

Jayoti Vidyapeeth Women's University, Jaipur

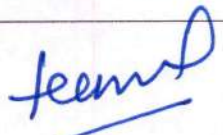
BOARD OF STUDIES

Members of the Board of Studies in Science, Technology & Applied Arts

The Board of Studies, Science, Technology & Applied Arts shall consist of the following members:

| S. No. | Name of Member | Designation (Board of Studies) |
|--------|--|--|
| 1. | Dr. Shobha Lal | Convener, Board of Studies |
| 2. | Dr. Anish Kr Choudhary, Associate Professor, Computer Science, Chameli Devi Group of Institutions, Indore | Co-Opted By Bos External Member |
| 3. | Dr. Sandeep Poddar, Deputy Vice Chancellor, (Research & Innovation) Executive Editor, Lincoln University College | Co-Opted By Bos External Member |
| 4. | Dr. Rupesh K Shukla, HOD, Computer Science department, Shri Cloth Market Kanya Vanija Mahavidyalaya, Indore | Co-Opted By Bos External Member (Computer Science) |
| 5. | Dr. Sunita Bhatti | Member (Subject Coordinator -Computer Science) |
| 6. | Ms. Indu | Member (Subject Coordinator - Civil/Electronics) |
| 7. | Dr. U.P Singh, Associate Professor of Mathematics, Harcourt Butler Technical University, Kanpur | Co-Opted By Bos External Member (Mathematics) |
| 8. | Dr. Braj Raj Singh Chouhan | Member (Subject Coordinator- Mathematics) |
| 9. | Dr. Bhanu Mani Dixit, Director, Institute of Natural Sciences & Humanities and Student Welfare, SRMU | Co-Opted By Bos External Member (Physics) |
| 10. | Dr. Shambhavi Mishra | Member (Subject Coordinator- Physics) |
| 11. | Dr. Pardeep Kr. Srivastva | Co-Opted By Bos External Member (Chemistry) |
| 12. | Dr. Priya | Member (Subject Coordinator- Chemistry) |
| 13. | Dr. Y. Chandrakala | Member (Subject Coordinator -Botany) |
| 14. | Prof. Pooja Verma, Director – Amity School OF Fashion Technology, Lucknow Amity School of Fine Arts, Lucknow | Co-Opted By Bos External Member (Fashion Technology) |
| 15. | Ms. Simran Walia | Member (Subject Coordinator -Fashion Design) |
| 16. | Dr. Manish Arora, Department of Applied Arts, Faculty of Visual Arts, BHU, Varanasi | Co-Opted By Bos External Member (Fine Arts) |
| 17. | Mr. Jaydeep Sharma | Member (Subject Coordinator -Fine Arts) |
| 18. | Mr. S.L Verma, BSNL | Industry Person, BSNL |
| 19. | Ms. Priya Bhardwaj Business Development Head - B2C Head, Hexnbit EdTech Pvt. Ltd. Noida, Uttar Pradesh | Industry Person Hexnbit EdTech Pvt. Ltd. Noida, Uttar Pradesh |
| 20. | Ms. Nishu Sharma | Coordinator, Board of Studies |

Date: June 30, 2022


Dr. Hema Bafila
Registrar

REGISTRAR
Jayoti Vidyapeeth Women's University,
Jaipur

JAYOTI VIDYAPEETH WOMEN'S UNIVERSITY, JAIPUR

BOARD OF STUDIES OF SCIENCE, TECHNOLOGY & APPLIED ARTS

The Agenda of the meeting of **Board Of Studies of Science, Technology & Applied Arts** scheduled to be held on 8/7/2022 via Virtual mode on Google meet from 11.00 Am-1:00 Pm.

- Agenda 1: To confirm the last meeting Minutes of Board of Studies
- Agenda 2: To discuss and consider the revisions in the syllabus/ Curriculum of different programs and courses under the Departments/Disciplines of the Department of Science Technology & Applied Arts as per AICTE and NEP guidelines
- Agenda 3: To introduce new skill and Job-oriented Diploma, PG Diploma, Short term/ Certificate Courses
- Agenda 4: To review Syllabuses on PG Level in Science and Technology programmes
- Agenda 5: To discuss the proposals for Start-ups, Innovations, Incubation and Research Publications and ongoing placement Activities under Department of Science Technology & Applied Arts.
- Agenda 6: To consider the proposal of Reconstitution of the Editorial board of University Research Resource Journal (URRJ) and Reminder to UGC CARE for Approval.
- Agenda 7: To emphasize the importance of Enhanced Industrial Exposure during programme duration.
- Agenda 8: To consider the Reports of Industrial visits, Project, Dissertation, Internship and other academic activities including recent Guidelines of Shodhshudhi (PDS) urkund.
- Agenda 9: To take into the Consideration any other matter by the permission of the Chair .



Jyoti Dr. Hema Bafila
(Registrar)

Date: June 30, 2022

JAYOTI VIDYAPEETH WOMEN'S UNIVERSITY JAIPUR

BOARD OF STUDIES SCIENCE, TECHNOLOGY & APPLIED ARTS

The Meeting of **Board Of Studies Science, Technology & Applied Arts** was held on 8/7/2022 via Virtual mode on Google meet from 11.00 Am – .1:00 pm . The Board of Studies, Science, and Technology & Applied Arts shall consist of the following members:

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| 11. | Dr. Pardeep Kr. Srivastava | Co-Opted By Bos External Member(Chemistry) |
| 12. | Dr.Priya | Member(SubjectCoordinator-Chemistry) |
| 13. | Dr.Y.Chandrakala | Member(SubjectCoordinator-Botany) |
| 14. | Prof. Pooja Verma, Director -Amity School OFFashionTechnology,LucknowAmitySchoolofFineArt s,Lucknow | Co-OptedByBos ExternalMember(FashionTechnology) |
| 15. | Ms.SimranWalia | Member(SubjectCoordinator-Fashion Design) |
| 16. | Dr.ManishArora, DepartmentofAppliedArts,FacultyofVisualArts,BHU,Va ranasi | Co-OptedByBosExternalMember(FineArts) |
| 17. | Mr. Jaydeep Sharma | Member (Subject Coordinator -Fine Arts) |
| 18. | Mr.S.LVerma, BSNL | Industry Person, BSNL |
| 19. | Ms.PriyaBhardwaj BusinessDevelopmentHead - B2C Head,HexnbitEdTechPvt.Ltd.Noida,UttarPradesh | IndustryPerson HexnbitEdTechPvt.Ltd.Noida,UttarPradesh |
| 20. | Ms.NishuSharma | Coordinator,BoardofStudies |

Agenda 1: To confirm the last meeting Minutes of Board of Studies

All the members of BOS confirmed and approved of the meeting minutes of last Board of Studies

Agenda 2: To discuss and consider the revisions in the syllabus/ Curriculum of different programs and courses under the Departments/Disciplines of the Department of Science Technology & Applied Arts as per AICTE and NEP guidelines

The revision of the syllabus/Curriculum was made with AICTE and Model UGC Model Curriculum with convergence to NEP 2020 Implementation and the existing curriculum of the University. The Curriculum proposed for amendments mapped to the need of industry, society and stakeholders concerned.

Agenda 3: To introduce new skill and Job-oriented Diploma, PG Diploma, Short term/ Certificate Courses

The Board of Studies (BOS) held a detailed discussion on developing new and existing courses with an emphasis on employability, entrepreneurship, innovation, and skill development. The aim is to align the curriculum with the needs of key stakeholders and industry trends.

After Long deliberations, New Courses were Introduced as follows:**1. Computer Science**

- New skill-based courses will be integrated with existing Computer Science and Engineering (CSE) programs:
 - Application of Artificial Intelligence (AI) and Machine Learning (ML) in Broader Domains
 - Digital Marketing
 - Graphic Design
 - Data Science

2. Fine Arts and Fashion Technology

- New Short-term and Diploma Programs will be introduced in:
 - Fine Arts
 - Fashion Technology

3. New Degree Programs in Fashion Technology

- Bachelor in Fashion Technology (BFT) will be introduced, following the guidelines as per NEP 2020
- Plans were approved to launch:

- Master in Fashion Technology
- PhD in Fashion Technology

These new programs will be rolled out starting from the upcoming academic session.

The BOS emphasized the importance of **skill and job-oriented courses** to promote **employability** and foster **entrepreneurship and innovation**. The proposed new courses will cater to **industry needs** and **stakeholder expectations**.

The members unanimously agreed to proceed with the development and launch of the new programs.

Agenda 4: To review Syllabuses on PG Level in Science and Technology programmes

The Board of Studies (BOS) reviewed and discussed the syllabuses of various Postgraduate (PG) programs. The BOS reviewed and discussed the PG level syllabuses and BOS have the opinion that in M.Sc. (Zoology) there is need of reshuffling of the course and there is a need to include new courses on Biosystematics, Ecology and Biodiversity, Reproductive biology and Embryology, Molecular Biology, Fish Biology and Toxicology, Entomology and Applied Zoology, Cancer & Radiation Biology, Biochemistry considering the latest Industry trends.

Reshuffling of courses has been proposed to align with current academic trends and industry needs.

- **New Courses were Introduced:**
 1. Biosystematics
 2. Ecology and Biodiversity
 3. Reproductive Biology and Embryology
 4. Molecular Biology
 5. Fish Biology and Toxicology
 6. Entomology and Applied Zoology
 7. Cancer & Radiation Biology
 8. Biochemistry

All PG programs, **except M.Sc. Mathematics and M.Sc. Chemistry**, will include two additional courses along with a **dissertation** component.

M.Sc. Chemistry

- Two existing courses have been **removed**.
- **New Courses Introduced:**
 1. Biophysical, Bioinorganic, and Bioorganic Chemistry
 2. Natural Products and Heterocyclic Chemistry

The course on **Discrete Mathematics** has been **replaced** with **Bioinstrumentation**.

M.Sc. Physics

- **Course Replacements:**
 1. Discrete Mathematics replaced by Mathematical Physics.
 2. Electronics replaced by Electrodynamics.

- **New Courses Introduced:**

- Statistical Physics
- Condensed Matter Physics
- Advanced Quantum Mechanics
- Laser Physics and Applications
- Computational Physics
- Physics of Nanomaterials

M.Sc. Mathematics

- **Course Modifications:**

1. Linear Algebra replaced by Theory of Generalized Functions.
2. Measure and Integration replaced by Real Analysis.

The BOS recommended that the course Analytical Chemistry be renamed to Bioinstrumentation, as the new name better aligns with the course content. All members unanimously agreed to the proposed changes and modifications in the syllabuses. The revised syllabuses across all PG programs were approved by the BOS.

Agenda 5: To discuss the proposals for Start-ups, Innovations, Incubation and Research Publications and ongoing placement Activities under Department of Science Technology & Applied Arts.

All the members of BoS emphasized on the need of apply for establishing ATAL INCUBATION CENTER(AIC) in the campus and for this to coordinate with NITI Aayog and other government agencies for the Advanced Research and Start-up facility for the scholars/students along with the faculty members .

Agenda 6: To consider the proposal of Reconstitution of the Editorial board of UniversityResearch Resource Journal (URRJ) and Reminder to UGC CARE for Approval.

All the members of BoS confirmed and approved the Reconstitution of Editorial Board of URJJ with the note that Reminder should be sent on priority basis to CARE Journal North Zone addressed to Prof. Atul Kumar Nodal Officer - CARE Journal_North Zone

Agenda 7: To emphasize the importance of Enhanced Industrial Exposure during programme duration.

All the members appreciated the industrial linkage of the Departments and regular visit of students to the different industries as per the curriculum need and suggested that the industrial visit should be started from very first Semester for the Enhanced Industrial Exposure of the students.

Agenda 8: To consider the Reports of Industrial visits, Project, Dissertation, Internship and other academic activities including recent Guidelines of Shodhshudhi (PDS) urkund.

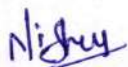
Reports of Industries visit, Project, Dissertation, Internship and other Academic Activities considered with a note that Dissertation and Project should be on the Emergent topic(s) and as per the need of

Industries and Societies. Recent guidelines of Urkund team ,INFLIBNET Gandhi Nagar Gujrat taken into the account in which team had suggested to not push UG/PG level project and Dissertation files to URKUND for Plagiarism detection . Concern Supervisors/Mentor Teachers will check such thesis at their own level and minutely to short out plag. Issue

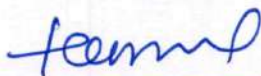
Agenda 9: To take into the Consideration any other matter by the permission of the Chair .

No other matter raised by members of BOS. The Meeting concluded with the vote of thanks by the Convenor of BOS.

Signature :



Prepared By: Coordinator , Ms. Nishu Sharma



Signature:

Verified By : Registrar, JV'n Dr. Hema Bafila

Copy To:

-Hon'ble Chairperson office

-Hon'ble Advisor Sir office

-President office

-Convener, Board of Studies

-Guard File

Jayoti Vidyapeeth Women's University Jaipur

Board of Studies in Science Technology and Applied Arts

Proposal for Introduction of New Courses in Computer Science & Engineering Programs.

A Proposal for Review of curriculum structure for B. Tech (CSE), BCA, and MCA and Introduction of new courses aligned with modern technological and industrial demand by Board of Studies, Science Technology and Applied Arts

The BoS convened to review and approve the introduction of new and interdisciplinary courses in the Computer Science and Engineering programs (B. Tech CSE, BCA, MCA) to keep pace with current industry trends and educational advancements in the domains of **Artificial Intelligence, Machine Learning, Data Science, Digital Marketing, and Graphic Design.**

Recommendations:

B. Tech (Computer Science & Engineering): New courses to be introduced, including:

BoS recommended to introduce Core fundamentals like **Data Structures & Algorithms, Computer Organization, Object Oriented Programming, and Relational Database Management Systems** in view of NEP 2020.

- Advanced and emerging areas such as:
 1. **Artificial Intelligence & Soft Computing**
 2. **Principles of Machine Learning**
 3. **Deep Neural Network, Natural Language Processing, Big Data Analytics, and Internet of Things**
 4. **Digital Image Processing, Computer Vision, and Social Network Analysis**
 5. **Software Defined Networks, Linux System & Shell Programming**
- Value-based courses such as **Value, Ethics and Governance**

These courses aim to equip students with skills in **AI/ML, Data Science, Cybersecurity, and Industry technologies.**

Bachelor of Computer Applications (BCA):

new courses to be introduced, such as:

- Core subjects: **Operating Systems, Python Programming, Web Programming**
- Analytics and security-focused courses: **Data Warehousing Using OLAP, Cryptography Fundamentals, Machine Learning Basics**
- Practical and emerging tech topics: **Cloud Computing, Mobile Application Development, OOAD using UML**

Master of Computer Applications (MCA):

- Application-focused modules: **Java Programming with GUI, Multimedia and Animation**
- Specialized courses in **AI & Applications, Neural Network, Web Intelligence & Hadoop**
- Security and systems courses: **Cryptography & Network Security, Microprocessor**
- A final semester Project for applied research and development.

The Board of Studies unanimously recommended above courses to Academic Council for the implementation of all proposed courses from the **Academic Session 2022–23.**

Signed By:

Convener *Prof. Shobke Lal*

Date: *8.07.2022*

Heena
Member Secretary *Dr. Heena*

