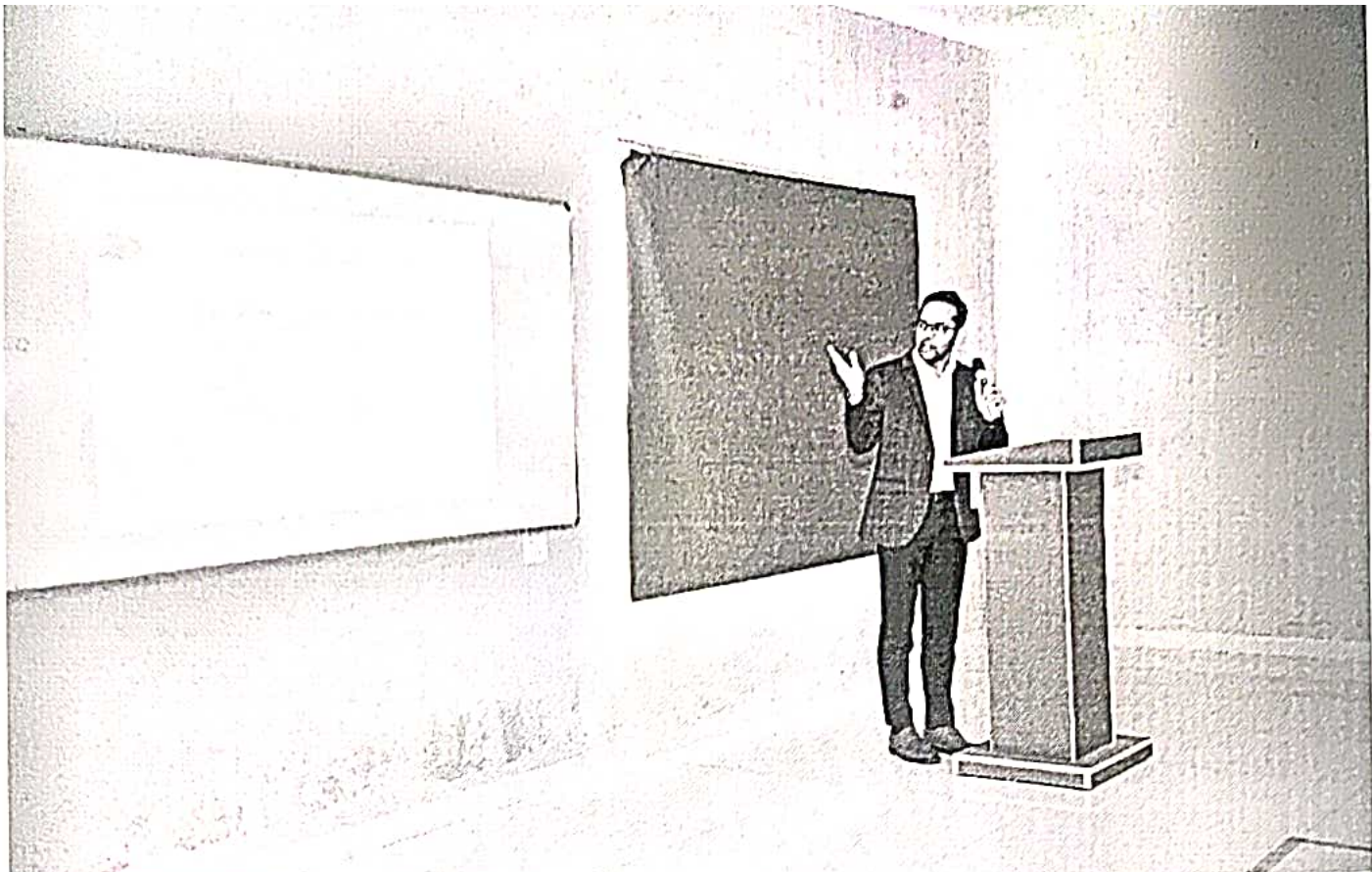


his wealth of psychiatric experiences and case studies, shedding light on the complexities of the human mind and the challenges within the field.

The session was then followed by question-and-answer round, where students asked multiple questions regarding interpersonal relationships, emotional issues, coping techniques for internal conflicts etc. Dr. Soni answered all the questions enthusiastically and he provided the detailed explanation for each and every question.

Dr. Pranoti Belapurkar (HOD, Biosciences) presented a memento as a token of appreciation and remembrance to Dr. Abhijeet Soni . To conclude the session, Dr. Shraddha Tiwari (Convener-Psychonauts Club) delivered the vote of thanks.









Acropolis Institute of Management Studies and Research, Indore

Activity Report

Department	Department of Humanities
Name of Event	Poster Making Competition
Date of Event	Sept. 13 th , 2023
Mode	Offline
Objective of Event	To raise awareness on World Suicide Prevention Week i.e. Sept. 10 th to Sept. 16 th , 2023
Dignitaries Present	Principal and HODs of all the Departments, AIMSRS
Details of Participants	Students from B.A., B.com., and B.Sc.

Report:

Psychonauts Club is a student driven body which has been made with a vision to provide platform that helps to explore the multidimensionality of individuals and community leading to attainment of social, emotional and Psychological well-being.

Psychonauts club organized a poster-making competition to raise awareness about Suicide Prevention. On **Sept. 11th, 2023**, in commemoration of **World Suicide Prevention Week** i.e. from Sept. 10th to Sept. 16th 2023, the students from the B.A., B.com., and B.Sc. participated in the event. The theme of the competition was "Creating Hope Through Actions". The competition saw enthusiastic participation from students.



Over 18 students registered for the event, reflecting their commitment to addressing the critical issues related to suicide prevention. The diversity of participants added richness to the creative expressions showcased during the competition. On 13th September, a distinguished panel of judges, including Heads of Departments from various academic disciplines, evaluated the posters. Notably, Dr. Pranoti Belapurkar (HOD, Biosciences), Dr. Smriti Jain (HOD, Computer Sciences) and Dr. Sonali Jain (HOD, Commerce), lent their expertise to assess the posters. After a meticulous evaluation, the top three winners were announced. The first position was bagged by Girjesh Kumari of B.A. 3rd year, the second position was secured by Shivangi Nikumbh of B.A. 2nd year, and the 3rd position was secured by Kanishka Juneja of B. Com 1st year. In addition to the above, all the posters were displayed in the premises of AIMSRS for the whole World Suicide Prevention Week.

The poster-making competition proved to be a resounding success in accomplishing its objectives. The event successfully raised awareness about suicide prevention, encouraging students to engage in meaningful conversations about mental health. Students from different academic backgrounds showcased their creativity and artistic talents, emphasizing the importance of addressing mental health through diverse mediums. The competition fostered unity and collaboration among students from various disciplines, promoting a sense of belonging and shared responsibility.

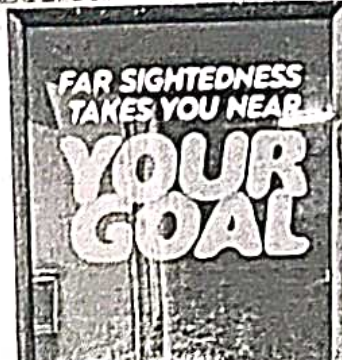
The event organized by the Psychonauts club in conjunction with students from B.A., B.Com., and B.Sc. was a noteworthy initiative to mark World Suicide Prevention Week. It not only raised awareness about suicide prevention but also served as a platform for students to express themselves creatively and collaboratively. Such events play a crucial role in promoting mental health awareness and encouraging individuals to seek help when needed. The Psychonauts club is committed to continuing their efforts to address mental health issues within the community, reduce the misconceptions and stigma, encourage those who are suffering to seek help and finding a support network.

Report prepared by:
Shreya Bhargava
Co-convener, Psychonauts Club
Department of Humanities



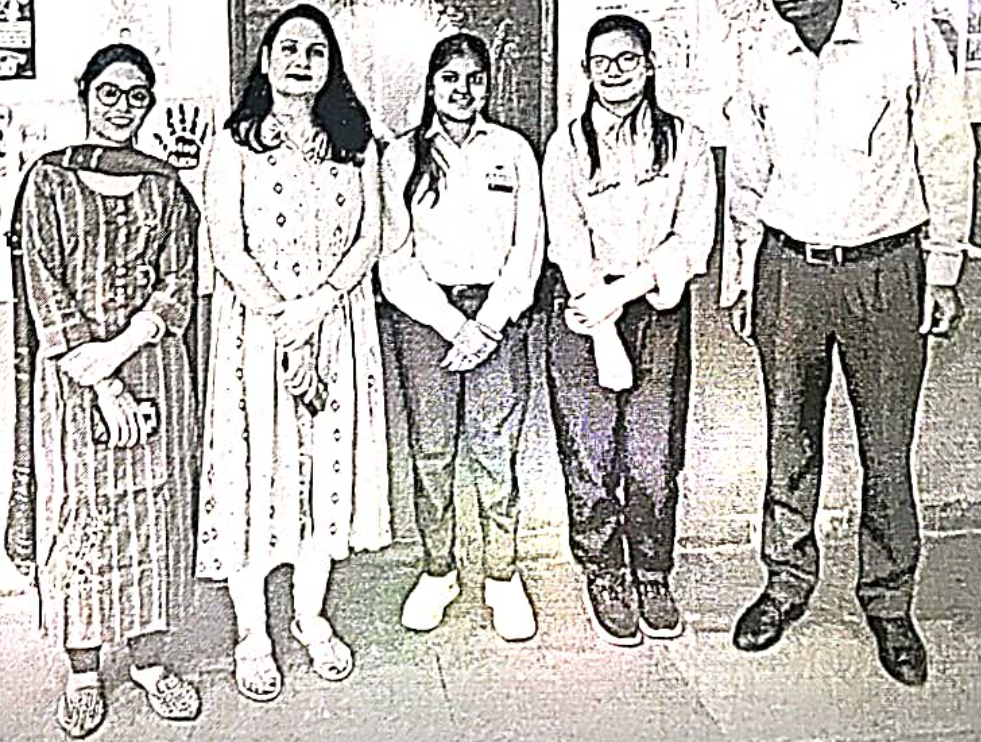


PSYCHONAUTS CLUB PRESENTS POSTER MAKING COMPETITION

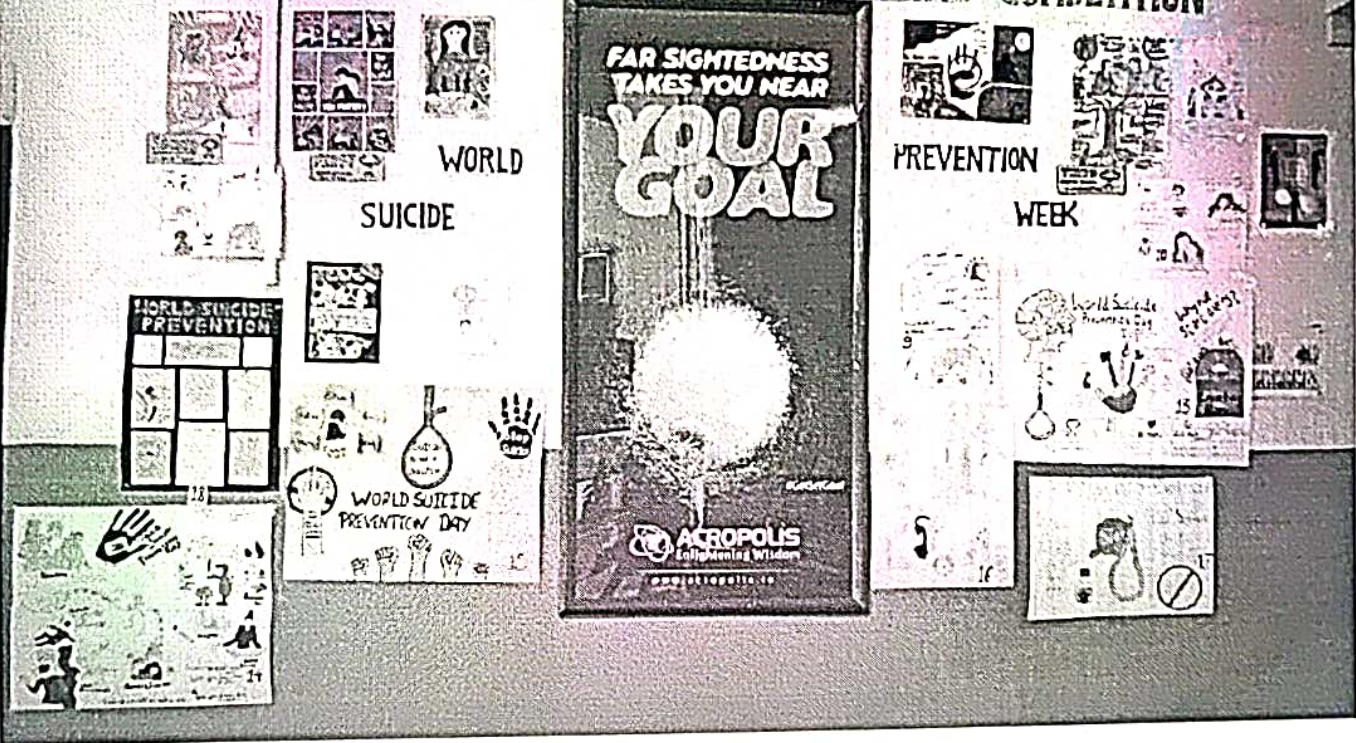


WORLD
SUICIDE

PREVENTION
WEEK



PSYCHONAUTS CLUB PRESENTS FOSTER MAKING COMPETITION



ACTIVITY REPORT



Investiture Ceremony of “Psychonauts” (Psychology Club) by Department of Humanities, AIMS R

Department	Humanities
Name of Event	Investiture Ceremony – Psychonauts (Psychology Club)
Date of Event	18 th January 2023, Wednesday
Objective of Event	<ul style="list-style-type: none">• Formal Installation of Psychonauts• Providing badges to the office bearers of the club.
Coordinator	Dr. Shraddha Tiwari, Associate Professor, Humanities
Details of Participants	Heads of Departments, Faculty members, Students of B.A. and B. Com.

Recognition and education are important ways to remove the stigma associated with mental illness. Talking openly about mental health can reduce the misconceptions and stigma, and can encourage those who are suffering to seek help and find a support network.

We all play the roles of caregivers, friends, and loved ones to someone and it is important to understand the impact that mental health has on daily life. With this vision a psychology club “Psychonauts” is constituted.

Psychonauts is a student driven body to provide a platform that helps to explore the multidimensionality of individuals and community leading to attainment of social, emotional, and psychological well-being. It’s mission is to bring a revolutionary change in the society through psychological research, workshops, seminars, self-reflective and social engagement activities driven by student body.

An investiture ceremony was organized on 18th January 2023, wednesday at seminar hall to provide badges to the office bearers of **Psychonauts**. The guest of honour for the event were Smt. Namrata Sojatia (Co-Chairman, Acro Care), Smt. Shraddha Sojatia (Co-Chairman, Acro Care), Dr. Jayantilal Bhandari (Group Director, Acropolis Group of Institutions), and Dr. Ashok Jhavar (Principal, AIMS R).

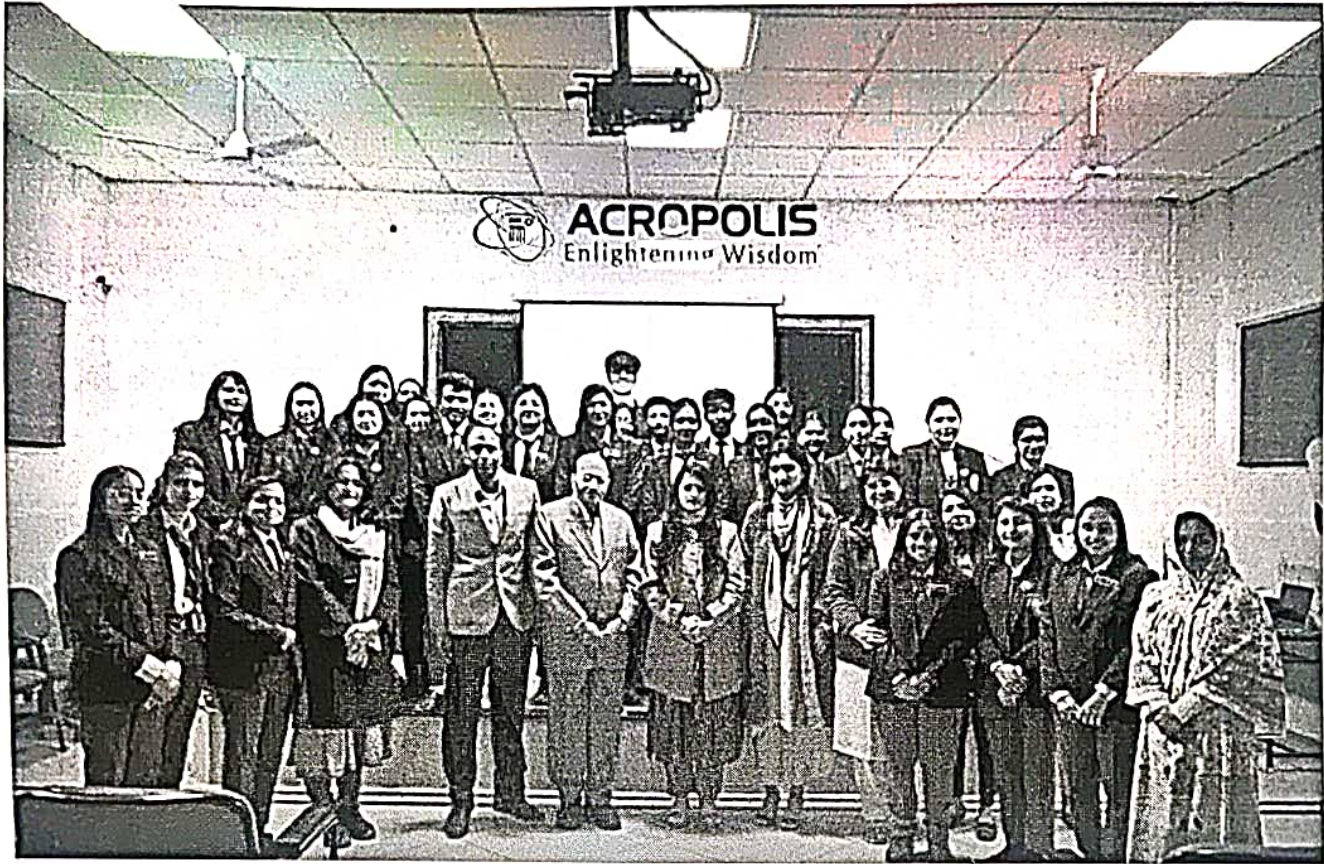
The event began with seeking blessings through lightening of the lamp followed by introduction of vision, mission and the need to establish the club representing data and statistics through a power point presentation. Then, the members recieved their designated



badges followed by an oath taking ceremony. Dr. Jayantilal Bhandari (Group Director, Acropolis Group of Institutions) threw light on the current trend of mental health cases in India and explained the importance of constituting a psychology club for the growth of the institution and betterment of society. Smt. Shraddha Sojatia (Co-Chairman, Acro Care) in her address appreciated the initiative and shared insights about how various fun learning activities (like psychological film screenings and discussion, DIY stress buster balls etc) can be planned for raising the awareness.

The program came to end with a skit performance to create awareness about mental wellness, being vocal about emotional and mental issues, and seeking help when in need.





ACTIVITY REPORT

Nukkad Natak on Myths vs Facts about Mental Health by Psychonauts (Psychology Club)

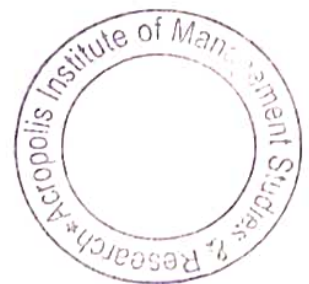
Department	Humanities
Name of Event	Nukkad Natak on Myths vs Facts about Mental Health
Date of Event	10th February 2023, Friday
Objective of Event	<ul style="list-style-type: none">• To spread awareness about mental health conditions• To develop an understanding of how the psychological disorders are misapprehend as superstitions.
Coordinator	Dr. Shraddha Tiwari, Associate Professor, Humanities
Co- Coordinator	Ms. Aakanksha Saxena, Teaching Assistant and Assistant Counsellor
Details of Participants	Psychonauts, Students of B.A. Department

Nukkad Natak are a type of street play that are proudly associated with our magnificent cultural history and it is one of the oldest form of storytelling and was used in communicating and connecting with the general public on important issues. Every day the news media, television programmes, movies, and the internet virtually bombard us with assertions about a wide range of psychological issues. Many people are misinformed about psychology as they are informed. In our society many mental health disorders are misapprehend as superstitions also and are said to be cured by religious practices rather than seeking help from mental health professional.

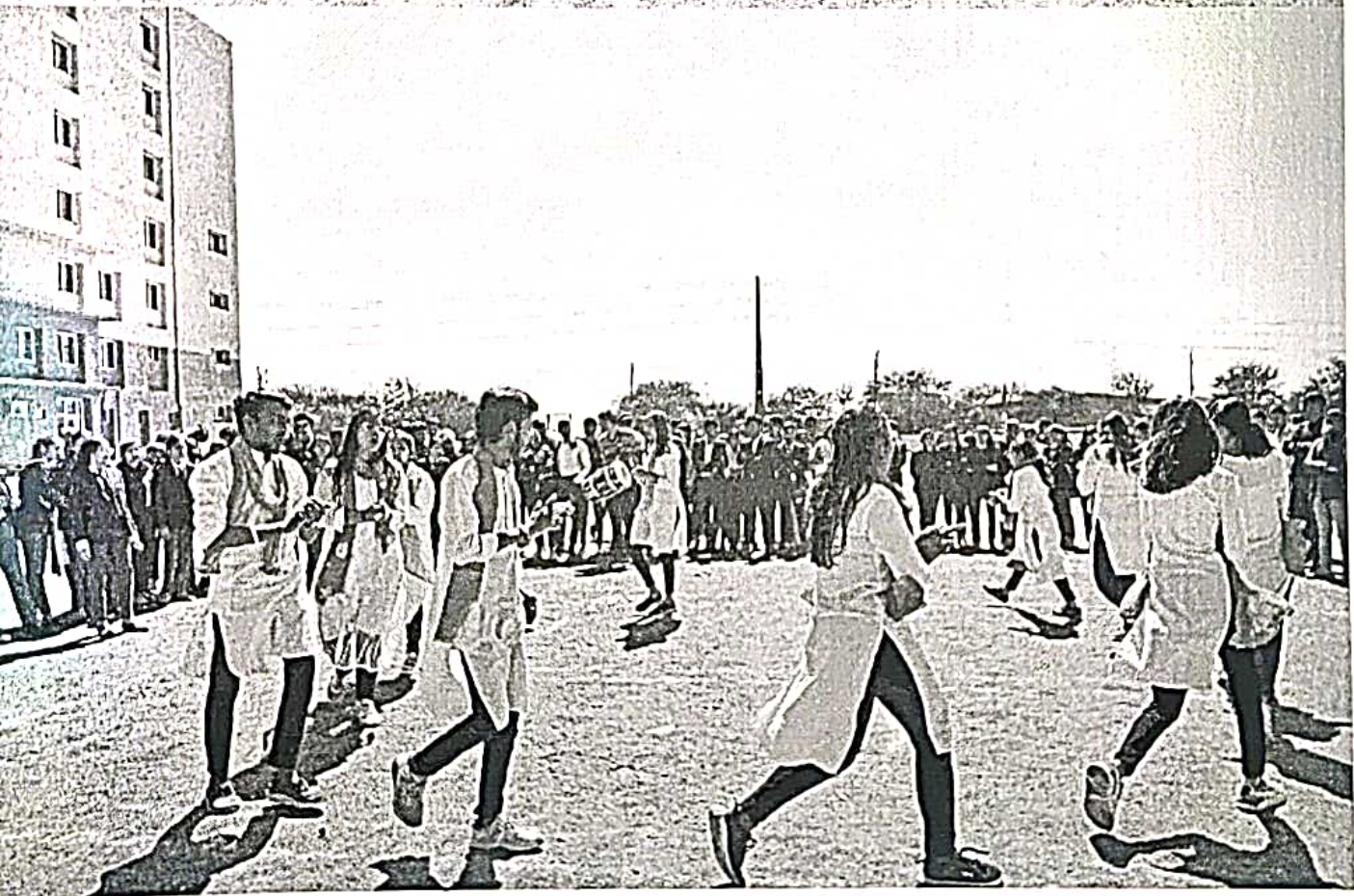
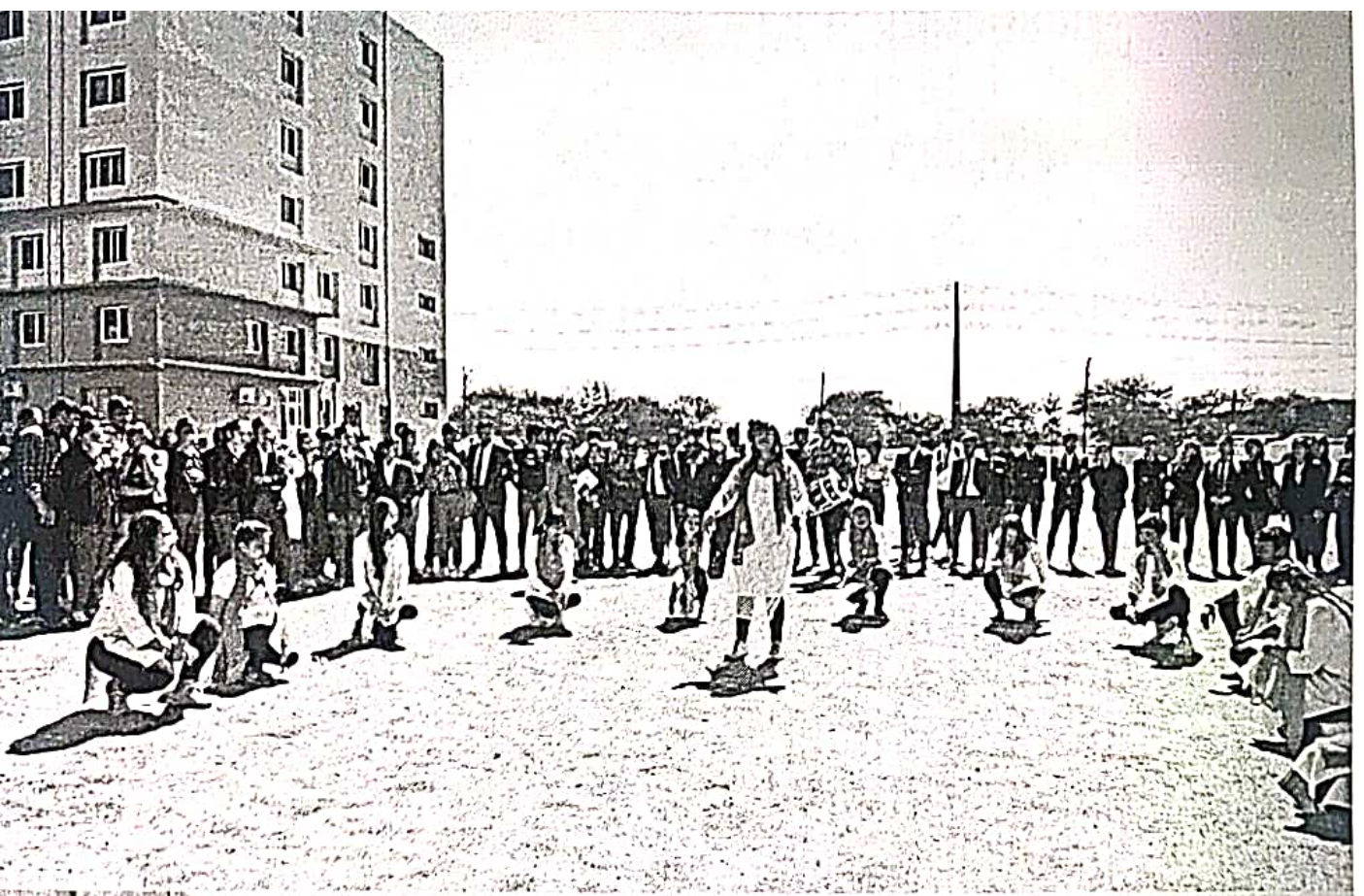
Thus, to create awareness about such myths about mental health, **Psychonauts** performed a nukkad natak with great zeal and enthusiasm at AIMS ground at 12:30 PM on 10th February, 2023.

The Psychonauts conveyed a powerful message through their performance enacting symptoms of disorders like depression, schizophrenia, bipolar disorder, stigma regarding psychotherapy and things a psychology student often hear in the society. Around 200 students along with the faculty members gathered at the ground and connected well with the message conveyed. This unique exposure to the BA students enlightened them on aspects of self-reliance and teamwork.











"The science of today ultimately becomes the technology of tomorrow."



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Enlightening Wisdom

DEPARTMENT OF BIOSCIENCES
AIMSR, Indore (M.P.)

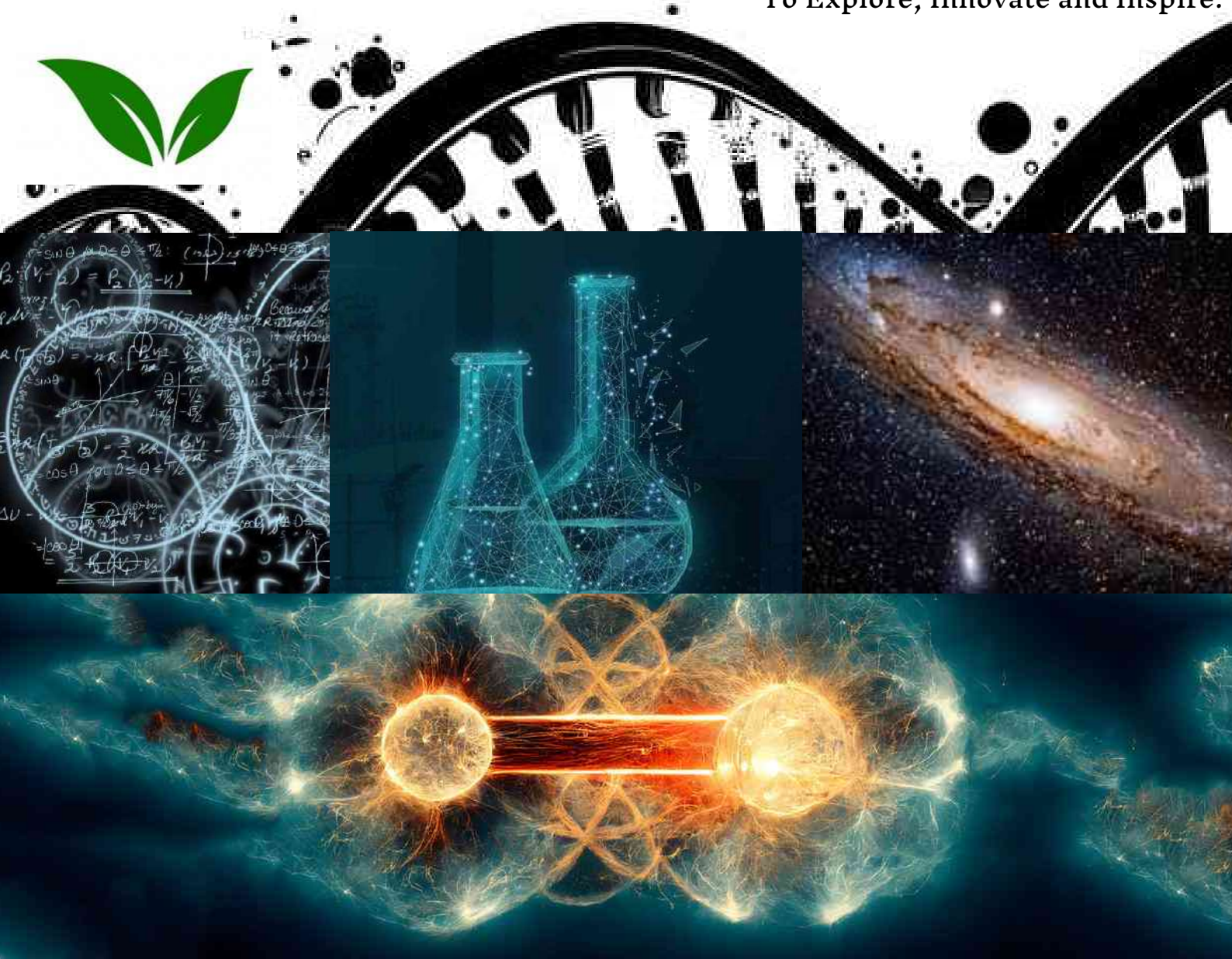


राज्ञ्यानाल

2023-24

THE SCIENCE MAGAZINE

To Explore, Innovate and Inspire.



Laboratories



Biotechnology Lab



Microbiology Lab



Chemistry Lab

Awards (Faculty And Students)



E-YUVA BIRAC TEAM



Award (Acronion)



Team Acronion
(Grand Onion Challenge)

Internships



Food Processing



Vertical Gardening



Vermicomposting

Dept. Of Biosciences

Industrial Visits



Anik Industries, Indore



AMSAR Pvt. Ltd., Indore



Dabur Foods, Indore

Vocational Visits



Plant Tissue Culture
Lab



Kokilaben Dhirubhai
Ambani Hospital, Indore



Primary Health Centre,
Dakachya

Educational Visits



IIT Indore



IP Yatra, Indore



IISER Bhopal



Workshops & Certifications



R Programming



Mushroom Cultivation



Biofertilizer



Python Programming

Guest Lectures



Nutrition Day



Oncology



Nutrition and Dietetics

Dept. Of Biosciences

Udbhav (Annual Fest AIMSAR)



Extra-curricular Activities



NSS Activity



Plantation Drive



Yoga



Millet Recipe Competition



Team Building



Scientific Sketching



Intra-College Theme Competition





Message from the Principal

**Prof. (Dr.) Ashok Jhawar
Principal, AIMS R.**

Dear Readers,

In all my years of work in the field of education, I have seen and met many faculty members and thousands of students. Every time, I have been amazed by the way they all approach a situation and the uniqueness of their solutions. It is this uniqueness that has brought together the first science magazine 'Vigyanam' by Dept. of Biosciences. I am truly impressed by the dedicated efforts of the department's Magazine Committee and Editorial Board, comprised of devoted teachers and students, in bringing this publication to life. Congratulations to everyone involved in creating the magazine. I am confident that all those involved with this magazine have put their efforts in a way that it will spark the reader's curiosity on the scientific progress happening all around us. I wish you all the best and let us endeavour to reach greater and more noteworthy achievements in the years ahead.

Warm Regards.



Message from the Head

Prof. (Dr.) Pranoti Belapurkar
Head, Department of Biosciences,
AIMSR.

Dear Readers,

It gives me immense pleasure to address you through the first volume of our departmental science magazine- 'Vigyanam'. As the Head of the Department, I have been delighted to witness the passion and dedication which the team has shown in the publication of this magazine.

Our college science magazine serves as a platform for showcasing the innovative research, and intellectual contributions of our students and faculty members. It reflects the spirit of inquiry, exploration, and discovery that defines our department. Remember, the journey of science is not just about acquiring knowledge but also about fostering a spirit of curiosity, critical thinking, and innovation. Let us continue to explore the frontiers of science together and make meaningful contributions to society.

I extend my best wishes to all of you for your future endeavours and let us celebrate your successes in the pages of our college science magazine.

I commend our faculty and all members of the editorial, technical, and organizing teams, as well as the students of the Department of Biosciences, for bringing this edition of the magazine to fruition. Best of luck to all!

Warm regards.



Message from the Editor

Dr. Pragya Goyal
Asst. Prof., Department of Biosciences,
AIMSR.

Dear Readers,

As the senior editor of our college science magazine, it is my pleasure to welcome you to the first volume of our departmental science magazine- 'Vigyanam' filled with insightful articles, captivating research, and thought-provoking perspectives.

Our magazine serves as a platform for showcasing the intellectual prowess and academic excellence of our students and faculty members. Each article and each creative piece reflects the passion and dedication that our contributors bring to the field of science.

I would like to express my gratitude to all the contributors who have poured their time, effort, and expertise into making this magazine a reflection of our collective pursuit of knowledge and discovery. Your contributions not only enrich our magazine but also inspire and empower our readers to delve deeper into the realms of science.

As the senior editor, I am committed to upholding the highest standards of quality and integrity in our publication. I encourage all our readers to actively engage with the content, share their feedback, and contribute their own ideas and insights to future volumes.

Together, let us continue to foster a culture of curiosity, exploration, and innovation within our scientific community. May this magazine serve as a catalyst for intellectual growth, collaboration, and positive change in the world around us.

Thank you for your continued support and enthusiasm. I hope you enjoy reading this edition as much as we have enjoyed bringing it to you.

Warm regards,

Senior Editor.

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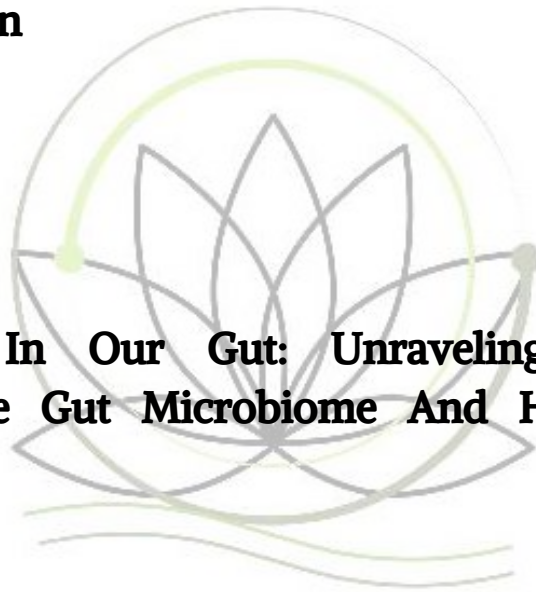


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Understanding The Dynamics Of Inflammation

-Dr. Pranoti Belapurkar, Professor & Head of the Department



What is an inflammatory response?

When some disease causing foreign agent such as virus, bacteria or even a toxin or a chemical enters our body and in conditions when we sustain an injury, our immune system generates a response to contain the foreign agent and initiates the process of healing. This is an inflammatory response. The major symptoms of inflammation are redness, swelling, heat and pain followed by the loss of function. Inflammation affects all parts of our body visible as well as invisible.

It is of two types-

1. Acute inflammation: This we are more familiar with, like after a cut or an injury the inflammatory cells reach the site and initiate healing process. It may last from few hours to few days as per the condition.

2. Chronic inflammation: It occurs when our body continues to send the inflammatory signals even when there is no foreign invasion. This can lead to severe damage to the affected organ. For e.g. Rheumatoid arthritis where the inflammatory cells attack the joint tissue causing pain and damage to joints. It's a long lasting phenomenon lasting for months together.

Chronic inflammation can be involved in progression of several conditions including Certain cancers, autoimmune diseases, type 2 diabetes, CVD, gastrointestinal diseases, lung diseases, mental health conditions and neurodegenerative disorders.

Causes for chronic inflammation are-

- a. Autoimmune disorders such as Lupus
- b. Exposure to toxins such as industrial or pollutant chemicals
- c. Untreated acute inflammation such as an injury or infection
- d. Autoinflammatory disorders
- e. Repeated episodes of acute inflammation

Contributing lifestyle factors are-

- a. Excess of alcohol consumption
- b. Smoking
- c. Obesity
- d. Too much of exercise



- e. Inactive or sedentary lifestyle
- f. Chronic stress

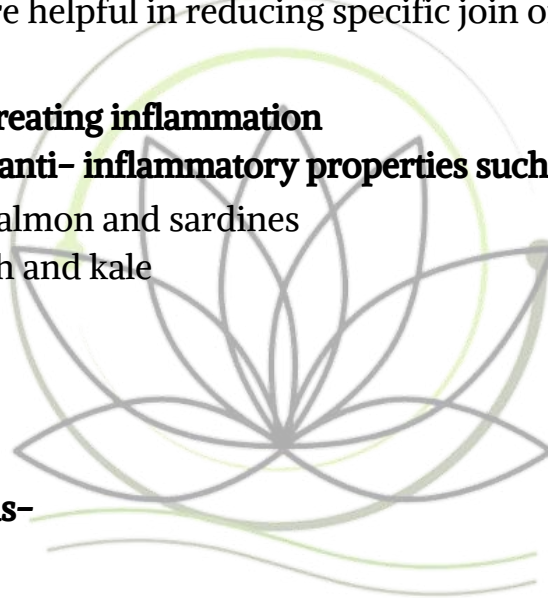
Mitigation and treatment-

- a. Acute inflammatory response usually subsides with rest, cold fomentation and good wound care.
- b. Chronic inflammatory response requires following-
 - Vitamin supplements like Vit A, C, D
 - Mineral supplements like Zn may help in healing and repair.
 - If not supplements then spices such as turmeric, ginger, garlic can be used for anti-inflammatory effect.
 - NSAIDs i.e., non-steroidal anti-inflammatory drugs such as ibuprofen, aspirin or naproxen can be recommended by doctors.
 - Corticosteroid shots are helpful in reducing specific joint or muscular inflammation.

House hold remedies for treating inflammation

Many food products have anti- inflammatory properties such as-

- a. Oily fish e.g. mackerel, salmon and sardines
- b. Leafy greens like spinach and kale
- c. Olive oil
- d. Whole grains
- e. Nuts



Must avoid following foods-

- a. Processed junk foods
- b. Deep fried foods
- c. Use of refined oils and trans fats
- d. Refined flour, sugar and their products

Prevention of inflammation-

- a. Being physically active
- b. Maintaining healthy weight
- c. Quit smoking
- d. Limit alcohol intake
- e. Stress management



Targeted Drug Delivery Systems: Advancing Medicinal Chemistry For Enhanced Therapeutic Efficacy

-Mrs. Rati Trivedi Nair, Asst. Professor



In the realm of medicinal chemistry, the development of targeted drug delivery systems has emerged as a pivotal area of research aimed at improving the efficacy and safety of pharmaceutical interventions. Traditional drug delivery approaches often suffer from limitations such as nonspecific distribution, off-target effects, and poor bioavailability, leading to suboptimal therapeutic outcomes and increased risk of adverse reactions. Targeted drug delivery systems seek to overcome these challenges by precisely delivering therapeutics to the site of action, thereby maximizing efficacy while minimizing side effects.

Nanotechnology has played a crucial role in the advancement of targeted drug delivery systems. Nanoparticles, liposomes, and polymer-based carriers offer unique advantages such as tunable size, surface modification capabilities, and the ability to encapsulate a variety of therapeutic agents. By functionalizing these nanocarriers with ligands or antibodies that selectively bind to receptors over expressed on diseased cells, researchers can achieve site-specific drug delivery, thereby reducing systemic toxicity and improving therapeutic outcomes.

In addition to improving the delivery of small-molecule drugs, targeted drug delivery systems are also being explored for the delivery of biologics such as peptides, proteins, and nucleic acids. Challenges such as poor stability, rapid degradation, and immunogenicity hinder the clinical translation of these therapeutics. However, nanocarriers offer a promising solution by protecting biologics from enzymatic degradation, facilitating cellular uptake, and enabling controlled release at the desired site of action.

The targeted drug delivery systems represent a paradigm shift in medicinal chemistry, offering the potential to transform the way we diagnose and treat diseases. By harnessing the principles of nanotechnology, stimuli responsiveness, and molecular targeting, researchers are poised to overcome longstanding challenges in drug delivery and unlock new opportunities for personalized and precision medicine. As advancements in this field continue to accelerate, the future holds great promise for targeted therapies that improve patient outcomes and enhance the efficacy of pharmaceutical interventions.

Nutraceuticals: Supporting Optimal Health



-Mrs. Pushpanjali Sharma, Asst. Professor

The word "nutraceutical," which comes from the combination of nutrition and medication, refers to bioactive combinations that are present in certain food sources or supplements and provide benefits beyond basic nutrition. They have a big role in improving overall health and modifying nutrition, particularly for those with health issues. Dietary problems encompass a wide range of illnesses, such as deficiencies, disorders of malabsorption, obesity, and metabolic abnormalities. In these situations, incorporating nutraceuticals into the meal plan can help support optimal health and address specific supplement needs.

Nutraceuticals contribute to reducing inflammation and oxidative stress, which are often linked to dietary issues. Oxidative stress is the result of an imbalance between the production of reactive oxygen species (ROS) and the ability of the body to detoxify them. This imbalance can cause damage to cells and exacerbate chronic disorders. Rich in antioxidants, vitamins C and E, polyphenols, and carotenoids are examples of nutraceuticals that can kill free radicals and reduce oxidative stress, which lower the risk of disease progression. Furthermore, maintaining well-being is closely linked to psychological well-being. Health concerns, including deficiencies in folate, B6 and B12, and omega-3 unsaturated fats, have been linked to mental health issues, state-of-mind disorders, and mental deterioration. Fish oil, curcumin, and nutrient buildings are examples of nutraceuticals that support mental health and promote optimistic moods. These nutraceuticals can contribute to overall health and mental clarity by supplying basic mixes to neurological function and tending to supplement irregular qualities. It is important to remember that even though nutraceuticals may have benefits, their use should be integrated into a comprehensive treatment plan and monitored by medical professionals. Nutraceuticals shouldn't replace a healthy diet or medications prescribed for specific conditions. Instead, they serve as a vital adjunct to traditional therapies, helping individuals achieve optimal nutrition and general health.

Through the incorporation of these bioactive combinations into daily diets, individuals can effectively address specific supplement needs, manage side effects, and achieve improvements in overall well-being. Hence, in order to ensure their safe and successful integration, it is crucial to move toward the use of nutraceuticals as a component of an all-encompassing treatment plan, in consultation with medical services specialists.

Role Of Biotechnology In Cancer Diagnosis.

–Meenu Bhaskar, B.Sc. Microbiology (3rd Year)

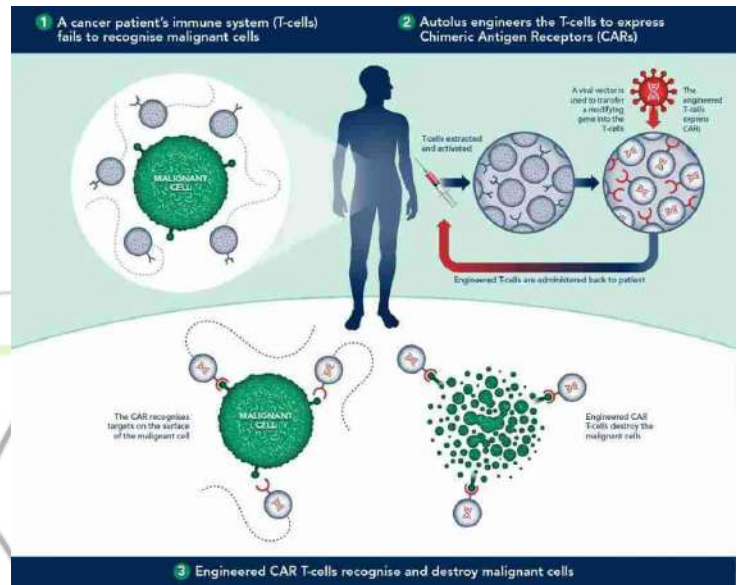


Biotechnology plays a crucial role in cancer diagnosis by offering advanced techniques for detection and characterization of cancer cells. This includes molecular tools like PCR and DNA sequencing, enabling precise identification of genetic abnormalities associated

with cancer. Additionally, it contributes to the development of biomarkers and imaging technologies facilitating early detection and personalized treatment strategies.

In recent years, cancer immunotherapy has emerged as an effective therapeutic option for a variety of cancer types. However, immunosuppressive circuits prevent the efficiency of these therapeutic inventions and only few patients show long-term clinical benefits. To improve

cancer therapy, the scientists are exploiting innovative cell-engineering strategies that aim at breaking immune tolerance and unleashing immune responses against cancer cells. There are more such techniques such as gene mapping, *in situ* hybridization (ISH), microarray analysis and cell culture. These methods are useful in identifying genes related to the incidence and progression of cancer.



Biotechnology has evolved with cutting-edge technologies like artificial intelligence and machine learning which is expected to further refine cancer diagnosis. This will enable even earlier detection, more accurate prognosis, and the development of even more personalized treatment strategies.

Overall, biotechnology has transformed cancer diagnosis, offering hope for a future where this devastating disease can be effectively managed and even prevented.

How To Make Bulletproof Tires?



- Pranjali Sharma, B.Sc. Microbiology (3rd Year)

It is really hard to make tires for outer space travel! Do you know why? Tires that are used in everyday life are hollow, inflated using pressurized air, which gives them structure and traction. These tires on a planet with a relatively thin or non-existent atmosphere, it would

just explode and as a general rule of thumb, you want to avoid explosions in space.

These tires are made of rubber as well which is known to become brittle once it faces extreme environmental conditions which are very likely to be found in space. Conclusion, using normal tires in space is a big no-no. Using tires made of metals is also challenging as it is expensive to launch things into space, so everything that is sent there should be as light as possible and to do that, metal wheels are made 0.7 mm (thinner than a credit card), impacting its durability.

When pressure is applied to an object, it is called stress. What happens due to this force is that its spacing changes a little bit between its atoms and the material deforms. For example, if you pull on an object, it would get slightly longer, and the per unit change is called strain. For most materials, this strain is directly proportional to the stress applied to it.

If a material is elastic, when you remove the stress, the atoms go back into its original place. If the stress applied is high enough, the bonds between the atoms break and it leads to defects called **edge dislocations** leading to the atoms rearranging themselves and hence the deformation is irreversible and called **plastic deformation**. If enough stress is applied, it can lead to complete fracture of the material.

Normal metals can only withstand a strain of 0.3-0.8% elastically. More than that, it leads to plastic deformation, which is a significant limitation to using metal wheels.

What we need from a material is for it to be as strong and durable as steel but also be able to endure much more strain without deforming permanently. Which is exactly what **Nitinol** is.

Nitinol is an alloy of Nickel and Titanium. This alloy is able to undergo a phase change in its solid state. In heated nitinol, the atoms are arranged in a cubic lattice arrangement, this phase is called **Austenite**. Upon cooling, the atoms ease into a form called **Twinned Martensite** (messier and lower symmetry arrangement of the atoms). In this phase you can apply stress to this material and deform it. But unlike normal metals, this does not cause





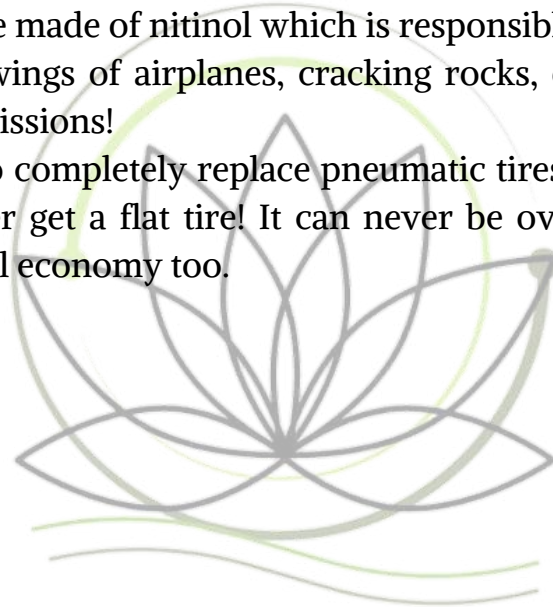
permanent deformations but the crystal structure changes to **Detwinned Martensite**. Now, when you heat it back up, the material goes back to being Austenite. So, the material returns to its original shape. Hence, Nitinol is considered a shape memory alloy.

What is even crazier that even without using differing temperatures, but by just applying stress to austenite, it is able to transition to detwinned martensite (exothermic), which allows nitinol to endure up to 8% stress and it still snaps back to its original position as austenite (endothermic).

Hence recently, the wheels are being made by weaving nitinol springs into a mesh and then made into wheel-like shape.

That is not the only application of nitinol. It has many applications in medical science. Catheters are being made of nitinol and braces that everyone has a love hate relationship with, they also have a wire made of nitinol which is responsible for rearranging the teeth. Nitinol is being used in wings of airplanes, cracking rocks, dental care, heart surgeries and even in outer space missions!

The next step would be to completely replace pneumatic tires with nitinol ones. Imagine getting vehicles that never get a flat tire! It can never be over or under inflated which significantly improves fuel economy too.



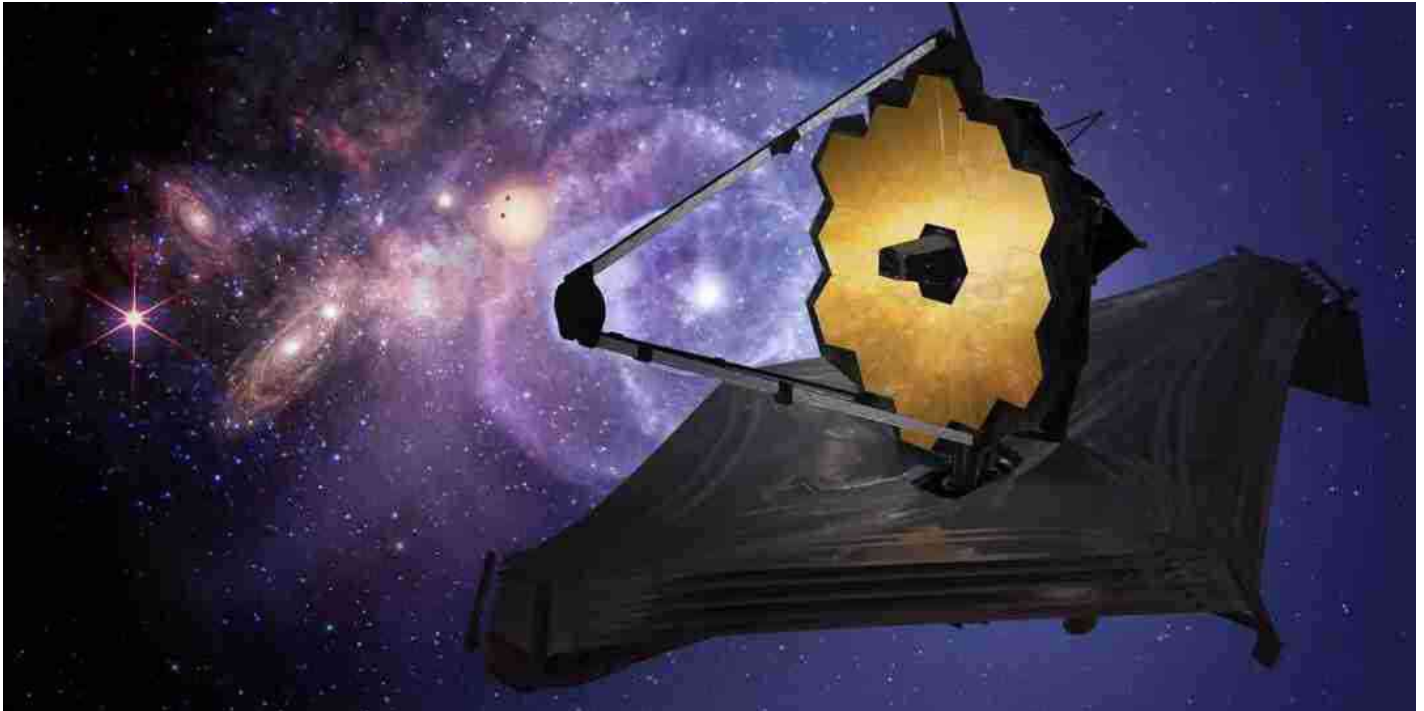


Space Exploration

-Rupali Agnihotri, B.Sc. Biotechnology (1st Year)



Space exploration has advanced rapidly in the last few decades, bringing to light groundbreaking discoveries and expanding our knowledge about the cosmos, mainly due to innovations of large space based telescopes like the James Webb Telescope, Hubble space Telescope etc.



The James Webb Telescope has unveiled galaxies over 13 billion years old, shedding light on the early universe, giving us a glimpse of the origin of Cosmos itself.

Some of the major achievements of The James Webb Space Telescope are:

- The JWST has managed to capture one the oldest galaxies ever observed. As old as 13 billion years
- It has managed to capture one the most distant galaxies as far as 13 billion light years away
- It has given us a detailed view of the composition of many early stars and galaxies.
- It has also managed to perform atmospheric analysis and water detection of exoplanets. Water vapour has been detected on distant planets, suggesting the potential for extraterrestrial life.
- It has given evidence of potential habitability on distant planets.
- Following are some of the major discoveries about our solar system made in the last decade -
- Evidence of geological activity on Pluto and Enceladus (a moon of Saturn) might



harbour an underground ocean, both offering clues to potential life.

- Possible implications for environments supporting life
- Upcoming missions to explore Jupiter's moon Europa and Saturn's moon Titan as the prime targets in the search for extraterrestrial life

Upcoming Areas for Space Exploration and Discovery

1. Better understanding exoplanets and identifying potentially habitable worlds
 2. Continuing to push observational capabilities deeper into space and further back in time with new instruments and telescopes
- With the ongoing advancements and promising missions, such as exploring Europa's oceans, we're entering a thrilling phase of space exploration, poised to unravel more mysteries of the universe.





Bioprinting Organs: A Look Into The Future of Transplantation

-Tanvee Trivedi, B.Sc. Microbiology (3rd Year)



Bioprinting, a cutting-edge technology in medical research, involves creating three-dimensional structures using living cells. Scientists are making remarkable decisive steps in bioprinting organs for transplantation. In simple terms, this process copies the natural formation of tissues or organs.

Many people suffer from diseases that require organ transplants and many complications arise due to the complexity of this type of surgery. The patient and the donor need to be medically compatible, they need to be on top of the list of potential other organ recipients and if they manage to get the surgery, they are put on immunosuppressants for their entire life, leaving them more prone to get diseases. Three-dimensional (3D) printing, also known as rapid prototyping or additive manufacturing, can revolutionarily solve these problems.

Picture building a puzzle with tiny living pieces. Researchers utilize bio-inks, a mixture of cells and supporting materials, to create complex organ structures layer by layer. These bio-inks, often derived from a patient's own cells, reduce the risk of rejection post-transplant and significantly enhance transplant success rates. They've printed parts of livers, kidneys, and hearts in labs. It's not ready for hospitals yet because they need to figure out how to add blood vessels for these organs to work well. But, this could mean a future where doctors print organs whenever someone needs a new one. It's like a medical superhero power, bringing hope to those waiting for life-saving transplants.

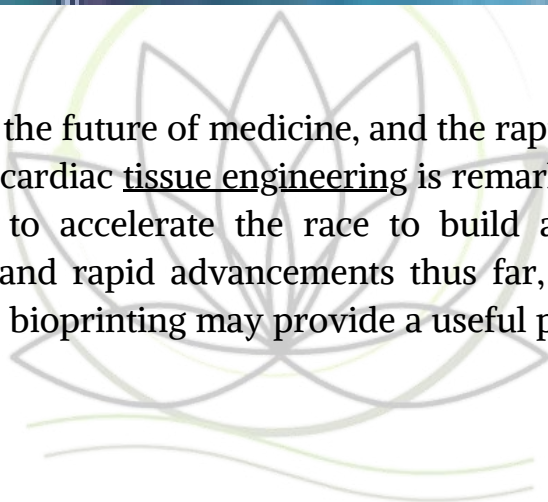
3D bioprinting has already been used for the generation and transplantation of several tissues, including multilayered skin, bone, vascular grafts, heart tissue and cartilaginous structures. Other applications include developing high-throughput 3D-bioprinted tissue models for research, drug discovery and toxicology.

The goal of 3D bioprinting is to reproduce a functioning tissue or organ with its natural microenvironment and architecture that can mimic the original organ and eventually can be used to replace or assist the organ. The 3D bioprinting process can be achieved by three different printer modalities based on the current technologies, known as micro-extrusion bioprinting, inkjet bioprinting, or laser bioprinting. Within organ engineering, there have been a lot of advances in the last decade, among them is three-dimensional bioprinting.



Conclusion

3D bioprinting will change the future of medicine, and the rapid pace of advancement in 3D bioprinting techniques for cardiac tissue engineering is remarkable. This interest in the field is exciting and will help to accelerate the race to build an organ. With the support, technological capabilities, and rapid advancements thus far, 3D bioprinting of a heart is closer than ever before. 3D bioprinting may provide a useful platform technology for tissue assembly.





Plant Biotechnology in Fighting Cancer



-Kriti Yadav, B.Sc. Biotechnology (2nd Year)

Researchers from the prestigious Indian Institutes of Technology (IIT) Madras and Mandi have achieved a significant milestone in the field of biotechnology. They have metabolically engineered plant cells to increase production of anti-cancer drug camptothecin (CPT).



The researchers from the Plant Cell Technology Lab of IIT plant Madras have evolved a genome-scale metabolic model for *N. nimmoniana* plant cells using computational tools which can be a great increment to produce cancer-treating drugs which are endangered plant-based. A research paper published in 2021 stated that IIT madras researchers have identified a microorganism as a maintainable and fertile alternative source for the plant-based anti-cancer drug CPT. On Unfolding the technical side of this research, first author of the research paper Ms. Sarayu Murali, PhD student, IIT Madras, said, “The metabolic model was reconstructed and curated using in house experimental data. Computational tools were then used to identify and rank suitable enzyme targets for overexpression and downregulation to maximize camptothecin production in *N. nimmoniana* plant cells. We experimentally validated the overexpression of an enzyme predicted by the model, which led to the development of a 5-fold high camptothecin-yielding cell line of *N. nimmoniana* in comparison to the untransformed plant cell line.”

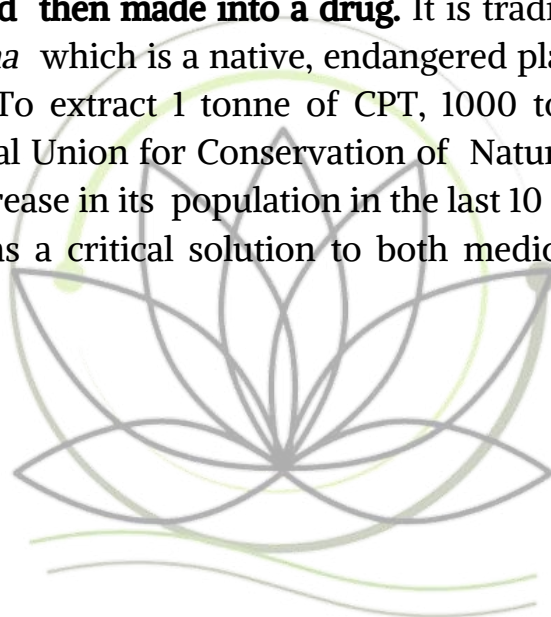
About underlining the significance of this research, the Principal investigator of the project Prof. Smita Srivastava, Bhupat and Jyoti Mehta School of Biosciences, Department of Biotechnology, IIT Madras, said, “Integration of metabolic engineering with bioprocess engineering principles can ensure enhanced and sustainable production of Camptothecin, to



continuously meet its increasing market demand in minimum time and cost in addition to natural resource conservation.”

The Co-investigator of the study Prof. Karthik Raman, Bhupat and Jyoti Mehta School of Biosciences, Department of Biotechnology, IIT Madras, added, “This platform technology for model-based rational metabolic engineering of plant cells can be adapted to enhance the production of many other high-value phytochemicals as well. This study can pave the way for effective and efficient commercial production of camptothecin and other medicinally important monoterpene indole alkaloids, with reduced dependence on nature.”

CPT is a lead molecule based on which drugs for chemotherapy are produced. It is produced from nature and then made into a drug. It is traditionally extracted from the *Nathapodytes nimmoniana* which is a native, endangered plant used for the production of allopathic medicine. To extract 1 tonne of CPT, 1000 tonnes of plant material is required. The International Union for Conservation of Nature (IUCN) has red listed this species, stating a 20% decrease in its population in the last 10 years. This development by IIT Researchers comes as a critical solution to both medicinal production as well as plant conversation.



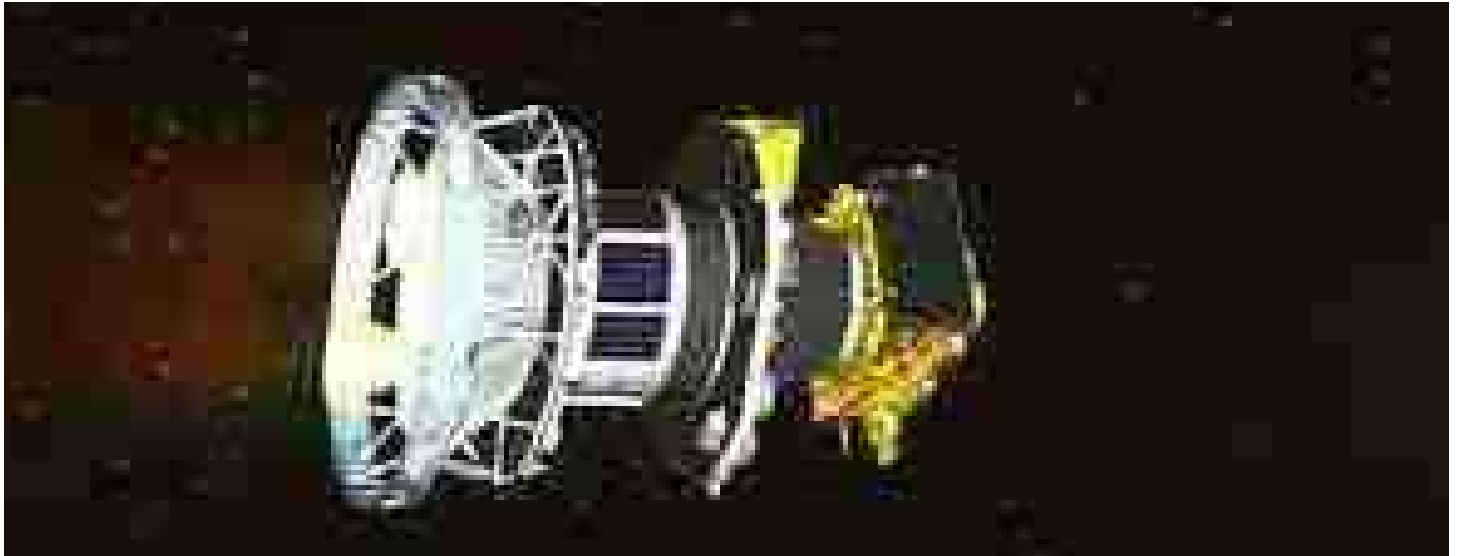


ISRO's XPoSat: India's First X-Ray Satellite



-Varnita Dubey, B.Sc. Biotechnology (1st Year)

On the very first day of the year 2024, the Indian Space Research Organization created history. On 1st January, 2024, ISRO launched the world's second and country's first such satellite, which will study pulsars, black holes, galaxies and radiation etc. its name is **X-ray Polari-**



-meter Satellite (XPoSat). Along with this, 10 other payloads have also been launched.

This mission was started by ISRO in 2017 and PSLV-C58 was launched on 1st January 2024 at 9:10 am. This launch is the 60th launch of the PSLV rocket series.

India became the second country after America to have an observatory to study black holes.

What is the purpose behind sending XPoSat?

The aim of XPoSat is to study the 50 brightest sources of the universe. Using X-ray photons and their polarization, XPoSat will help study radiation coming from near black holes and neutron stars.

It has two payloads named **POLIX** (Polarimeter Instrument in X-rays) and **XSPECT** (X-ray Spectroscopy and Timing).

The satellite will measure the polarization of X-rays in the energy band 8-30keV emanating from approximately 50 possible cosmic sources via Thomson scattering by the POLIX payload. It will conduct long-term spectral and temporal studies of cosmic X-ray sources. It will also make polarization and spectroscopic measurements of X-ray emissions from cosmic sources via the POLIX and XSPECT payloads.

**How many years is the mission of XPoSat?**

This satellite was installed in a low earth orbit of 500–700 km. Where it will stay and collect data for 5 years.

Why is the XPoSat mission so special?

When stars run out of fuel and 'die', they collapse under their own gravity and leave behind black holes or neutron stars. Black holes have the highest gravitational force in the universe and neutron stars have the highest density.

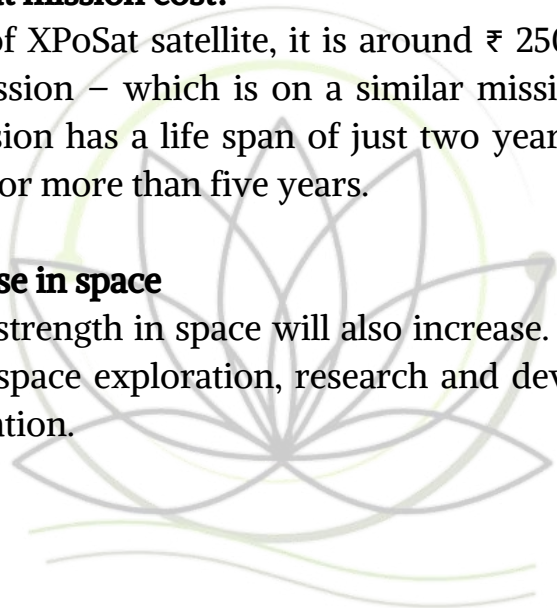
This mission will help in unraveling the mysteries of the complex environment in space by gathering more information about it.

How much does the XPoSat mission cost?

If we talk about the cost of XPoSat satellite, it is around ₹ 250 crore (about \$30 million). Whereas NASA's IXPE mission – which is on a similar mission from 2021 – spent \$188 million. NASA's IXPE mission has a life span of just two years, while the Indian satellite XPoSat is expected to last for more than five years.

India's strength will increase in space

After this mission, India's strength in space will also increase. This mission will provide a major platform to India's space exploration, research and development efforts. This will reveal a lot of new information.





Can AI Revolutionize Healthcare?

-Vedant Wagh, B.Sc. Microbiology (1st year)



Machine Learning and AI (Artificial Intelligence) in healthcare industry can provide data-driven support to the healthcare professionals. Using algorithms and data, these technologies can identify patterns of particularly infected patients and deliver automated insights that can help with common applications such as health monitoring, managing medical records, treatment design and design and even digital consultations.



In today's fast-paced world, technology is making remarkable milestones and one of its most promising frontiers is healthcare. With the advent of Artificial Intelligence (AI), the healthcare industry is undergoing a significant transformation. But can AI truly replace traditional healthcare practices? Let's understand the advantages and disadvantages of incorporating AI into the Healthcare Industry.

Advantages of AI in Healthcare:

1. Enhanced Diagnosis: AI-powered systems can analyse vast amounts of patient data in seconds, which gives a broad data to the AI so that it can analyse and give accurate results. This can significantly improve patients' outcomes and save lives.





2. Personalized Treatment Plans: AI algorithms can make treatment plans to individual patients based on their unique genetic makeup, medical history, and lifestyle habits. This personalised or customised approach can optimize the treatment and minimize side effects.



3. Predictive Analytics: AI can predict disease outbreaks, identify high-risk patients, and forecast patients' life expectancy, allowing healthcare providers to diagnose early and prevent adverse outcomes.



4. Efficiency and Cost Savings: By incorporating AI into the administrative tasks such as appointment scheduling and medical record management, healthcare professionals can get more time on patient care. This increased efficiency can reduce healthcare costs and lighten the load of workforce shortages.

Disadvantages of AI in Healthcare:

1. Data Privacy Concerns: AI systems rely on vast amounts of sensitive patient data, raising concerns about privacy breaches and unauthorized access to the public. Safeguarding patient confidentiality and identity, and ensuring data security are critical challenges.

2. Lack of Human Touch: While AI excels at processing data and performing repetitive tasks, it lacks the empathy and emotional intelligence of human healthcare providers. Patients may feel hostile or uncomfortable interacting with AI-driven systems.

3. Bias and Inaccuracy: AI algorithms are only as good as the data they are trained on. If the training data is biased or incomplete, AI systems may produce inaccurate or discriminatory results, leading to improper diagnosis.

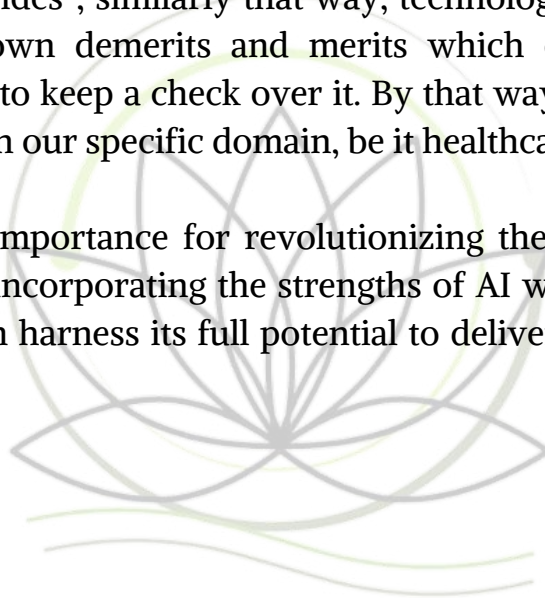


4. Dependency and Reliability: Relying too heavily on AI systems without proper human oversight could lead to failures and inaccuracy. Moreover, AI technologies may be susceptible to technical failures or cyber-attacks, compromising patient care.



As per what I feel, AI systems for any domain are the future of the coming generation and this itself is in a big opportunity to harness its' full potential to benefit for the humans. As per the Healthcare Industry is concerned, I feel AI is a very good tool to record patients' history and predict the diagnosis to the patient, but under any circumstances, it should be monitored and regulated under a registered medical healthcare professional only. We are humans and we believe in trust and that trustworthiness becomes a void in case of AI treating us. As we all know, "a coin has two sides", similarly that way, technology can be useful to us in many ways but it has got its own demerits and merits which can only be corrected if we incorporate a professional to keep a check over it. By that way, we can utilise the full blown and robust potential of AI in our specific domain, be it healthcare or any other critical field.

While AI holds immense importance for revolutionizing the healthcare industry, it is not without its challenges. By incorporating the strengths of AI while addressing its limitations, healthcare professional can harness its full potential to deliver more effective, efficient, and patient-centered care.





Exploring The Symbiotic Relationship Between Gynaecology And Microbiology: Unveiling The Intricate Connection

[-Vanita Panda, B.Sc. Microbiology_\(2nd Year\)](#)

The synergy between gynecology and microbiology is an intricate tapestry woven within the human body, unveiling a realm where microbial communities profoundly impact women's health. Over the years, scientific progress has unraveled the delicate equilibrium within the female reproductive system, showcasing a harmonious dance between the body and its resident microbes. Recent strides in microbiological research have thrust this connection into sharper focus, illuminating the pivotal role played by these microscopic inhabitants in shaping gynecological well-being.

This symbiotic relationship extends into the very fabric of gynecological health, where the vaginal microbiota serves as a sentinel, influencing a spectrum of conditions and outcomes. The exploration of this complex ecosystem has revealed the dominance of specific bacterial



strains, particularly lactobacilli, orchestrating a symphony of biochemical processes crucial for maintaining a healthy vaginal environment. Their presence ensures an acidic pH, produces antimicrobial compounds and acts as a bulwark against potential pathogens, underpinning the foundation of gynecological health.

Moreover, these revelations have unveiled the profound implications of microbial imbalance, known as dysbiosis, in various gynecological disorders. Conditions such as bacterial vaginosis, vulvovaginal candidiasis, and urinary tract infections stand as testaments to the impact of disrupted microbial harmony on women's health.



Microbiome of the Female Reproductive Tract-

The female reproductive tract stands as a thriving ecosystem hosting a rich consortium of microorganisms, collectively referred to as the vaginal microbiota. Advancements in sequencing technologies have unveiled the intricate tapestry of this microbial landscape, revealing a diverse and dynamic array of species populating the vaginal environment. Among these, certain strains of *Lactobacillus*, notably *Lactobacillus crispatus*, *Lactobacillus iners*, *Lactobacillus jensenii*, and *Lactobacillus gasseri*, reign as prominent inhabitants within a healthy vaginal microbiome.

The dominance of these lactobacilli is pivotal for sustaining an optimal vaginal *milieu*. They actively contribute to maintaining an acidic pH, creating an environment inhospitable to potential pathogens. Additionally, these beneficial bacteria showcase their prowess by producing various antimicrobial compounds, acting as natural defenders against the overgrowth of harmful microbes. Their multifaceted role goes beyond mere presence; they intricately balance the microbial community, fostering an environment conducive to gynecological well-being. Their collective efforts serve as guardians, fortifying the vaginal ecosystem against potential disruptions and ensuring the preservation of a harmonious microbial equilibrium essential for women's reproductive health.

Impact on Gynaecological Health-

The equilibrium within the vaginal microbiota exerts a profound influence on various gynecological conditions, underscoring its pivotal role in women's reproductive health. Dysbiosis, a disturbance in this delicate microbial balance, holds implications for conditions such as bacterial vaginosis (BV), vulvovaginal candidiasis (VVC), and urinary tract infections (UTIs), altering the landscape of the vaginal environment. BV, typified by a decline in beneficial lactobacilli and an overgrowth of anaerobic bacteria like *Gardnerella vaginalis*, stands as a prime example. This imbalance not only triggers discomfort but is also linked to adverse outcomes, including preterm birth and heightened susceptibility to sexually transmitted infections due to compromised protective mechanisms.

Recent scientific exploration underscores the intricate relationship between the vaginal microbiota and reproductive health. Insights into this symbiotic interplay have illuminated connections to infertility, pregnancy complications, and obstetric outcomes. The elucidation of these associations has spurred innovative interventions like probiotics and targeted microbiome therapies. These interventions aim to recalibrate the vaginal microbiota, reinstating microbial equilibrium and fostering an environment conducive to gynecological well-being.



Such interventions hold promise in revolutionizing therapeutic approaches, accentuating the potential for precision medicine in addressing gynecological disorders at their microbial core.

Advancements and Future Directions-

Recent strides in scientific methodologies, including metagenomic sequencing, metabolomics, and culturomics, have propelled our understanding of the vaginal microbiome to unprecedented levels. Metagenomic sequencing techniques delve deep into the genetic makeup of microbial communities, unraveling their diversity and functionality within the intricate vaginal ecosystem. Metabolomics, on the other hand, scrutinizes the metabolic processes of these microbes, shedding light on the biochemical interplay crucial for maintaining a balanced vaginal environment. Culturomics, a novel culture-based approach, cultivates previously unculturable microbes, expanding our knowledge of the microbial repertoire inhabiting the female reproductive tract.

Moreover, ongoing research endeavors seek to decipher the influence of external factors on the composition of the vaginal microbiota. These factors encompass a spectrum ranging from dietary patterns and hormonal fluctuations to sexual practices and antibiotic usage. Understanding how these external influences modulate the delicate balance of the vaginal microbial community is instrumental in comprehending gynecological health intricacies.

Innovative strides in personalized medicine emphasize tailoring gynecological treatments based on an individual's unique microbial profile. Integrating microbiome-based diagnostics and therapies into gynecological practice marks a transformative shift towards precision medicine. This integration promises novel strategies to effectively manage gynecological disorders by addressing their root causes at the microbial level, potentially revolutionizing the landscape of women's healthcare.

Microfiltration



–Akshada Bhannare, B.Sc. Microbiology (1st Year)

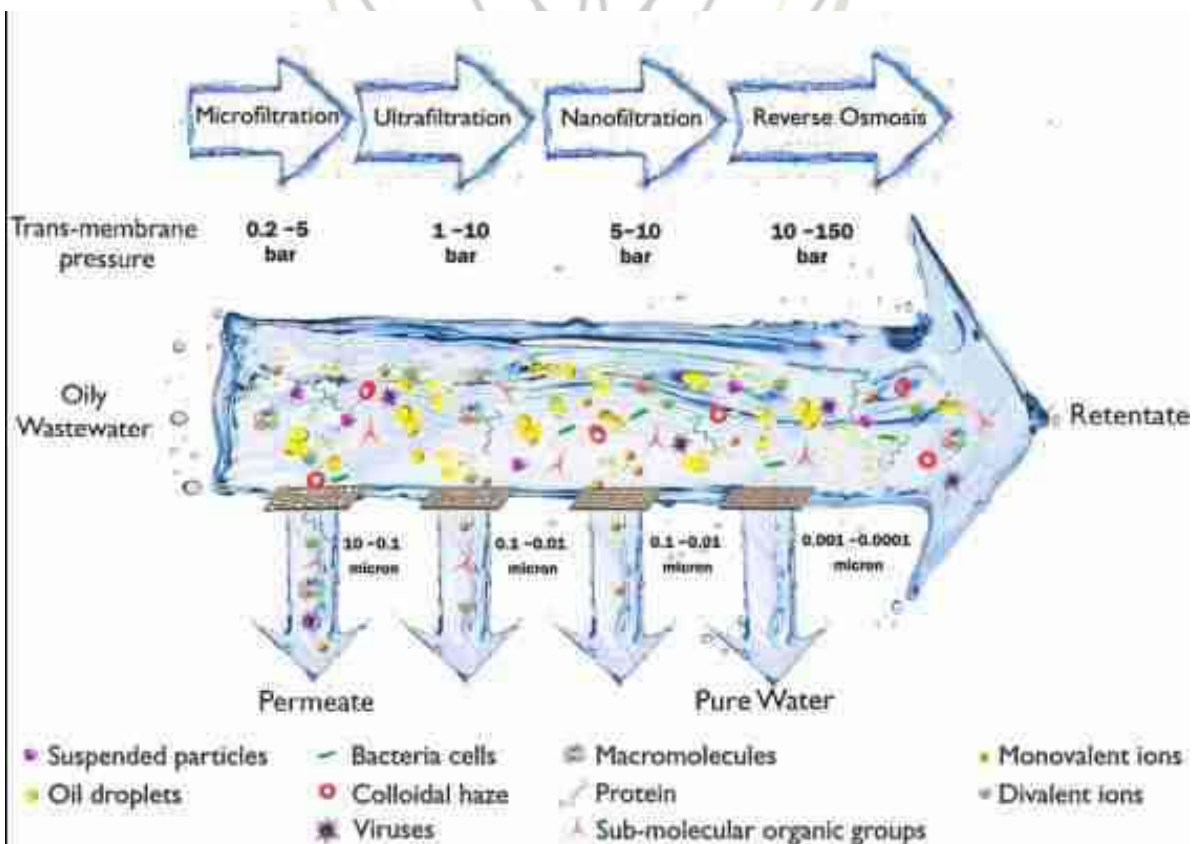


Microfiltration is a filtration process which is used in various industries for separating particles and contaminants from liquids. This method involves passing contaminated fluid through a porous material with microscopic openings that allow the passage of solvent while blocking particles above a certain size (use a pore size of 0.1 microns filters).

The effectiveness of microfiltration lies in its ability to provide a fine level of filtration without significantly affecting the properties of the liquid.

Microfiltration is widely used in water treatment. It is used to remove suspended particles, bacteria and other impurities from water sources by passing water through microfilters, these systems can ensure the delivery of clean and safe drinking water. This is particularly important in areas where waterborne diseases pose a threat to public health.

In the pharmaceutical industry, microfiltration is employed for the clarification of liquids, ensuring that pharmaceutical products are free from particulate matter. Microfiltration is also utilized in biotechnology for the separation and purification of biomolecules, such as proteins and enzymes.





In the food and beverage industry, microfiltration plays a key role in the production of various products, including fruit juices, beer and dairy products. By removing particles and microorganisms, microfiltration helps to extend the shelf life of products and enhance their quality. Microfiltration is not only limited to liquid – solid separation but also finds applications such as air filtration and pharmaceutical manufacturing. It is employed to remove particulate matter and contaminants from gaseous compounds. This contributes to the production of clean air and ensures the quality of processes in sensitive environments.

In summary, microfiltration is a versatile and indispensable technology with a wide range of applications in water treatment, pharmaceuticals, biotechnology and the food and beverage industry. As industries continue to prioritize efficiency and quality, the role of microfiltration in ensuring the purity, safety and quality of various products and processes.





Microbial Allies In Our Gut: Unraveling The Intricacies Of The Gut Microbiome And Human Nutrition

-Smrutisikha Satapathy, B.Sc. Microbiology_(2nd Year)

Introduction: Recent years have witnessed remarkable progress in our scientific toolkit, particularly with the advent of advanced DNA sequencing technologies. These cutting-edge tools have empowered scientists to embark on a comprehensive exploration of the intricate landscape of the gut microbiome. The application of these technologies has proven transformative, unraveling layers of complexity that were once elusive. Within this microbial tapestry, groundbreaking discoveries have come to light, emphasizing the symbiotic alliance between gut microbes and host nutrition. The ability to decode and analyze the genetic makeup of the microbiome has unveiled a previously hidden world of interactions, illuminating the dynamic processes that govern nutrient metabolism and absorption. This newfound understanding not only deepens our appreciation for the delicate balance within the gut ecosystem but also opens avenues for innovative approaches to health and nutrition, ushering in a new era of personalized well-being.

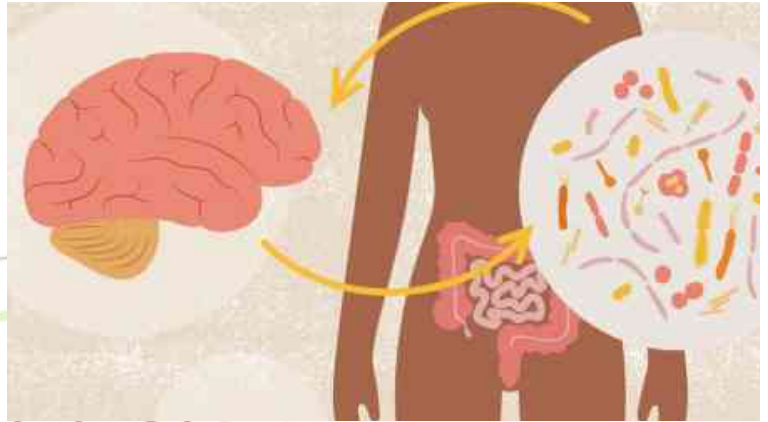
Microbiome and Nutrient Absorption: *In the intricate dance of digestion, the microbiome emerges as a key choreographer, orchestrating the absorption of nutrients with precision.* A noteworthy revelation underscores the microbiome's integral role in this process. Specific microbial species within the gut ecosystem actively contribute to nutrient absorption by executing crucial tasks such as breaking down complex carbohydrates, fermenting dietary fibers, and synthesizing essential vitamins. This orchestrated effort not only facilitates the extraction of vital elements from our diet but also holds sway over the efficiency and bioavailability of these nutrients. The symbiotic interplay between gut microbes and the nutritional components passing through the digestive tract illuminates a dynamic relationship that extends beyond conventional digestion. As we unravel the nuances of this microbial symphony, opportunities arise for targeted interventions, offering the potential to optimize nutrient absorption for enhanced well-being and a deeper understanding of the profound impact of the microbiome on human health.



Impact on Metabolism and Obesity-

The intricate interplay between the gut microbiome and metabolic processes has emerged as a critical nexus in our understanding of human health. Recent research has cast light on the profound impact of microbiome composition on metabolic functions, revealing that imbalances in microbial communities correlate with conditions such as obesity. This revelation not only underscores the microbiome's role beyond digestion but also positions it as a significant influencer of metabolic well-being.

The associations uncovered offer a roadmap for personalized nutrition strategies, presenting a paradigm where dietary interventions can be meticulously crafted to modulate the microbiome. By tailoring nutrition to individual microbial profiles, there exists the potential to address metabolic imbalances and enhance overall metabolic health.



This nuanced approach to dietary planning signifies a pivotal shift towards precision nutrition, harnessing the power of the microbiome to combat obesity and foster a healthier metabolic equilibrium.

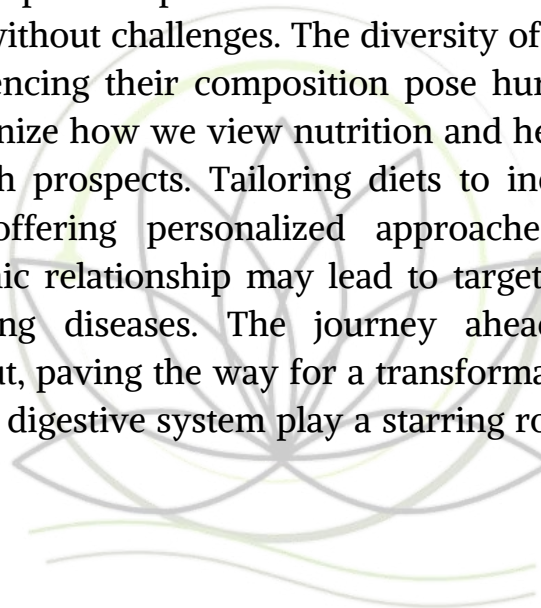
Microbiome and Immune System-

At the crossroads of gut health and immune resilience, the gut microbiome emerges as a pivotal orchestrator, wielding influence over the body's defense mechanisms. Recent studies illuminate the intricate relationship between the gut microbiome and the immune system, unveiling specific microbial strains as potent modulators of immune responses and inflammation. This newfound understanding positions the microbiome not merely as a digestive companion but as a crucial regulator of immune homeostasis. The identification of microbial strains with immune-enhancing properties paves the way for a transformative prospect – the development of targeted probiotics. These precision-designed probiotics hold promise in fortifying the immune system, offering a novel avenue to alleviate inflammatory conditions and potentially mitigate autoimmune disorders. As science progresses, the integration of microbiome-focused interventions into immune therapeutics represents a frontier of exploration, underscoring the potential for harnessing the gut microbiome to bolster immune resilience and foster overall health.



Role in Neurological Health: In a paradigm-shifting revelation, the gut-brain axis has become a focal point of scientific inquiry. Recent studies unveil a captivating link between the gut microbiome and neurological health, implicating its influence on conditions like anxiety and depression. This intriguing connection opens innovative pathways, suggesting that probiotics could serve as therapeutic agents for mental health disorders. The bidirectional communication between the gut and the brain signifies a novel approach to addressing mental well-being, where interventions targeting the microbiome may hold the key to unlocking new frontiers in the treatment and prevention of neurological conditions, offering hope for a holistic and integrated approach to mental health care.

In conclusion, the fusion of microbiology and nutrition has unveiled the incredible influence of the gut microbiome on human health. This newfound knowledge holds immense promise as we step into a personalized medicine era. However, navigating this microscopic realm is not without challenges. The diversity of individual microbiomes and the intricate factors influencing their composition pose hurdles. Yet, overcoming these challenges could revolutionize how we view nutrition and healthcare. Looking ahead, the future appears bright with prospects. Tailoring diets to individual microbiomes could become commonplace, offering personalized approaches to health. Advances in understanding this dynamic relationship may lead to targeted interventions, promoting well-being and preventing diseases. The journey ahead involves unraveling the complexities within our gut, paving the way for a transformative era in healthcare where the tiny inhabitants of our digestive system play a starring role in our path to a healthier, more personalized future.



Brain-Like Transistor Mimics Human Intelligence



[-Harshita Kushwah, B.Sc. Biotechnology \(1st Year\)](#)

Brain like-transistors are advanced electronic devices that emulate the intelligence of the human brain. These cutting-edge technologies revolutionize computing by enabling machines to learn, adapt and problem solve just like us.

Brain-like transistors, also known as neuromorphic transistors, are electronic components designed to mimic the structure and function of the human brain. These state of the art devices emulate the parallel processing capabilities, synaptic connections and learning abilities of neural networks. They replicate the behavior of biological neurons through complex circuits that can perform computations and process information. By leveraging the principles of neural networks, they enable machines to recognize patterns, learn from experience, and make intelligent decisions based on input data.

Brain-like transistors enable faster and more energy efficient computing, surpassing traditional von Neumann architecture. This breakthrough technology unlocks immense potential for applications that require real time processing and low power consumption. With their ability to learn and adapt, brain-like transistors empower machines to improve their performance based on evolving conditions.



This adaptability is particularly valuable in dynamic environments and complex tasks required in flexible decision-making. Brain-like transistors play a pivotal role in advancing AI and machine learning capabilities. They enable the development of intelligent systems that can understand, reason and make autonomous decisions, revolutionizing industries ranging from healthcare to finance.



Integrating them into robots enhances their cognitive abilities, enabling them to perceive their environment, learn from interactions and perform complex tasks autonomously. This breakthrough technology accelerates the progress of robotics in various sectors.



While brain-like transistors show immense promise, there are still technical hurdles to overcome. Researchers are actively addressing issues such as scalability, power consumption and durability to ensure the widespread adoption and optimization of this technology.

The development of brain-like transistors raise ethical considerations surrounding the implication of creating artificial intelligence that closely resembles human intelligence. Society must carefully negate the challenges related to privacy, decision making and the potential impact on the job market.

CRISPR Cas 9: Techniques And Applications



-Shashwati Suryavanshi, M.Sc. Biotechnology (1st Sem)

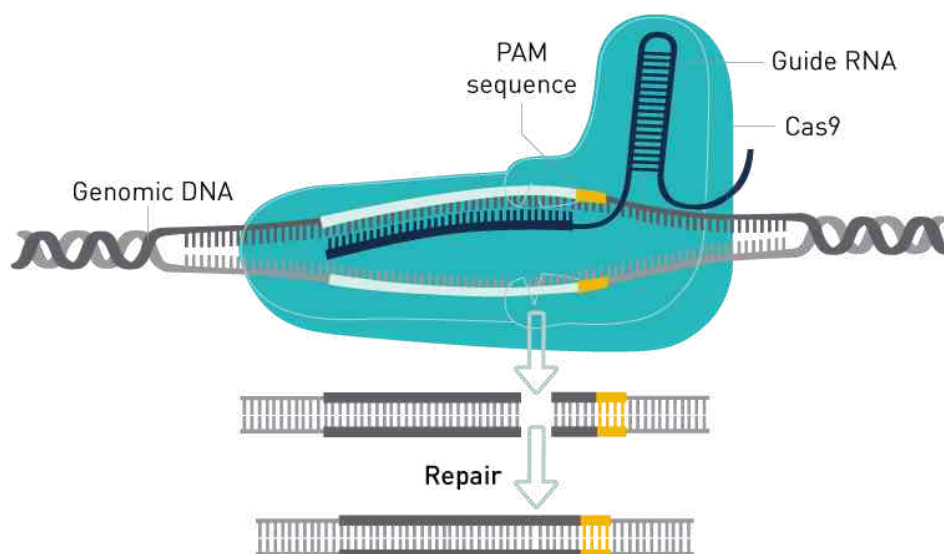
The Clustered Regularly Interspaced Short Palindromic Repeats-CRISPR Associated 9 or CRISPR Cas -9 is a Genomic editing process that processes information in living organisms

In 1987, a team of scientists of Osaka university, Japan noticed a strange pattern of DNA sequence in genes belonging to *E.coli* that live in the human gut. CRISPR Cas -9 is used for cancer treatment, breast cancer, lung cancer, agricultural and human disease as well as used in plant modifications.

CRISPR/Cas9 Technology

CRISPR-Cas9 is a genome editing technology that has revolutionized the field of molecular biology. It is based on the bacterial immune system, where the Cas9 protein is used to cleave foreign DNA sequences that enter the bacterial cell. The system has been adapted for the use in plants and other organisms, where it is used to introduce precise changes in the DNA sequence. The CRISPR-Cas9 system consists of two components: the Cas9 protein and a guide RNA (gRNA) The gRNA directs the Cas9 protein to the target DNA sequence, where it processes the DNA at a specific location. The cut is then repaired by the cell's DNA repair mechanism, which can lead to the insertion, deletion, or modification of DNA sequences.

The advantages of CRISPR-Cas9 technology are its **ease of use , specificity, and efficiency**. It is also relatively inexpensive and can be used in a wide range of organisms. However, there are some limitations of the technology, including off-target effects, which can result in unintended changes to the genome.





CRISPR–Cas9 Mechanism–

The CRISPR–Cas9 system works in several steps:

- 1. Adaptation:** Bacteria encounter foreign DNA (e.g., from viruses) and incorporate fragments of this DNA into their CRISPR region.
- 2. CRISPR RNA Production:** The CRISPR region is transcribed into CRISPR RNA (crRNA), which forms a complex with trans-activating CRISPR RNA (tracr RNA) to guide the Cas9 enzyme.
- 3. Targeting:** The CRISPR–Cas9 complex scans the cell's DNA to find a sequence that matches the guide RNA (crRNA–tracr RNA complex).
- 4. Editing:** Once the target DNA sequence is found, Cas9 cuts the DNA strand. This break can then be repaired through the cell's own repair mechanisms, which may introduce small mutations or allow researchers to insert or remove specific genetic material at the site of the cut.

Applications – Agriculture

The technology improves farming productivity, which has economic benefits for farmers and society. It also improves food security by ensuring crops are resistant to adverse conditions and are not struck down by disease. This leads to improved population health by genome editing which is an effective way to improve the nutritional value of crops. It renders crops safe for people with sensitivities or allergies. It can also be used to combat deficiencies, which is particularly important in vulnerable populations. CRISPR can make farming practices more environmentally friendly, which is crucial amid the increasingly urgent climate crisis

Brain cancer

Brain cancer is the most lethal among all cancers, regardless of gender and age. The therapies used against brain cancers such as gliomas have been more or less the same for the last five decades. There are also technical difficulties in the clinical management of brain cancer. For these reasons, researchers are trying to find solutions at the genetic level. In this context, CRISPR–Cas9 can be an efficient, convenient and less time-consuming technique. The Ptc1 gene responsible for medulloblastoma and the Trp53, Pten and Nfl genes accountable for glioblastoma can be knocked out in the mouse brain using the CRISPR–Cas9 technique. This technique can also be used in further investigations against other regulatory genes found to be responsible for brain tumors.

Climate Change



-Pranjal Khobragade, B.Sc. Pharmacemistry_(1st Year)

Climate change is the same word everywhere at the moment, it is being heard everywhere in TV broadcast documentaries. What is climate change? Is it global warming? Global warming and climate change are both spoken interchangeably, but they are different.

World climate change is a scientific phenomenon which is happening due to increase in carbon emissions by burning fossil fuels and deforestation by us humans, where an increase in carbon is causing global warming.

Example: Imagine that our Earth is a huge house where there are two different things happening in the house, one is climate change, and another is global warming. Global warming happens when the whole house gets hot, where the climate changes W when there is change in different rooms of the house, that means if it is raining in one room of the house, then the house will be hot in the second room and cold in the third room.

Climate change happens naturally but over a long period of time in different parts of the world, but now we can see climate change happening very fast. Scientists believe that its speed can become even faster because of the speed of global warming. See, a long time ago in 1750, during the Industrial Revolution, people used coal extensively, due to which carbon dioxide increased in the atmosphere. Then in 1950, after the World War, when people completely used cars and four wheelers. If done, carbon dioxide will also increase due to which the temperature of the globe will increase and the climate will change.

Our population has tripled. We are running large quantities of fossil fuels which are continuously emitting carbon dioxide. Due to carbon dioxide and methane gas, the temperature of the earth is increasing, which in simple words is called the greenhouse effect.



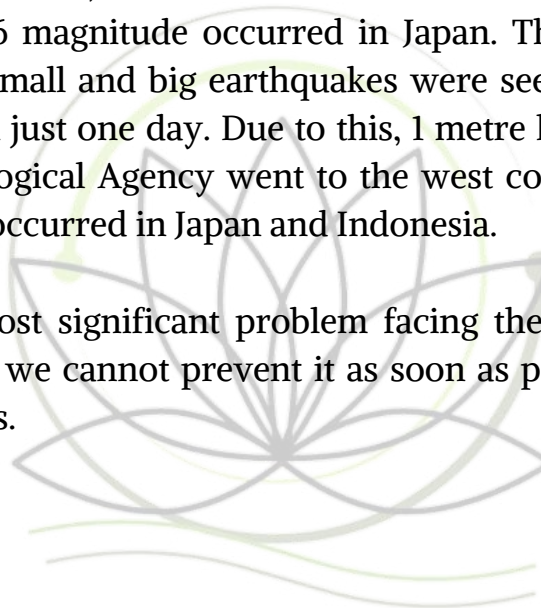


We also have to understand that the greenhouse effect also occurs naturally, where the temperature of carbon dioxide and greenhouse gases has increased the temperature of the globe by 1.1 degrees Celsius.

Because the earth is getting warmer. Due to which the glacial deposits in the North Pole and South Pole have also started melting. The melted ice is turning black due to which the ice has started melting faster. The sea level is three to four times higher than the water from the melted ice. Its effect has increased, we will see it in Indonesia and some other small islands. Apart from this, due to climate change, many natural disasters have also occurred such as earthquake, flood, cyclone, volcano eruption. Although all these used to happen earlier also, but now in more numbers.

Example : On January 1, 2024, where the whole world was celebrating New Year, a terrible earthquake of 7.6 magnitude occurred in Japan. This earthquake was not the only one, along with it, small and big earthquakes were seen after that. A total of 155+ earthquakes were seen in just one day. Due to this, 1 metre high waves started rising in the sea. Japan's Meteorological Agency went to the west coast of Japan and detected a huge tsunami. Tsunamis occurred in Japan and Indonesia.

Climate change is the most significant problem facing the world. Global warming is increasing day by day. If we cannot prevent it as soon as possible, our world will face undesirable consequences.



Know Your OHO!

(Own Hormonal Octet)



-Suhana Shaikh, M.Sc. Biotechnology (1st Sem)

I am sure that we all like music, dancing on beats and moving on rhythms and, interestingly, the octet performance which includes eight instruments with 8 artists to sync together!

Just like this, your body and its movements are synchronized with some special chemicals called **hormones**.

Basically, hormones are chemical messengers that are secreted directly into the blood, which carries them to organs and tissues of the body to exert their functions. Let's take a look at the major functioning hormones that influence your behavior.



1. Adrenaline– also called **Epinephrine** or famously as '**Stress**' or '**danger**' hormone, is both a hormone and a neurotransmitter. It is released by the adrenal gland. It prepares your body for "Flight or Fight reactions". It's released in response to stressful, exciting, dangerous, or threatening situations. It makes the heart beat faster, increases blood flow to the brain and muscles, and stimulates the body to make sugar for fuel. When adrenaline is released suddenly, it's often referred to as an adrenaline rush.

2. Insulin– We all are most aware of this hormone, it is made by the pancreas. This peptide hormone helps the body utilize sugar and also assists in breakdown of protein and fats. "**Insulin is essential for staying alive.**" To help patients with diabetes, the first genetically engineered, synthetic "human" insulin was produced in 1978 using *E. coli* bacteria. Eli Lilly went on in 1982 to sell the first commercially available biosynthetic human insulin under the brand name **Humulin**.

3. Dopamine– This is our star hormone. Dopamine is a chemical messenger that is naturally released from nerve cells in your brain – it acts on cells in different parts of your brain to produce a wide range of effects. Dopamine acts on areas of the brain to give you feelings of pleasure, satisfaction and motivation. Dopamine also has a role to play in controlling memory, mood, sleep, learning, concentration, movement and other body functions. *So next time you feel happy, cheers to dopamine!*



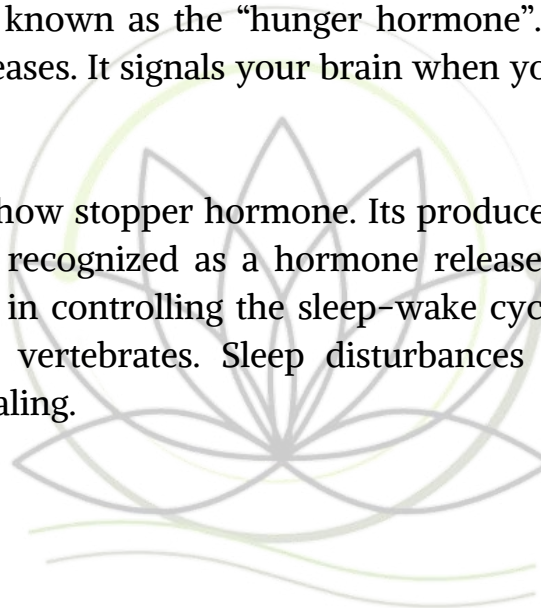
4. Serotonin– Serotonin is one of the body's chemicals that controls our mood. It works with melatonin to help control when we sleep and wake up, as well as how we feel pain. It's often called your body's natural “feel good” chemical. When serotonin is at normal levels, you feel more focused, emotionally stable, happier and calmer.

5. Cortisol– Think of cortisol as nature's built-in alarm system. It's your body's main stress hormone. It works with certain parts of your brain to control your mood, motivation, and fear. It is also released by adrenal gland.

6. Norepinephrine– This hormone increases alertness, arousal and attention. It has essential role in regulation of attention, and cognitive function.

7. Ghrelin– It is famously known as the “hunger hormone”. Ghrelin is a hormone your stomach produces and releases. It signals your brain when your stomach is empty and it's time to eat.

8. Melatonin–This is our show stopper hormone. Its produced by the pineal gland in our brain. This hormone was recognized as a hormone released within the brain at night, serving a pivotal function in controlling the sleep-wake cycle, commonly referred to as the circadian rhythm, in vertebrates. Sleep disturbances are a typical indication of inadequate melatonin signaling.



Black Holes: The Cosmic Enigmas!



–[Mustafa Newriwala, B.Sc. Biotechnology \(1st year\)](#)

"It is said that fact is sometimes stranger than fiction, and nowhere is that more true than in the case of Black Holes." – Dr. Stephen Hawking,



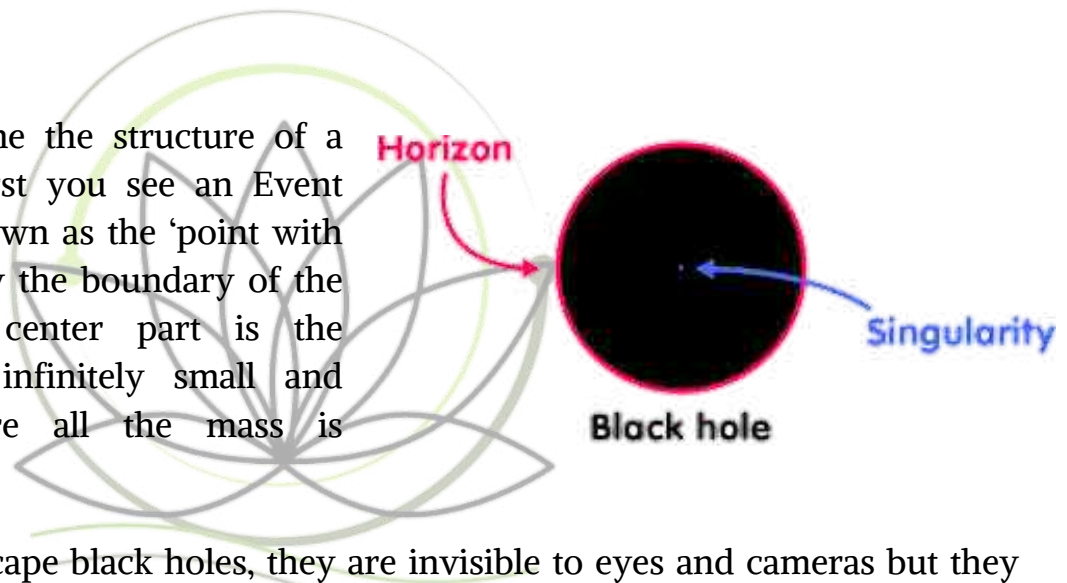
Black holes are enigmatic cosmic entities that have mystified scientists and science enthusiasts for decades. Now, what is a Black Hole? Simply speaking, something really–really massive was crushed into something

really–really small! Black Holes are formed when some really massive star (about 3x more massive than our sun) collapses under their own gravity.

A black hole is formed when a massive star collapses under its own gravity at the end of its life, squeezing its mass into an infinitely small and infinitely dense point called a **Singularity**, surrounded by an **Event Horizon** from which nothing, not even light, can escape.

The Structure

Now, when you imagine the structure of a black hole, basically first you see an Event Horizon that is also known as the 'point with no return'. It is basically the boundary of the black hole and the center part is the 'singularity', A point, infinitely small and infinitely dense, where all the mass is concentrated.



Now, as light doesn't escape black holes, they are invisible to eyes and cameras but they can be detected by their effect on the surroundings. If you see many stars and asteroids getting thrown around by an invisible point in space, there's a black hole!

What goes on there?

Black holes are enormous. They are the most massive and the most extreme things in the universe. Black holes are extremely dense and curve the space–time around them infinitely. They puncture down the very fabric of space time itself.

Time works completely differently around Black Holes. They are so massive that they slow down the time around them, the more you go closer to the black hole, the more slowly time is going to run for you! Anything that goes inside the black holes first passes through the Event Horizon. The gravitational pull of the black hole is extremely strong and nothing, not even the light can escape it!



What if you fell into a Black Hole?

There are a whole lot of ways a Black Hole can kill you, some are –

- **Spaghettification** – As you know, the gravitational pull of the Black Hole is extremely strong and it gets stronger and stronger per inch, so, if you fall straight facing up, the gravity on your feet will be extremely stronger than on your head and so you will be stretched up like a chewing-gum and will be turned into spaghetti (noodle).
- **Carbonized by the fire wall** – Black holes have a lot of dust particles orbiting it at massive speeds, and if they collide, they can get heated up to billions of degrees, so if you were to get in contact with it, you will be instantly burned to crisp!

How fast you will die also depends on the size of the Black hole, for example, a small Black Hole will kill you even before you enter its event horizon, as for much larger black holes, you can fall inside them for sometime and then get disintegrated to atoms.

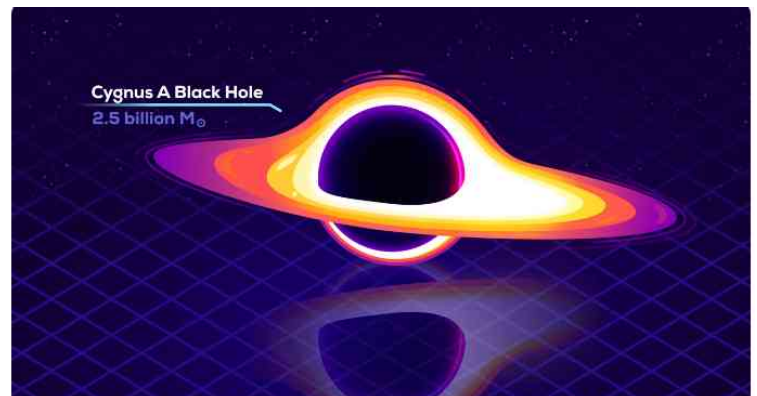
Types of Black Holes

- **Stellar Black Holes** – These Black Holes usually have mass of ranging from a few to about 20 solar masses
- **Intermediate-Mass Black Holes** – These Black holes have a mass of about hundreds to thousands of solar masses!
- **Super Massive Black Holes** – These cosmic giants lurk at the center of galaxies, with masses millions to billions of times greater than our Sun! Milky Way for instance, hosts a super massive Black hole named Sagittarius A*.

Top 4 Largest Black Holes ever discovered!

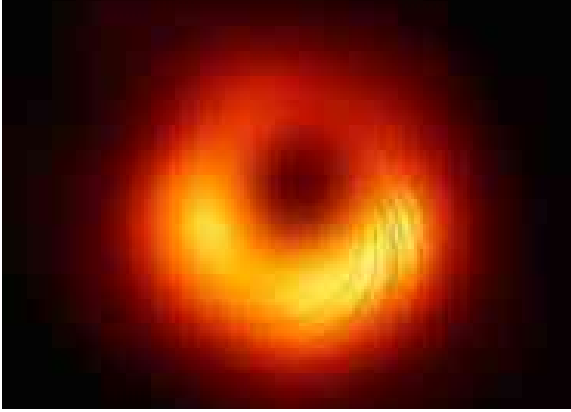
4. Cygnus A Black Hole

This Super massive Black Hole has a mass of about 2.5 billion sun and is 14.7 billion kilometers wide. It devours so much mass that it creates its field in a type of magnetic funnel and its jets stretch up to 1 light year.





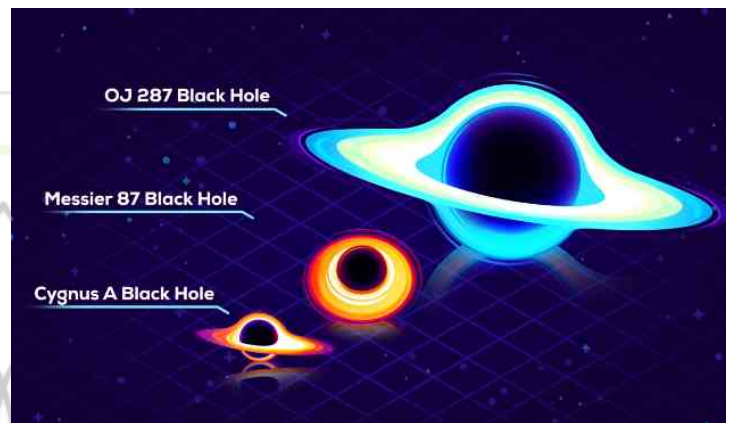
3. Messier 87 Black hole



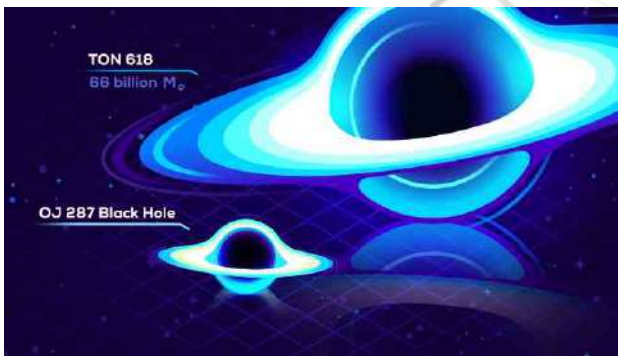
The M87 Black hole also known as Messier 87*, is a super massive black hole located at the center of the M87 galaxy, about 55 million light years away from the earth. It has a mass of 6.5 billion times that of the Sun and is surrounded by a swirling disk of gas and dust. This Black Hole is the very first black hole of which we could actually take a picture of.

2. OJ 287 Black Hole

The Central Black Hole of galaxy OJ 287 is about 18 billion times more massive than our sun, having an accretion disk that is brighter than a thousand galaxies! It is so massive that it has a Super massive black hole about 6x more massive than Sagittarius A* orbiting it. It is so large that it can comfortably fit 3 solar systems side by side inside it.



1. TON-618



This Black Hole can be observed consuming galaxies worth of matter and is shining with the brightness of about 100 trillion stars, visible from 18 billion light years away. It has an incredible mass of 68 billion solar masses. So large that it can easily fit 11 solar systems side by side!

Conclusion

Black Holes remain one of the most profound and mysterious phenomena in the cosmos. They challenge our understanding of Physics, time, and the very fabric of the universe. Research in this field continues to advance, offering new insights into the nature of these enigmatic cosmic objects. As we peer deeper into space, black holes will undoubtedly continue to astound and captivate our scientific imaginations, providing a window into the most extreme regions of the cosmos.



Regenerative Medicine: Transforming Healthcare

-Isha Patel, B.Sc. Biotechnology (3rd Year)

Regenerative medicine is focused on developing and applying new treatments to heal tissues and organs and restore function lost due to aging, disease, damage or defects.

The human body has the natural ability to heal itself in many ways. A cut to the skin repairs itself, broken bones mend and a living-donor's liver regenerates in a few weeks. Imagine if scientists could capture this naturally occurring ability to heal and apply it to a wide range of conditions. Heart disease, stroke, diabetes and osteoarthritis are examples of chronic conditions that are long lasting and do not resolve on their own. In many cases, symptoms can be managed with medication or medical devices. Regenerative medicine goes beyond disease management to search for and discover therapies that support the body in repairing, regenerating and restoring itself to a state of well-being. From prenatal surgical interventions to treatments for lifelong degenerative and disabling conditions, regenerative medicine therapies prompt the body to enact a self-healing response. These advancements in patient care across a wide range of medical specialties point to new solutions to expand and maintain optimal health and quality of life.

Potential Of Nanotechnology In The Field Of Medicine



-Ishika Patidar, B.Sc. Biotechnology_(2nd Year)



Nanotechnology refers to the branch of science and engineering devoted to designing, producing, and using structures, devices, and systems by manipulating atoms and molecules at nanoscale.

One of the most promising applications of our newfound ability to manipulate individual atoms and molecules is in healthcare, where the ability of doctors to treat disease has been hamstrung by relatively blunt “macro” solutions.

The human body is a remarkably complex system where, fundamentally, nanoscale processes occurring inside cells are what determine whether we are sick or healthy. If we're ever going to cure diseases like diabetes, cancer or Alzheimer's, we need technologies that work at their scale. Although medical nanotechnologies are relatively new, they're already impacting the way we diagnose, treat and prevent a broad range of diseases.

The future of nanotechnology in healthcare and medicine holds immense potential for revolutionizing the way we diagnose, treat, and prevent diseases. This opens up new opportunities for developing novel therapies, targeted drug delivery systems, and sensitive diagnostic tools. In addition to drug delivery, targeted delivery, improved drugs, limited dosages, and reduced systematic side effects, nanoparticles can also be used to enhance the efficacy of existing drugs by improving their solubility, stability, and bioavailability.





Book Reviews



The Scientific Indian: A Twenty-First Century Guide To The World Around Us By A.P.J. Abdul Kalam And Y.S. Rajan

-Smritisikha Satapathy, B.Sc. Microbiology (2nd Year)



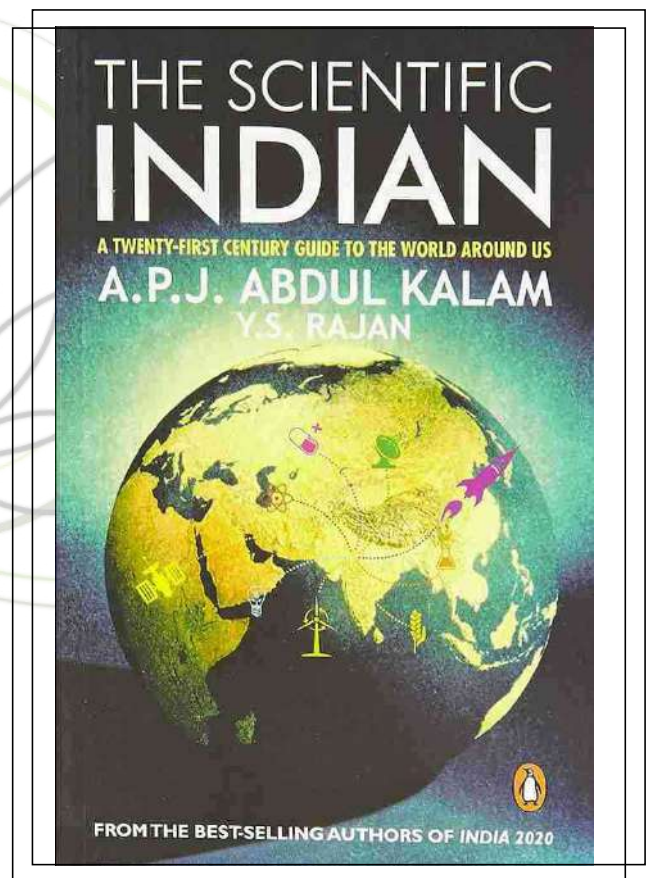
In the collaborative masterpiece, "The Scientific Indian," A.P.J. Abdul Kalam and Y.S. Rajan deliver a comprehensive guide that transcends the conventional boundaries of scientific literature. Published in paperback, this enlightening exploration navigates the intricate tapestry of the twenty-first-century world, serving as a beacon for both the scientifically curious and seasoned scholars.

Contextualizing the Visionaries-

This collaborative effort by two eminent minds, A.P.J. Abdul Kalam, former President of India, and Y.S. Rajan, renowned technocrat, is a testament to their commitment to fostering scientific curiosity. rooted in India's rich scientific heritage the book unfolds as an odyssey through contemporary.

A Multifaceted Journey-

"The Scientific Indian" embarks on a multifaceted journey, unraveling the mysteries of diverse scientific domains. From space exploration and renewable energy to healthcare and artificial intelligence, Kalam and Rajan meticulously navigate through the frontiers of knowledge, making science accessible to readers from all walks of life.



Accessible Language, Profound Insights: What sets this book apart is its eloquent simplicity. The authors masterfully distill complex scientific concepts into digestible narratives, making the book accessible to a broad readership. Whether delving into the intricacies of nanotechnology or unraveling the wonders of biotechnology, the prose remains engaging, allowing readers to savor the beauty of science without feeling overwhelmed.





Holistic Approach to Science: "The Scientific Indian" adopts a holistic approach, demonstrating the interconnectedness of scientific disciplines. It goes beyond mere technological marvels, delving into the social, ethical, and economic dimensions of scientific advancements. The authors emphasize that science isn't isolated but is a dynamic force shaping the world in profound ways.

Space Exploration and Beyond: Kalam, often referred to as the "People's President" and the "Missile Man of India," brings his expertise in space technology to the forefront. The book offers insights into India's space endeavors, chronicling its evolution from humble beginnings to remarkable achievements. The narrative serves as an inspiration for aspiring scientists, fostering a sense of national pride in India's contributions to space exploration.

Renewable Energy Revolution: The authors advocate for a sustainable future, dedicating sections to renewable energy sources. Their vision transcends traditional boundaries, envisioning a world powered by clean energy. Discussions on solar and wind energy reflect their commitment to addressing global challenges, providing a roadmap for a more sustainable and eco-friendly world.

Innovation in Healthcare: "The Scientific Indian" delves into the realm of healthcare, exploring the potential of cutting-edge technologies in improving medical outcomes. From personalized medicine to the use of artificial intelligence in diagnostics, Kalam and Rajan underscore the transformative role of science in enhancing healthcare accessibility and quality.

Technological Frontiers: Artificial intelligence, nanotechnology, and biotechnology take the center stage in the book's exploration of technological frontiers. The authors navigate the ethical considerations associated with these advancements, urging a thoughtful and responsible integration of technology into society.

Cultural Context and National Identity: The book seamlessly weaves cultural context into its scientific narrative, emphasizing the importance of preserving and celebrating India's rich heritage. It serves as a reminder that scientific progress should be rooted in a deep appreciation for cultural diversity, fostering a sense of national identity and pride.

Challenges and Realistic Optimism: "The Scientific Indian" candidly addresses challenges facing the scientific community, from resource constraints to the need for inclusive education. Yet, Kalam and Rajan approach these challenges with a spirit of realistic optimism, advocating for collective efforts to overcome obstacles and propel India and the world into a future defined by scientific excellence.



Legacy and Continued Relevance: The legacy of A.P.J. Abdul Kalam is palpable throughout the book, reflecting his unwavering belief in the transformative power of science. Y.S. Rajan, with his wealth of experience, complements Kalam's vision, ensuring the book's continued relevance as a guide for the scientifically curious, educators, and policymakers.

Conclusion-

"The Scientific Indian: A Twenty-First Century Guide To The World Around Us" transcends the realms of a conventional scientific guide. It is a testament to the indomitable spirit of exploration and inquiry that defines A.P.J. Abdul Kalam and Y.S. Rajan. The book's eloquence, coupled with its panoramic exploration of science, makes it an indispensable companion for anyone seeking to comprehend the intricate yet fascinating world of contemporary science. As the twenty-first century unfolds, this collaborative masterpiece remains an enduring beacon, illuminating the path toward a future where science is not just a discipline but a guiding force shaping the destiny of nations and the well-being of humanity.





2

The Gene: An Intimate History By Siddhartha Mukherjee

-Vanita Panda, B.Sc. Microbiology (2nd Year)



About the author-

Siddhartha Mukherjee, an Indian-born American oncologist, researcher, and Pulitzer Prize-winning author stands as a luminary in the realms of medicine and literature. Born in New Delhi, Mukherjee pursued his education at Stanford University, where he earned a Bachelor's degree in biology and a Doctor of Medicine (MD) degree.

His exceptional literary scientific expertise with Mukherjee gained groundbreaking book "The Biography of Cancer," which General Nonfiction in 2011. illuminated the history and earning accolades for its insights into the disease.

Mukherjee's inimitable style scientific concepts lucidly the barriers between general reader. His commitment to science, humanity, and ethics figure shaping contemporary genetics. Siddhartha inspire and educate through his compelling writing and contributions to the fields of medicine and literature.



works seamlessly blend storytelling finesse. widespread acclaim for his Emperor of All Maladies: A earned the Pulitzer Prize for This literary triumph complexities of cancer, accessibility and profound

of elucidating intricate and engagingly transcends scientific discourse and the exploring the intersection of marks him as a prominent discourse in medicine and Mukherjee continues to

Book review-

Siddhartha Mukherjee, an eminent Indian-American physician, and writer, brings forth an illuminating narrative in his remarkable book, "The Gene: An Intimate History." This meticulously crafted literary masterpiece navigates the intricate landscape of genetics, taking readers on a compelling journey through the history, science, and ethical implications of genetics research.

Mukherjee artfully weaves together scientific discoveries, personal anecdotes, and historical narratives to elucidate the profound impact of genetics on humanity.



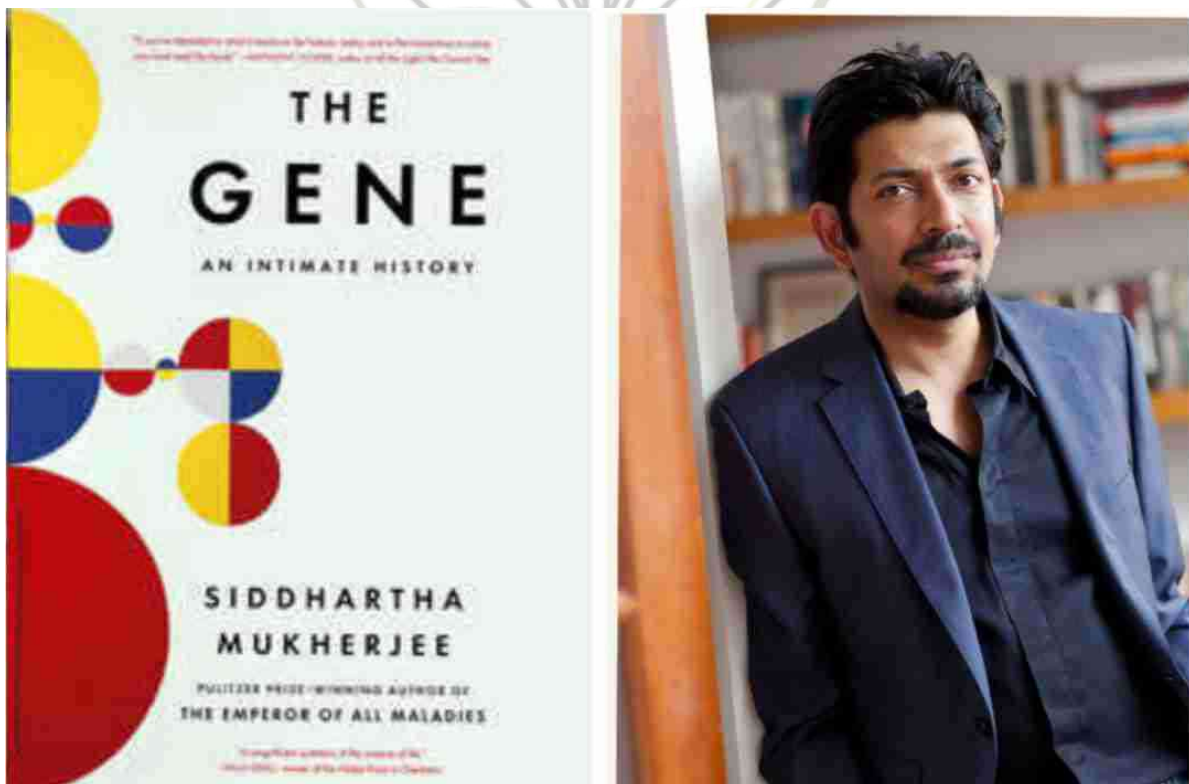


The book's core is an exploration of the gene, from its discovery to contemporary breakthroughs, tracing its influence on shaping the understanding of heredity, disease, and human identity.

The narrative unfolds seamlessly, beginning with the foundational work of Gregor Mendel and moving through the riveting saga of the Human Genome Project. Mukherjee delves into the lives and contributions of pioneering scientists such as Watson, Crick, and Rosalind Franklin, providing a vivid portrayal of their scientific endeavours and the complexities of their interpersonal relationships, illuminating the human side of scientific pursuit.

What distinguishes this book is Mukherjee's ability to distil complex scientific concepts into accessible and captivating prose, making it an engaging read for both scientific enthusiasts and the general public. He adeptly elucidates intricate genetic mechanisms without sacrificing accuracy or oversimplifying the subject matter.

Moreover, Mukherjee doesn't shy away from delving into the ethical dilemmas spawned by genetic advancements. He navigates the delicate terrain of genetic engineering, gene editing, and the ethical quandaries surrounding the control and manipulation of our genetic blueprint. Mukherjee prompts readers to ponder the moral implications of wielding such immense power over the building blocks of life, urging thoughtful consideration of the ethical ramifications of genetic manipulation.

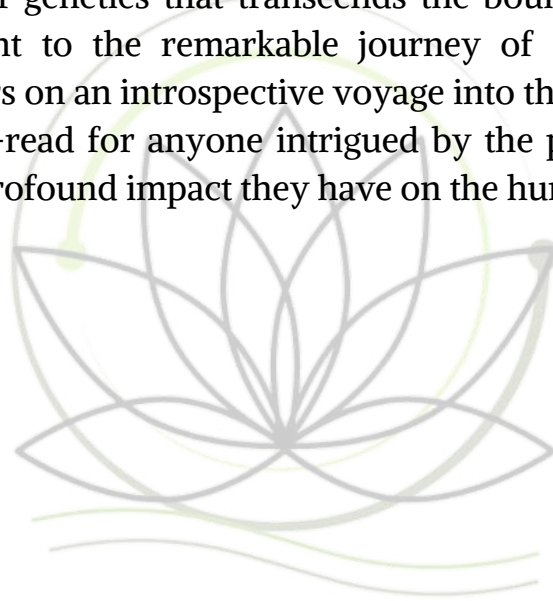




Interwoven within the scientific narrative are deeply personal accounts from Mukherjee's family history, adding a poignant layer to the book. He chronicles the presence of mental illness in his family tree, offering a touching and intimate perspective on the impact of genetic disorders and the intricacies of heredity. This infusion of the personal narrative serves to humanize the scientific discourse, lending an emotional depth to the exploration of genetics.

"The Gene: An Intimate History" stands as a testament to Mukherjee's prowess as a storyteller and his mastery in navigating the complex terrain of genetics. It not only serves as a comprehensive guide to the history and science of genetics but also sparks contemplation on the societal, ethical, and philosophical implications of genetic discoveries.

In conclusion, Siddhartha Mukherjee's "The Gene: An Intimate History" is a captivating and enlightening exploration of genetics that transcends the boundaries between science and literature. It is a testament to the remarkable journey of discovery that genetics has undertaken, inviting readers on an introspective voyage into the fundamental essence of life itself. This book is a must-read for anyone intrigued by the profound mysteries encoded within our genes and the profound impact they have on the human experience.





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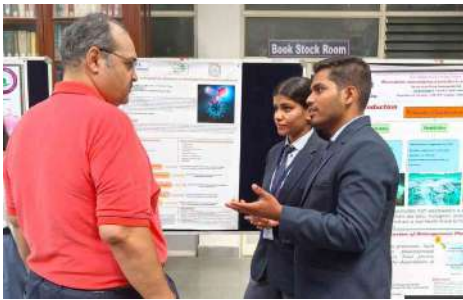


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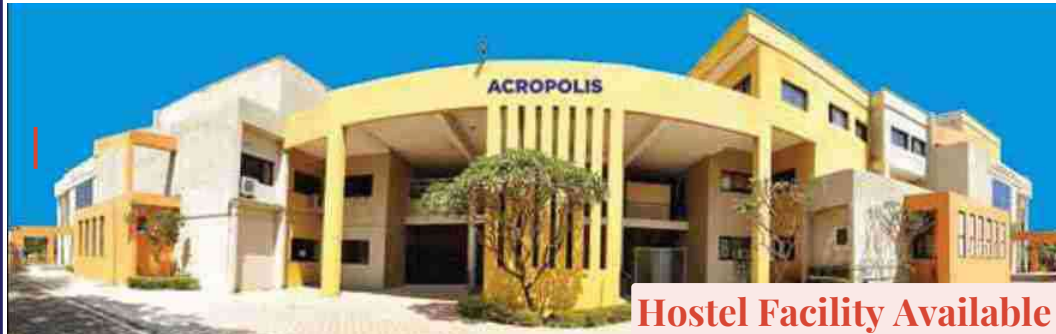


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