



ST. ALOYSIUS' COLLEGE

AUTONOMOUS
JABALPUR- 482001
MADHYA PRADESH, INDIA

Inclusivity
and
Equity



CRITERION-1

4 QUALITY
EDUCATION



CURRICULAR ASPECTS

Key Indicator – 1.2

Academic Flexibility

Metric No.: 1.2.1

Percentage of New Courses Introduced out of the total number of courses across all programmes offered during the last five years.

Document Name

Extracts of Minutes of Academic Council Meeting



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(AUTONOMOUS), JABALPUR(M.P.)

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DST-FIST Supported & Star College Scheme by DBT.

Minutes of Academic Council Meeting 2019-2023

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**Extracts of
Academic Council Minutes
2019-2020
Endorsing the decision of
Board of Studies 2019-2020**



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Academic Council Meeting

Date: 19th March 2019 (Tuesday)

The meeting of Academic Council Members of the College will be held on Tuesday, 19th March 2019 at 12:00 pm in the Conference Room. The following agenda were discussed during the meeting:

1. Opening Prayer.
2. Approval of the minutes of the last Academic Council Meeting.
3. Approval of the minutes of the last standing Committee Meeting.
4. UGC Autonomy Regulation 2018.
5. **Choice Based Credit system in PG**
6. Approval of syllabus of B.Sc. III year annual pattern
7. Approval of syllabus of M.Com. for III and IV semesters.
8. Special Exam for I, II, III and IV semester students
9. Approval of examiners.
10. Any other matter with the permission of the Chair.
11. Vote of thanks.
12. Concluding Prayer.

The following members were present in the meeting

Members	Sign.
1. Principal (Chairman) - Dr. Fr. Vazhen Arasu	
2. Vice Principal - Fr. Ben Anton Rose	
3. Vice Principal - Dr. K. Das	
4. Controller of Exam - Dr. Anjali D'Souza	
5. Deputy Controller of Exam - Dr. R.P. Ojha	
6. Dept. of Physics - Dr. Pramod Chaitnya	
7. Dept. of Maths - Dr. Mandira Kar	
8. Dept. of Chemistry - Dr. Smarika Kawlance	
9. Dept. of Botany - Dr. Shikha Bansal	
10. Dept. of Biotechnology - Dr. Laxmikant Pandey	



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11. Dept. of Zoology - Dr. Purnashree Mukherjee
12. Dept. of Comp. Sci. - Mrs. Siby Samuel
13. Dept. of English - Dr. Neelanjana Pathak
14. Dept. of Hindi - Dr. Carolin Saini
15. Dept. of Economics - Dr. Reeta Chouhan
16. Dept. of Pol. Sci. - Dr. Vishwas Patel
17. Dept. of History - Dr. M. M. Solomon
18. Dept. of Commerce - Dr. Rupali Ahluwalia
19. Dept. of Management - Dr. Pearly Jacob
20. Secretary - Dr. Preeti Jain

19/07/19
19.5.19
19/08/19
17/5/19
17/5/19
V-P-1-3
19.8.19
Rami

Four Teachers of the College (as per seniority)

1. Dept. of Management - Mrs. Rashmi Patra
2. Dept. of Chemistry - Dr. Shweta Likhakar
3. Dept. of Comp. App. - Ms. Prabhjyot Kaur
4. Dept. of Comp. Sci. - Mr. J. Rajeshwar Rao

Members nominated by the Governing Body

1. Educationist - Prof. N. K. Pendse
2. Industrialist - Mr. Narentra Somaiya
3. Law - Justice Prakash Maik
4. Commerce/Entrepreneur - Mr. Pradeep Chaddha

Three Nominees of the University

1. Gramodaya University, Chitrakoot - Dr. Bharat Mishra
2. Govt. Maharaja College, Chhattarpur - Prof. P. K. Khare
3. D.S.O., Dept. of Higher Education - Prof. Ajay Kumar Khare



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5. Implementation of Choice Based Credit System in PG.
6. Approval of syllabus of PG Departments -
- Dept. of Economics
 - Dept. of Political Science
 - Dept. of English Literature
 - Dept. of Physics
 - Dept. of Microbiology
 - Dept. of Zoology
 - Dept. of Chemistry
 - Dept. of Biotechnology
 - Dept. of Mathematics
 - Dept. of Computer Science
 - ✓ Dept. of Commerce.
7. Examination Pattern of CBCS.
8. New Courses for the session 2018-19 (M.Com.)
9. Research Projects in PG.
10. Certificate courses by the dept. of Chemistry, Physics, Biotechnology, Hindi, Zoology and Maths.
11. Nomination of BOS members.
12. Approval of Examiners.
13. Any other matter with the permission of the Chair.



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of such courses.

→ All UGC directives shall be strictly followed.
All the members requested the Principal strictly follow the Autonomy gazette notification of India regulation 2018 and inform the same to the University and State Government regarding the same.

5. Approval of syllabus of PG Courses:

The Principal asked all the HOD's of PG Departments to give the details of the syllabus for PG courses which has been approved by their BOS. All the HOD's of PG departments presented PG syllabus for the consideration.

→ Dr. Ratta Chouhan, Head, Dept. of Economics, proposed the syllabus of MA Economics and Dr. Vishwas Patel, Head, Dept. of Political Science proposed the syllabus of MA Political Science.

→ Dr. N. Pathak, Dr. P. Chaitanya, Dr. P. Mukherjee, Dr. S. Lawrance and Dr. Bhuvaneshwari proposed the syllabus of MA English literature, M.Sc. Physics, M.Sc. Zoology, M.Sc. Chemistry and M.Sc. Bio-technology respectively.

→ Dr. Shikha Bansal, Head, Dept. of Botany and Microbiology proposed the syllabus of M.Sc. Microbiology and Dr. Mandira Kar proposed the syllabus of M.Sc. Mathematics, in which the department introduced the new elective paper Mathematical Modeling.

→ Mrs. Siby Samuel, Head, Dept. of Computer Science proposed the syllabus of M.Sc. Computer Science. She informed that the department has maximum credits that is 104 for the syllabus.



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of PG departments were duly approved by the Academic Council unanimously. However few suggestions were given by the members to keeping view of the current needs of the society. Mr. Navendra Sonaiya suggested incorporating import and export in the syllabus of MA Economics to equip students to face global markets. He also suggested include GST in the syllabus. Prof. S.S. Sankhu suggested to incorporate additional skilled and skill development program into the syllabus over and above the existing skill programmes. He also suggested not to introduce those papers and electives for which proper literature and faculty is not available.

6. Choice Based Credit System in PG:

The chairman proposed to implement CBCS in all PG courses from the academic session to give a presentation on "Choice Based Credit system for PG in Arts, Commerce & Science". She said that all PG courses shall have 4 semesters and each semester will comprise of Core papers, Core electives, open electives and Practical. Total minimum Credits for a course will be 100. Four credits will be allocated for skill development courses, common to all PG programs, i.e. Computational skills, personality development, communication skills, Personal Productivity Programme and Entrepreneurship skills and students are free to choose any four. She also brought to the notice of the members about the calculation of SGPA and CGPA and the 10 points grading



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received from the university. The members suggested that reminder could be sent again and then place it in the meeting of the Governing Body.

* Choice Based Credit System in PG -

The Chairman brought to the notice of the members that the college has already implemented CBCS in all PG courses from the Council, but was decided that the pass percentage in PG under CBCS scheme will be 35% in OCE and main exam. The council members unanimously approved the same.



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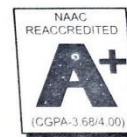
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AGENDA NO. 6 (Choice-based credit system in PG)

Endorsement of Approval from Various Boards of Studies in the Academic Council: Approved Courses for the Academic Year 2019-20

The Academic Council of St. Aloysius' College, deliberated on several academic proposals including significant enhancements to the curriculum across various departments. The Council, consisting of department heads and other academic stakeholders, has reviewed and hereby endorses the inclusion and modification of courses for the academic year 2019-20 as part of our commitment to academic excellence and relevance in higher education.

The Council has approved the following new courses under the Choice-Based Credit System (CBCS) for their respective programs:

Masters of Science in Chemistry, offerings such as MSC Inorganic Chemistry I & II, MSC Organic Chemistry I & II, MSC Physical Chemistry I & II, MSC Spectroscopy I & II, and electives like MSC Maths for Chemist and Computers I, MSC Biology for Chemist and Computer I, MSC Analytical Chemistry II, and MSC Photochemistry II have been approved.

Masters of Science in Microbiology program will now include MSC Bacteriology I, MSC Virology I, MSC Mycology I, MSC Biomolecules I, MSC BIOENERGETICS AND INTERMEDIARY METABOLISM I, and for the second year, courses such as MSC Molecular Biology and Recombinant DNA Technology II, MSC Microbial Genetics II, MSC Biostatistics and Computer Application II, MSC Biology of Immune System II, and MSC Microbial Metabolism II.

Masters of Science in Zoology, new courses such as MSC Biosystematics, Taxonomy and Evolution I, MSC Structure and Function of Invertebrates I, MSC Qualitative Biology, Biodiversity and Wildlife I, along with electives like MSC Entomology I, MSC Wildlife Conservation I, MSC Applied Entomology II, and MSC Environment and Biodiversity Conservation II will be available.

Masters of Science in Computer Science has been expanded with courses like MSC Computer System Architecture I, MSC Software Engineering I, MSC Object-Oriented Modelling and Design I, MSC Computer Oriented Statistical Analysis I, MSC Java with GUI and Javascript I, MSC Automata Theory II, MSC Computer Graphics II, MSC Relational


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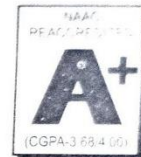
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Database Management System II, MSC Operation Research II, and MSC Advanced Java Programming and Web Technology II.

Masters of Science in Mathematics, courses such as MSC Advanced Abstract Algebra I & II, MSC Real Analysis I & II, MSC Topology I & II, MSC Complex Analysis I & II, and electives like MSC Functional Analysis I, MSC Integral Transform I, and MSC Number Theory II have been endorsed.

Masters of Arts in Economics will see courses like MA Micro Economics Analysis I, MA Macro Economics Analysis I, MA Quantitative Techniques I, MA Economics of Growth and Development I, MA Monetary Economics and Banking II, MA Statistical Inferences and Research Methodology II, and MA International Economics II.

Masters of Arts in Political Science will include comprehensive topics such as Indian Political Thoughts, International Politics & Contemporary Political Issues, Major Ideas in Public Administration, Western Political Thought, State Politics in India, International Organization, and Research Methodology.

Masters of Arts in English will offer MA English Poetry I & II, MA English Drama I & II, MA English Fiction I & II, and MA English Prose I & II.

Masters of Commerce, a broad range of subjects including Management Concepts and Organizational Behaviour, Managerial Economics, Financial and Cost Accounting, Financial Management, Financial Institutions and Markets, Marketing Management, Advertising and Sales Management, Corporate Legal Framework, Statistical Analysis, Investment Management, Project Planning and Management, Consumer Behaviour, and Strategic Marketing have been approved.

Masters of Science in Biotechnology program will include core courses such as MSC Cell & Developmental Biology, MSC Biomolecules, MSC Molecular Biology, MSC Analytical Techniques, MSC Immunology, MSC Microbiology and Industrial Applications, MSC Genetic Engineering, MSC Biostatistics and Bioinformatics, and electives like MSC Environment and Elementary Ecology, MSC Basics of Management.

This document affirms the Academic Council's approval of the above courses, ensuring they meet the quality standards expected for offering a comprehensive and dynamic academic experience. These courses have been carefully selected to prepare our students for successful careers and contributions to society.

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Academic Council Meeting

Dated - 19th December 2020 (Saturday)

The meeting of Academic Council members of the college was held on Saturday, 19th December 2020 at 12:00 pm onwards through online mode. The following agenda were discussed during the meeting:

1. Opening Prayer
2. Minutes of the last Academic Council Meeting
3. Minutes of the last Meeting of Standing Committee of Academic Council.
4. Changes in UG syllabus
 - Dept. of Economics
 - Dept. of Chemistry
 - Dept. of Biotechnology
 - Dept. of Zoology
 - Dept. of Physics
 - Dept. of Botany
 - Dept. of Hindi
 - Dept. of English
 - Dept. of Computer Science and Application
 - Dept. of Commerce
5. Changes in PG syllabus
 - Dept. of Chemistry
 - Dept. of Biotechnology
 - Dept. of Economics
 - Dept. of Microbiology
 - Dept. of Zoology
 - Dept. of Physics
 - Dept. of English
 - Dept. of Computer Science and Application
6. Certificate Courses/Value added courses/ Add on courses
7. Outcome Based Teaching and Learning.
8. List of Examiners
9. Any other matter with the permission of Chair.



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10. Votes of thanks
11. Concluding Prayer.

The following members were present in the meeting online:

Members

1. Principal (Chairman): Dr. Fr. G. Vasdev Araou

HOD

2. Dept. of Physics: Dr. Pramod Chaitnya
3. Dept. of Mathematics: Dr. Mandira Kaur
4. Dept. of Chemistry: Dr. Smritika Lawrance
5. Dept. of Botany and Microbiology: Dr. Sikha Baner
6. Dept. of Biotechnology: Dr. Laxmikant Pandey
7. Dept. of Zoology: Dr. Priganka Sinha
8. Dept. of Computer Science and App: Dr. Siby Samuel
9. Dept. of English: Dr. N. Pathak
10. Dept. of Hindi: Dr. R. P. Dija
11. Dept. of Economics: Dr. Reeta Chauhan
12. Dept. of Pol. Science: Dr. Tukina Johel
13. Dept. of History: Dr. Manju M. Solomon
14. Dept. of Commerce: Dr. Rupali Ahluwalia
15. Dept. of Management: Dr. Realy Jacob

Four Teachers of the College (as per Seniority)

1. Vice Principal: Dr. Kallol Das
2. Controller of Exam: Dr. Anjali D'souza
3. Dean, Faculty of Physical Science: Dr. Mita Dasgupta
4. Deputy Controller of Exam: Dr. Vishwas Patel

Members nominated by the Governing Body

1. Educationist: Prof. N. K. Bendre
2. Industrialist: Mr. Navendra Somaiya
3. Law: Justice Prakash Naik



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Principal request Dr Anjali D'souza to throw some light on the agenda regarding the conversion of marks. This was unanimously approved by the members. The minutes were proposed and seconded by Dr. Shikha Bansal and Dr. Neelanjana Pathak respectively.

* Approval of changes in UG and PG syllabus

The Principal asked all the HODs of UG and PG Departments to present the changes and additions in the syllabus of UG and PG courses which has been approved by BOS for the 2021-22. The HODs presented unit wise changes or additions in UG and PG syllabus for the consideration:

Dr. Smritika Lawrence, Head, Department of Chemistry, put forward the changes in the syllabus of M.Sc. I and II semesters. She briefed the members of Council paper wise and unit wise topics which have been elaborated, Nanomaterials, ceramics and nanocomposite have been introduced in M.Sc. III semester, because these topics have a wide scope in the present scenario and are beneficial for future research. This was proposed by Dr. K. Das and seconded by Dr. P. K. Khare.

In absence of Dr. Reeta Chouhan (Head, dept of Economics), Dr. Elena Philip, Dean, Faculty of Arts and Social Sciences stated the additions in the syllabus of BA II year and MA III and II semesters in Cell



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elective papers. The changes have been made in view of the recent policies of the Govt., like trends in Banking sector, priority sectors lending in India have been included. This will enable the students to have a better understanding of the subject and recent policies of the Govt. Migrant labour was a big issue at the time of COVID-19 pandemic, so this topic has been added. This was proposed by Dr. N. Pathak and seconded by Dr. Peally Jacob.

- Dr. Laxmikant Pandey, Head, Dept. of Biotechnology, presented the additions in the syllabus of M.Sc. Biotechnology. In paper I in unit V topic "COVID-19" and in paper II in unit V topic "Nucleotide Sequencing" have been included. This was proposed by Dr. Shikha Bansal and seconded by Dr. Smritika Kawrance.
- Dr. Priyanka Sinha, Head, Dept. of Zoology, presented the additions in B.Sc. and M.Sc. syllabus paper wise and unit wise. 3 new practical under DBT Star College Scheme (Working of PCR, DNA sequences etc.) in B.Sc. III year syllabus. This was proposed and seconded by Dr. Mita Barbari and Dr. Laxmikant Pandey respectively.
- The additions in the syllabus of B.Sc. physics were put forth by Dr. Pramod Chaitanya, Head, Dept. of Physics. He stated that in B.Sc. II year "Newton's Rings and its application for determination



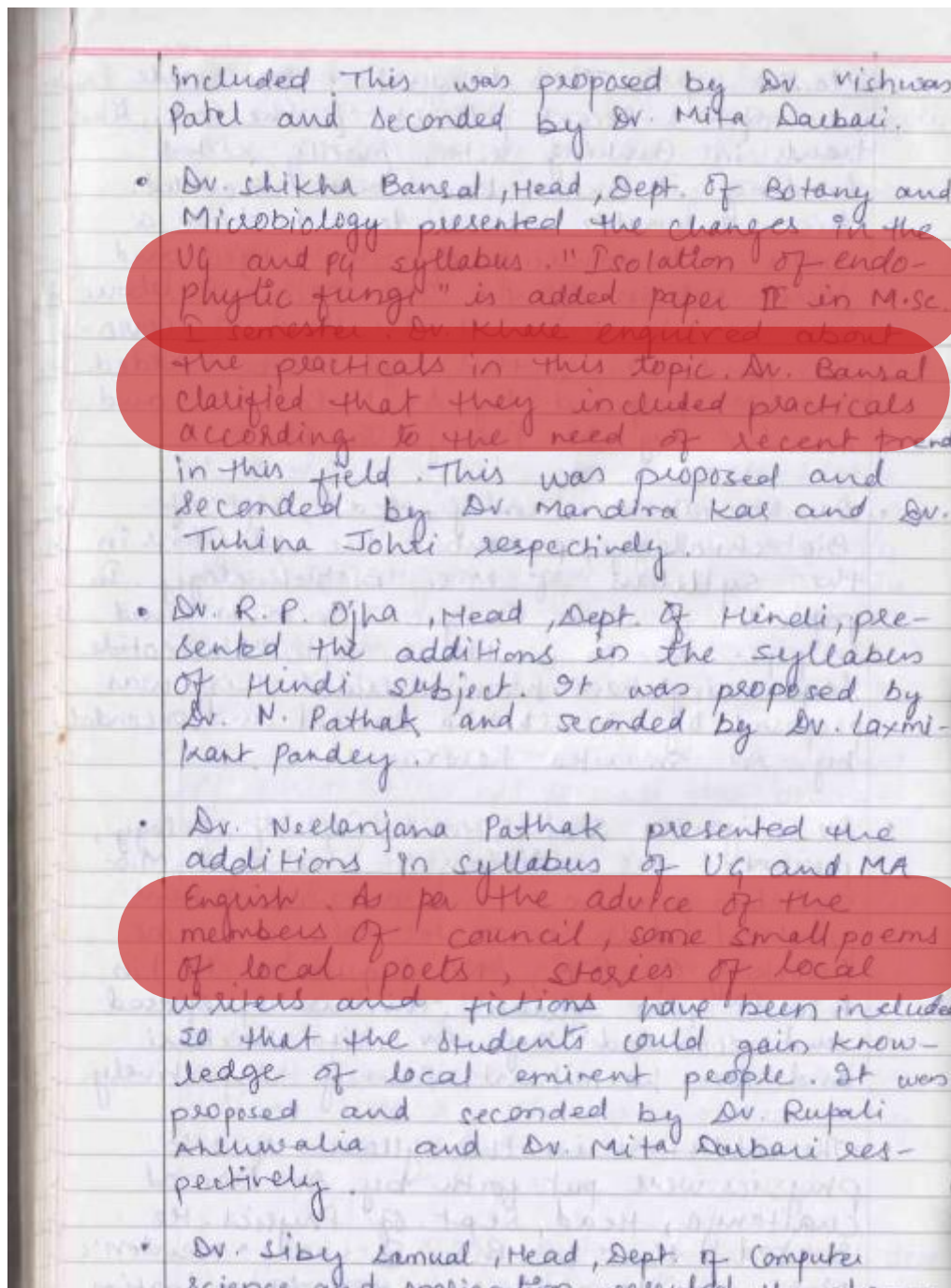
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BCA. Earlier the passing criteria was paper wise, now as per the change incorporated by the university, the scheme of Examination includes passing as group wise and Group I, II and III comprising of two papers, Group IV for PC and Group V for all the practicals. In each group students are required to obtain minimum 27 marks in theory and 7 marks in internal assessment to pass. In B.Sc. II year, the topics Data Structure and software engineering and programming software have been included in paper II as per the demand of the IT sector. In view of the current needs of the society E-commerce and cyber security have been added. It was proposed by Dr. Manju Maria Solomon and seconded by Dr. N. Pathak.

- Dr. Rupali Ahluwalia presented the additions in the syllabus of B.Com, B.Com (Hons) and M.Com. The topic "Types of Cost for Managerial Decision Making." in B.Com II year has been included to enhance the skills of decision making. New Dimensions of E-Business and Types of Insurance were added as per feedback received from experts of Bajaj Finserv. In GST paper, E-way billing provisions have been included as per the expert comment received from GST Commissioner to provide practical knowledge. This was proposed and seconded by Dr. N. Pathak and Dr. Priyanka Sinha respectively.

All the changes and additions in the syllabus proposed by all the Heads of UG and PG departments were duly approved by the Academic Council unanimously.



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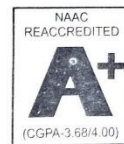
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AGENDA NO. 5 (Changes in PG syllabus Sem III and V)

Endorsement of Approval from Various Boards of Studies in the Academic Council: Approved Courses for the Academic Year 2020-21

The Academic Council has approved courses for the academic year 2021 under the Choice-Based Credit System (CBCS) for PG III and IV semesters, based on deliberations in the Board of Studies in Science, arts, and commerce programs. These courses include:

Masters of Science in Chemistry, MSC III and IV Inorganic Chemistry, MSC III Physical Chemistry, MSC III Spectroscopy, and electives MSC III Medicinal Chemistry, MSC III Polymers, and MSC III Chemistry of Natural Products have been approved.

Masters of Science in Microbiology program, MSC III Environment Microbiology, MSC III Medical Microbiology, and MSC III Agriculture Microbiology, alongside MSC III Bioprocess Engineering and Technology.

Masters of Science in Zoology, new courses such as MSC III Comparative Anatomy of Vertebrates, MSC III Limnology, and MSC III Ecotoxicology, electives MSC III Sericulture, and MSC III Animal Biotechnology.

Masters of Science in Computer Science, MSC III Advanced Computer Networks, MSC III Data Mining, MSC III Analysis and Design of Algorithms, and electives MSC III Artificial Intelligence and MSC III Big Data Analytics.

Masters of Science in Mathematics, courses such as MSC III Operations Research-I, MSC III Special Functions, MSC III Numerical Methods I, electives like MSC III Programming in C, MSC III Functional Analysis II, and MSC III Advanced Discrete Mathematics have been endorsed.

Masters of Arts in Economics, MA III Public Economics, MA III Industrial Economics, MA III Agricultural Economics, MA III Rural Development, and MA IV Indian Economy: Structure, Problems and Policy.

Masters of Arts in Political Science, MA III International Law, MA III Indian Foreign Policy, MA III Comparative Politics, and electives like MA III Women and Political Participation and MA IV Political Leadership.

Masters of Arts in English, MA III Critical Theory, MA III English Language, MA III Indian Writing in English, MA III American Literature, and electives like MA IV Trends and Techniques of Effective Communication.


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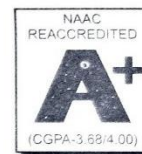
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Masters of Commerce, a broad range of subjects including M.COM I Principles of Direct Taxes, M.COM I Principles of Goods and Service Taxes, M.COM III Advance Income Tax, and M.COM IV Corporate Tax Planning have been approved.

The Masters of Science in Biotechnology program will include courses such as MSC III Bioprocess Engineering & Environmental Biotechnology, MSC III Plant Biotechnology, MSC III Animal Biotechnology, and electives MSC III Applied Oncology.

This comprehensive enhancement of our academic offerings ensures a robust and relevant educational experience for our students, preparing them effectively for their future careers and societal contributions.


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Minutes of Academic Council Meeting
2021-2022



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**Extracts of
Academic Council Minutes
2021-2022
Endorsing the decision of
Board of Studies 2021-2022**



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Academic Council Meeting
Date - 11th December 2021 (Saturday)

Online Academic Council Meeting was held on Saturday, 11th December 2021 at 1:30 pm onwards.

The following agenda were discussed during the meeting:

1. Opening Prayer
2. Minutes of the last Academic Council Meeting
3. Approval of UG syllabus according to NEP
Dept. of Physics
Dept. of Mathematics
Dept. of Chemistry
Dept. of Botany
Dept. of Biotechnology
Dept. of Zoology
Dept. of Computer Science
Dept. of English
Dept. of Hindi
Dept. of Economics
Dept. of Political Science
Dept. of History
Dept. of Commerce
Dept. of Management
4. Approval of PG syllabus
• Dept. of English
• Dept. of Political Science
5. Approval of Vocational Course syllabus
6. Approval of certificate course (Mathematics, Management and Hindi)
7. Approval of Examiners Panel
8. Implementation of Semester System 2022-23 in UG.
9. Any other matter with the permission of the
• PG Examination
10. Vote of thanks and closing prayer.



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Following members were present in the online meeting :

Principal (Chairman) - Rev. Dr. G. Razdan Arasu
HOD

Dr. Pramod Chaitnya (Dept. of Physics)
Dr. Mandira Kati (Dept. of Mathematics)
Dr. Smarika Lawrance (Dept. of Chemistry)
Dr. Sonali Nigam (Dept. of Botany and Microbiology)
Dr. Laxmikant Pandey (Dept. of Biotechnology)
Dr. Priyanka Sinha (Dept. of Zoology)
Dr. Siby Samuel (Dept. of Computer Science)
Dr. Neelanjana Pathak (Dept. of English)
Dr. R.P. Ojha (Dept. of Hindi)
Dr. Reeta Chetkar (Dept. of Economics)
Dr. Tubina Johri (Dept. of Political Science)
Dr. Manju M. Solomon (Dept. of History)
Dr. Rupali Ahluwalia (Dept. of Commerce)
Dr. Rashmi Patras (Dept. of Management)

Member Secretary (Nominated by Principal)
Dr. Preeti Jain

Four Teachers of the college (as per seniority)

Vice Principal: Dr. Kallol Das
Controller of Exams: Dr. Anjali D'souza
Dean, Faculty of Physical Science: Dr. Mita Sarkari
Deputy Controller of Exams: Dr. Vishwas Patel

Members nominated by the Governing Body

Educationist: Prof. N. G. Pendse
Industrialist: Ms. Navendra Somaiya
Law: Justice Prakash Naik
Commerce/Entrepreneur: Mr. Pradeep Chaddha



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Minutes of Academic Council Meeting

Opening Prayer :

The meeting commenced with an opening prayer by the Vice-Principal, Dr. K. Das. The Chairman extended a warm welcome to all the members.

Approval of the minutes of the Academic Council meeting

The Secretary read the minutes of the last meeting held on 8th March 2021, which was approved unanimously by the council. It was proposed by Dr. Siby Samuel and seconded by Dr. K. Das.

Approval of UG syllabus according to NEP:

The Principal asked all the HODs of the UG departments to present the changes in the syllabus of UG courses which have been approved by BOS. The HODs presented the syllabus of UG courses as per NEP for consideration:

- Dr. Pramod Chaitanya, Head, Department of Physics, and Dr. Akhilesh Pathak, Faculty member of Mathematics presented the syllabus of Physics and Mathematics for B.Sc. I year as per NEP respectively. It was unanimously approved by the members.
- Dr. Smarika Laxarance, Head, Department of Chemistry, and Dr. Sonali Nigam, Head, Department of Botany and Microbiology presented the syllabus of Chemistry and Botany for B.Sc. I year as per NEP in their respective subjects. Members approved this unanimously.
- Dr. Laxmikant Pandey, Head, Department of Biotechnology and Dr. Priyanka Sinha, Head, Department of Zoology presented the syllabus of B.Sc. I year as per NEP respectively. All the members of the council unanimously approved the same.
- Dr. Siby Samuel, Head, Department of Computer Science, presented the syllabus of Computer Science



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for BA/B.Sc./B.Com./BCA I year as per NEP. Dr. Neelajana Pathak, Head, Department of English and Dr. R.P. Ojha, Head, Department of Hindi presented the syllabus of English and Hindi as per NEP for BA/B.A./B.Com./B.Sc./BCA I year respectively. It was unanimously approved by the members of the council.

→ Dr. Reeta Chouhan, Head, Department of Economics, Dr. Tubina Johri, Head, Department of Political Science, and Dr. Manju Maria Solomon, Head, Department of History presented the syllabus of BA I year as per NEP in Economics, Political Science, and History respectively. It was unanimously approved.

→ Dr. Rupali Ahluwalia, Head, Department of Commerce presented the syllabus of B.Com I year as per NEP and Dr. Rashmi Patras, Head, Department of Management presented the syllabus of Management for BBA I year as per NEP. The Department has offered the course to the students in three groups A, B and C. This was approved unanimously by the members.

Approval of PG syllabus:

→ Dr. Neelajana Pathak, Head, Department of English presented the additions in MA English III semester. In paper - III, American Literature 2 topics T.S. Eliot's "The murder in the Cathedral" in Drama and F. Scott Fitzgerald's "The Great Gatsby" in Fiction were added.

→ Dr. Tubina Johri, Head, Department of Political Science presented the changes in MA (Pol. Sc.) II and III semester. In MA II semester in paper IV Research Methodology, in unit 5, one topic style of referencing, Plagiarism has been added to give the knowledge about reference writing style to the PG students and in MA III semester in paper III Local Government on topic "Education, Slum Improvement" was added.

These additions were duly proposed by Dr. R. P. Ojha and seconded by Dr. Priyanka Sinha.



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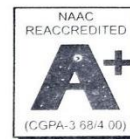
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AGENDA NO. 3 (Approval of UG syllabus according to NEP)

Endorsement of Approval from Various Boards of Studies in the Academic Council: Approved Courses for the Academic Year 2021-22

In alignment with the National Education Policy (NEP) the following courses are introduced in the academic year 2021-22. These courses are designed to provide a comprehensive and multidisciplinary approach to education across various fields.

Bachelor of Science (B.Sc.) Programs

B.Sc. in Chemistry (NEP Annual)

- B.Sc. 1 Year Paper I (Major): Qualitative and Quantitative Chemical Analysis (Practical)
- B.Sc. 1 Year Paper II (Major): Analytical Processes and Techniques (Practical)
- B.Sc. 1 Year Paper (Minor)

B.Sc. in Botany & Industrial Microbiology (NEP Annual)

- B.Sc. Tools and Techniques in Microbiology (Major)
- B.Sc. Tools and Techniques in Microbiology (Practical)
- B.Sc. Fundamentals of Industrial Microbiology (Minor)
- B.Sc. Fundamentals of Industrial Microbiology (Practical)
- B.Sc. Applied Botany (Minor/Elective)
- B.Sc. Applied Botany Practical
- B.Sc. Basic Botany Paper II (Minor/Elective)
- B.Sc. Basic Botany Practical II

B.Sc. in Zoology (NEP Annual)

- Animal Diversity: Non-Chordata
- Animal Diversity: Non-Chordata - Invertebrate (Practical)
- B.Sc. Cell Biology, Reproductive Biology, and Development Biology (Minor/Elective)
- B.Sc. Cell Biology, Reproductive Biology, and Development Biology (Practical)

B.Sc. in Physics (NEP Annual)

- Thermodynamics and Statistical Physics (Major)
- Thermodynamics and Statistical Physics (Practical)
- Mechanics and General Properties of Matter (Major)
- Mechanics and General Properties of Matter (Practical)
- Non-Conventional Energy Sources (Minor/Open Elective)

B.Sc. in Biotechnology (NEP Annual)

- B.Sc. Cell Biology and Biochemistry (Major)
- B.Sc. Lab Work in Cell Biology and Biochemistry (Major)
- B.Sc. Microbiology and Immunology (Major)
- B.Sc. Lab Work in Microbiology and Immunology (Major)

B.Sc. in Mathematics (NEP Annual)

- Algebra, Vector Analysis and Geometry
- Calculus, Differential Equations

Bachelor of Computer Applications (BCA) Programs

- BCA Programming Methodologies and Data Structures (Major)
- BCA Programming Methodologies and Data Structures (Practical)
- BCA Computer Fundamentals, Organization and Architecture


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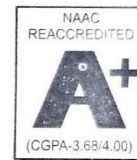
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- BCA Computer Fundamentals, Organization and Architecture (Practical)
- BCA Operating Systems
- BCA Operating Systems (Lab)
- BCA Computational Mathematics
- B.Sc. Computer System Architecture (Major)
- B.Sc. Computer System Architecture (Practical)

Bachelor of Arts (BA) Programs

- B.A. in English (NEP Annual)
- Paper I (Literature) - Study of Drama
- Paper II (Literature) - Study of Poetry
- Paper I (Functional) - Functional Grammar of English
- B.A. in Hindi (NEP Annual)
- हिंदी काव्य (पेपर 1)
- कार्यलीन हिंदी एवं भाषा कम्पुतिंग
- कार्यलीन प्रयोग
- B.A. in History (NEP Annual)
- History of India (From Earliest time to 1200 A.D.)
- Western World (Mid Fifteenth Century to 1870)

B.A. in Economics (NEP Annual)

- Micro Economics
- Indian Economy

B.A. in Political Science (NEP Annual)

- Basic Principles of Political Science
- Indian Government and Politics

Bachelor of Commerce (B.Com) Programs (NEP Annual)

- Financial Accounting
- Business Regulatory Framework
- Business Organisation and Communication
- B.Com Business Economics
- B.Com Business Mathematics
- B.Com Banking Institutions in India
- B.Com Advertisement, Sales Promotion and Management
- B.Com Data Processing
- B.Com Data Processing (Practical)

Bachelor of Business Administration (BBA) Programs (NEP Annual)

- Group A (Paper I) Principles of Management
- Group A (Paper II) Communication Skills
- Group B (Paper III) Micro Economics
- Group B (Paper IV) Business Statistics
- Group C (Paper V) Financial Accounting
- Group C (Paper VI) Business Mathematics

Foundation Courses (NEP Annual)

- Foundation Course: Bhasha aur Sanskriti
- Foundation Course: English Language and Indian Culture
- Foundation Course: Environmental Education
- Foundation Course: Yogic Science

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Minutes of Academic Council Meeting

2022-2023



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ACADEMIC COUNCIL MEETING

Date :- 22nd October 2022 (Saturday)

Online Academic Council Meeting was held on Saturday, 22nd October 2022 at 11:30 am onwards.

The following agenda was discussed during the meeting :

1. Opening Prayer
2. Approval of the minutes of last Academic Council meeting
3. Approval of the minutes of standing Committee meeting.
4. Approval of UG - I & II Semester syllabus and UG - II Year syllabus in accordance with NEP
 - Department of Economics
 - Department of Political Science
 - Department of English
 - Department of Hindi
 - Department of History
 - Department of Mathematics
 - Department of Physics
 - Department of Computer Science
 - Department of Chemistry
 - Department of Botany & Microbiology
 - Department of Zoology
 - Department of Biotechnology
 - Department of Commerce
 - Department of Management
5. Revision in PG syllabus - Department of Computer Science, Botany, Biotechnology and Zoology.
6. Approval of Add-on course and skill based program : Department of Computer Science and Commerce.
7. Approval / Updation of Examiner panel - Department



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of Political Science, Physics, Biotechnology, Botany and Zoology.

8. Admission policy for the year 2022-23
9. Any other matter with the permission of Chair.
10. Vote of thanks
11. Concluding Prayer.

Following members were present for the meeting:

1. Principal (Chairman): Dr. Fx. G. Vazhan Arasu.
2. Controller of Examination: Dr. Mita Daxbari
3. Deputy Controller of Examination: Dr. Tavinder K. Kainth
4. Dr. Mandira Kari, Department of Mathematics
5. Dr. Ramendra Prasad Ojha, Department of Hindi
6. Dr. Neelanjana Pathak, Department of English
7. Dr. Manju M. Solomon, Department of History - Absent
8. Dr. Siby Samuel, Department of Computer Science - Absent
9. Dr. Rupali Ahluwalia, Department of Commerce
10. Dr. Smarika Lawrence, Department of Chemistry
11. Dr. Sonali Nigam, Department of Botany & Microbiology
12. Dr. Peeta Choubhan, Department of Economics
13. Dr. Tahira Johari, Department of Political Science
14. Dr. Pramod Chaitnya, Department of Physics
15. Dr. Laxmikant Pandey, Department of Biotechnology



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16. Dr. Priyanka Sinha, Department of Zoology

17. Dr. Rashmi A. Patras, Department of Management

Four Teachers of College

18. Dr. Vishwas Patel, Department of Arts

19. Dr. Sonal Rai, Department of Commerce

20. Dr. Nishal Pandey, Department of Physics

21. Dr. Shradha Shrivastava, Department of Management

Governing Body Nominee

22. Prof. N.K. Pendse, Educationist

23. Mr. Prem Dubey, Industrialist - Absent

24. Justice Prakash Naik, Law - Absent

25. Mr. Pradeep Chaddha, Commerce/Entrepreneur

University Nominee

26. Prof. Vikram Prasad Pandey - Present online

27. Prof. Ajmeay Pandey - Absent

28. Prof. Rajendra Singh - Present online

Member Secretary: Dr. Sutapa Roy

Minutes of Academic Council Meeting

The meeting commenced with an opening prayer by Dr. Smarika Lawrence, Head, Dept. of Chemistry. The Chairman, Rev. Dr. G. Vazha



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Axasu extended a warm welcome to the newly nominated members.

Approval of the minutes of the Academic Council meeting:

The minute of the last Academic Council meeting held on 11th December 2021 was read by the secretary, Dr. Sutapa Roy, and was unanimously approved by the council members. It was proposed by Dr. Neelanjana Pathak and seconded by Dr. Ramendra Prasad Gha.

Approval of the minutes of the Standing Committee meeting:

The secretary also read out the minutes of the Standing Committee meetings held on 16th March 2022 and 14th September 2022. It was approved by the members and was proposed by Dr. Pramod Chaitnya and seconded by Dr. Vishwas Patel.

Approval of UG I & II semester syllabus and UG II year syllabus in accordance with NEP:

The Chairman briefed the members that the syllabus which was followed in the annual pattern for UG-I year in accordance with NEP has been incorporated into the semester pattern from session 2022-23. He further added that paper I of the annual pattern (NEP) will be taught in the UG I semester and paper-II will be included in the UG II semester. He further pointed out that since the elective paper carries only 4 credits compared to a major/minor paper (6 credits), few units will be deleted from the syllabus for the elective papers.

The Chairman asked the Heads of the UG and PG departments to update the members about the modifications made in the UG-II year syllabus, approved by the respective BOS. The HODs presented unitwise additions or changes in the UG syllabus for consideration:



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Dr. Reeta Chauhan, Head, Department of Economics briefed the members about the modifications, she briefed the members that the topic 'Grasp of Economics Policies of Statehood: Sabha Parv of Book II of Mahabharat' has been added in Paper-II, Unit-5 in BA II year. It was proposed by Dr. Mandira Kax and seconded by Dr. R.P. Ojha.

Dr. Tuhina Johari, Head, Department of Political Science gave an overview of the syllabus of VG-II year and informed that no changes have been made in the syllabus. Dr. Pramod Chaitanya proposed and Dr. Neelanjana Pathak seconded it.

Dr. Neelanjana Pathak, Department of English informed the members of the council that there are no changes in the syllabus of Major/Minor in English, so the department will consider the same syllabus according to NEP. It was proposed by Dr. Tuhina Johari and seconded by Dr. Laxmikant Vaidya.

Dr. R.P. Ojha, Head, Department of Hindi briefed the members about the BA-II year syllabus of Hindi & informed them that in Paper-I, Unit-3 'संस्कृत-व्याकरण-इति गौडि-प्रश्न' and in Paper-II, Unit-1 'ईश्वरदेवता' are the topics which have been introduced. It was proposed by Dr. Pramod Chaitanya and seconded by Dr. Reeta Chauhan.

Dr. Mandira Kax, Head, Department of Mathematics informed the members that the BOS had minutely undergone the syllabus after which it was approved without any change. It was proposed by Dr. Smarika Lawrance & seconded by Dr. Sonali Nigam.

Dr. Pramod Chaitanya, Head, Department of Physics briefed the members about the syllabus and highlighted the additions made in the syllabus, which included the topics 'Conditions necessary for interference' in Unit-3 'Double refraction' in Unit-5 of Paper-I, and 'Integral and differential forms of Faraday's law' in Unit-4 of Paper-II. He further mentioned that four practicals have been added i.e. Study of laser behaviour and T. to ...



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loss and measurement of low resistance. He further added that a minor addition has been made in Unit-1 of the Vocational Course. It was proposed by Dr. Mandira Kar and seconded by Dr. Neelanjana Pathak.

In absence of Dr. Siby Samuel, Head, Department of Computer Science, Mrs. Sukhvinder Kaur Malia informed the members that a paper 'Programming using C++ and data structure' has been added to the BCA II semester syllabus. She further briefed the members about the certificate programs of B.Sc., B.A. and B.Com I & II semesters. She further gave an overview of the diploma programmes conducted for B.Sc., B.A. and B.Com II year. It was proposed by Dr. Sonal Rai and seconded by Dr. Sonali Nigam.

Dr. Smarika Lawrance, Head, Department of Chemistry briefed the members about the syllabus approved by the BOS. Dr. L.K. Pandey suggested that 'Biochemistry' topics could be included in the syllabus. Dr. Pramod Chaitanya suggested that the 'Zeroth law of thermodynamics' could be added to the syllabus as well. It was proposed by Dr. Laxmikant Pandey and seconded by Dr. Rashmi Patrao.

Dr. Sonali Nigam, Head, Department of Botany and Microbiology informed the members that no changes were made to the B.Sc. II year syllabus. Dr. Sonal Rai suggested that since 'Preparation of perfumes' is a part of the B.Sc. II year Practical, hence marketing strategies could be included for entrepreneurship development. The Chairman enquired, whether there is any scope for the addition of IT aspects in Microbiology, to which Dr. Sonali Nigam responded that DNA barcoding and online demonstration of biological databases could be included in the syllabus. It was proposed by Dr. Pramod Chaitanya and seconded by Dr. Laxmikant Pandey.

Dr. Priyanka Sinha, Head, Department of Zoology gave an overview of the syllabus and informed the members that three practicals have been added i.e. 'Semin analysis' and exercise on 'stern count', 'MTT Assay using ELISA'.



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Dr. Laxmikant Pandey, Head, Department of Biotechnology informed the members that in B.Sc. I semester Unit-1 has been reshuffled and in Unit-2 the topic 'Extracellular matrix' was added. The Chairman enquired, about the reshuffling in Unit-1, Dr. Laxmikant Pandey informed that in order to maintain the continuation of topics in the syllabus such changes have been introduced. The Chairman asked about the uniqueness of B.Sc. II year syllabus, to which he replied that 'Isolation of DNA from bacteria, plant and fungus has been included in practical so that the students have exposure to the extraction of DNA which they study in theory. It was proposed by Dr. Smarika Laxnance and Dr. Sonal Rai seconded it.

Dr. Rupali Ahluwalia, Head, Department of Commerce, gave an overview of the B.Com II year syllabus and informed the members that the NEP syllabus with no changes is being followed. The Chairman asked whether any practicals have been included in the syllabus to which Dr. Rupali Ahluwalia replied that hands-on exposure is not included but for the financial papers corporate organizations and CA's could be contacted to give input sessions. It was proposed by Dr. R.P. Ojha and seconded by Dr. Neelanjana Pathak.

Dr. Rashmi Patra, Head, Department of Management informed that there were no additions to the syllabus. The Chairman enquired about any practical element added to the syllabus. She further informed that the students are being sent for internships at Stock trading companies. Dr. Rupali Ahluwalia suggested that since market research digital tools are an upcoming area hence that could be incorporated as a part of the syllabus. It was proposed by Dr. Tuhina Johri and seconded by Dr. Rupali Ahluwalia. The full syllabus of NEP approved with additions.



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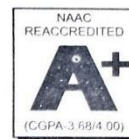
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AGENDA NO. 4 (Approval of UG I and II semester syllabus and II year syllabus as per NEP)

Endorsement of Approval from Various Boards of Studies in the Academic Council: Approved Courses for the Academic Year 2022-23

The academic year duly approves the courses for UG II year NEP and UG I and II semester NEP for the year 2022-23

BCA curriculum: Computer Fundamentals, Programming and Problem Solving through 'C', and their respective labs. Data Analysis and Visualization using Spreadsheets, Programming Using C++ and Data Structures, Operating Systems, Multimedia and Animation, Data Communication and Computer Networks, Database Management Systems using PL/SQL, Internet Applications using Java, and the Internet of Things, all accompanied by practical lab experiences.

Bachelor of Science (B.Sc.) Computer System Architecture (theory and lab); Programming Methodologies & Data Structures (theory and lab); Object-Oriented Programming with Java (theory and lab); Computer Networks & Information Security (theory and lab); Fundamentals of Chemistry (theory); Analytical Processes and Techniques (practical); Fundamentals of Chemistry (Elective); Analytical Chemistry (theory and elective); Organic Qualitative Analysis, Reactions and Synthesis (practical); Reactions, Reagents and Mechanisms in Organic Chemistry; Transition Elements, Chemi-energetics, Phase Equilibria; Applied Botany (Minor/Elective); Applied Botany Practical; Tools and Techniques in Industrial Microbiology (Major); Basic Botany (Minor/Elective); Fundamentals of Industrial Microbiology (Major); Application of Industrial Microbiology (Major); Physiology and Biochemistry of Microbes (Major); and Industrial Botany (Minor/Elective).

B.Sc. Zoology Animal Diversity: Non-Chordata (theory and practical); Cell Biology, Reproductive Biology and Development Biology (theory and practical); Diversity of Chordates and Comparative Anatomy (theory and practical); Physiology and Biochemistry (theory and practical); Mechanics and General Properties of Matter (theory and practical); Thermodynamics and Statistical Physics (theory and practical); Non-Conventional Energy Sources (Open Elective); Waves and Optics (theory and practical); Electricity, Magnetism and Electromagnetic Theory (theory and practical); Cell Biology and Biochemistry (theory); Microbiology and Immunology (theory); Basic Molecular Biology (Major and lab work); and Recombinant DNA Technology (Major and lab work).

B.Sc. Maths Algebra, Vector Analysis and Geometry (Major and Elective); Calculus and Differential Equations (theory and elective); Advanced Calculus and Partial Differential Equations (Minor); and Abstract Algebra and Linear Algebra (Major).

Bachelor of Arts (BA) : Introduction and Functions of Language; English Language and Foundation; Study of Prose; Study of Fiction; Communicative English; Hindi Kavy (Paper I); Hindi Sahitya (Elective); Prayojanmoolak Hindi Parichay evam Vividha Roop (Major/Minor and Elective); Karyaleen Hindi evam Bhasha Computing (theory and elective); Hindi Gadh (Year II); Anuvad Vigyan (Year II); Hindi evam Computer Anupurak (Year II); Idea of Bharat (theory and elective);


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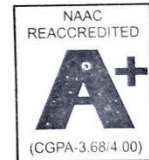
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History of Ancient India (From Early to 1205 AD); History of Medieval India (From 1206 to 1739 AD); History of Modern India (From 1740 to 1947 AD); Micro Economics (theory and elective); Indian Economy (theory and elective); Macro Economics (Year II); Money, Banking and Public Finance (Year II); Political Theory (theory and elective); Indian Constitution (theory and elective); Western Political Thought (Year II); and Indian Political Thinkers (Year II).

Bachelor of Commerce (B.Com): Financial Accounting (theory and elective); Business Organization; Banking and Insurance I and II; Advertising and Sales Promotion I and II; Business Economics I and II; Business and Vedic Mathematics I and II; Data Processing Software I (theory and practical); Business Regulatory Framework; Business Communication; Corporate Accounting; Cost Accounting; Business Statistics; Principles of Management; Corporate Law; Applied Economics; Financial Market Operations; Introduction to ASP.NET and C# (theory and practical); Human Resource Management; Organizational Behavior; Marketing Management; Marketing Research; Financial Management; and Financial Market and Financial Services.

Business Administration (BBA) courses Group A Principles of Management (Paper I), Communication Skills (Paper II). Group B Micro Economics (Paper III), Business Statistics (Paper IV). Group C Financial Accounting (Paper V), Business Mathematics (Paper VI)

Foundation courses include Bhasha aur Sanskriti; English Language and Indian Culture; Environmental Education; Yogic Science; Startup and Entrepreneurship; and Women Empowerment.

Master of Science (M.Sc.) programs, introduced options in Software Engineering and Modeling, Information Security, and Big Data Analytics.


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Minutes of Academic Council Meeting

2023-2024



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**Extracts of
Academic Council Minutes
2023-2024
Endorsing the decision of
Board of Studies 2023-2024**



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ACADEMIC COUNCIL MEETING DATE :- 21st October 2023 (Saturday)

The meeting of the Academic Council members of St. Aloysius' College was held on 21st October 2023 at 10:30 am. in the Conference room. The following agenda were discussed during the meeting.

- (1) Opening Prayer
- (2) Approval of the minutes of the last Academic Council meeting.
- (3) Approval of the minutes of the Standing Committee meeting.
- (4) Approval of syllabus:

(I) UG III Year:

- Department of Economics
- Department of Political Science
- Department of English
- Department of Hindi
- Department of History
- Department of Mathematics
- Department of Physics
- Department of Computer Science
- Department of Chemistry
- Department of Botany & Microbiology
- Department of Zoology
- Department of Biotechnology
- Department of Commerce
- Department of Management.

(II) Minor Paper: System Analysis and Engineering in BCA IV Semester.

(III) Elective Papers: (i) Basics of Artificial Intelligence in BCA IV Semester
(ii) Block Chain Technology in BCA III Semester.



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(iii) React JS in BCA IV Semester
(iv) Research Methodology in M.Sc.
Biotechnology III Semester.

- (5) Discussion on PG Comprehensive Viva-Voce M.A.
English II & IV Semester.
- (6) Approval of Vocational Course paper level 2 and 3
for UG III Year.
- (7) Approval of Add-on Course:
 - (i) Towards Better Communication Honing LSRW Skills
in English
 - (ii) French Learning Program
 - (iii) ~~अभ्यास~~ अभ्यास
 - (iv) Fun and Fact with Food.
- (8) Proposal to start new UG course & syllabus
approval - B.Sc. in Nanotechnology & B.Sc. in
Pharmaceutical Chemistry.
- (9) Approval / Updation of Examiners panel.
- (10) UG IV Year (Honors) from 2024-25 (NEP)
- (11) Any other matter with the permission of the Chair
- (12) Vote of thanks & Concluding prayer.

Following members were present for the meeting:

- (1) Principal (Chairman): Rev. Dr. G. Vazhan Anasu
- (2) Dept. of Mathematics: Dr. Mandira Kar Vardiy
- (3) Dept. of Botany: Dr. Sonali Nigam
- (4) Dept. of Biotechnology: Dr. Laxmikant Pandey
- (5) Dept. of Zoology: Dr. Priyanka Sinha



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(6) Dept. of Computer Science : Dr. Siby Samuel

(7) Dept. of Physics : Dr. Pramod Chaitanya

(8) Dept. of English : Dr. Neelanjana Pathak

(9) Dept. of Hindi : Dr. Ramendra Prasad Ojha

(10) Dept. of Economics : Dr. Reeta Chouhan

(11) Dept. of Political Science : Dr. Tukina Johri

(12) Dept. of History : Dr. Manju M. Solomon

(13) Dept. of Commerce : Dr. Rupali Ahluwalia

(14) Dept. of Management : Dr. Rashmi A. Patra

(15) Dept. of Chemistry : Dr. Smarika Lawrence

Four Teachers of the College

(16) Dept. of Arts : Dr. Vishwas Patel

(17) Dept. of Commerce : Dr. Sonal Rai

(18) Dept. of Physics : Dr. Nisha Pandey

(19) Dept. of Management : Dr. Shraddha Shrivastava

Members Nominated by Governing Body

(20) Educationist : Prof. N. G. Pendse

(21) Industrialist : Mr. Prem Dubey

(22) Law : Justice Prakash Naik



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- (23) Commerce/Entrepreneur: Mr. Pradeep Chaddha *Pradeep*
- (24) University Nominee: Prof. Gajendra Singh ONLINE
- (25) University Nominee: Dr. Vikram Prasad Pandey ONLINE
- (26) University Nominee: Prof. Ajneay Pandey ABSENT
- (27) Controller of the Examination: Dr. Mita Darbari *Mita*
- (28) Member Secretary: Dr. Sutapa Roy *Sroy*



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Dr. Neelanjana Pathak, Head of the Department of English, informed the council members that the majority of students opted for Group A and that no changes had been made to the UG III Year syllabus. The syllabus of the Functional English and Foundation Course is to be followed without any changes. The chairman enquired about any local literature that has been added. He further suggested that local culture must be added to the syllabus, particularly in Arts courses. It was proposed by Pramod Chaitanya and seconded by Dr. Tuhina Jaisri.

Dr. R.P. Ojha, Head, Department of Hindi gave an overview of the Group A and B of the BA-III Year syllabus of Hindi and informed that in DSE Group A topics have been added in units 4 and 5 of Paper-1 and in DSE Group B topics added in unit 3 of Paper-I. He further mentioned that topics have been added in unit 1 and 4 of Functional Hindi. It was proposed by Dr. Sonali Nigam and seconded by Dr. Tuhina Jaisri.

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Dr. Manju Maria Solomon, Head of the Department of History, informed the members that the students chose Group B and that no changes were made to the syllabus. The Chairman insisted on including history relating to the Mahakoshal region in the syllabus. Dr. Manju Maria Solomon informed the members that it is already in the syllabus. It was proposed by Dr. Tubina Johri and seconded by Dr. Rashmi Patras.

Dr. Rupali Ahluwalia, Head of the Department of Commerce, informed the members that all three Groups A, B and C are available to students pursuing B.Com III Year Major. She also provided an outline of the syllabus for minor and open electives. She further added that an MOU has been signed with the CFA firm for internship and training. It was proposed by Dr. Sonali Nigam and seconded by Dr. Neelanjana Pathak.

Dr. Rashmi Patras, Head, Department of Management, informed the members that all the three Groups A, B and C are offered to the students and that there

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were no additions in the syllabus for BBA-III Year. She further added that for DSE-I Group C internships, local tie-ups have been made, as well as through Interchala and HDFC Bank, among others. It was proposed by Dr. Rupali Phulewalia and seconded by Dr. Siby Samuel.

Dr. Mandira Kar, Head of the Department of Mathematics, informed the members that Group B has numerous applications, including computational mathematics. She further stated that the regional topic 'Contribution of Brahmagupta' has been added. It was proposed by Dr. Smarika Lawrence and seconded by Dr. Pramod Chaitanya.

Dr. Pramod Chaitanya, Head of the Department of Physics, provided an overview of the B.Sc. III Year syllabus and informed the members that Group A is being offered rather than Group B because Group B lacks practical aspects/components. He also mentioned the additions to the syllabus, which included two practical - Zeeman effects and GM Counter, as these are a part of the theory. It was proposed by Dr. Reeta Chouhan and seconded

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by Dr. Manju Maria Solomon.

Dr. Siby Samuel, Head of the Department of Computer Science, informed the members that both Group A and B of the BCA - III Year are available to students. She further added that additional practicals in PHP and MySQL has been introduced. She informed the members about the introduction of a new elective 'Data Science and Machine Learning' in BCA III Year. In the third year of B.Sc., the NEP syllabus is followed exactly. Some practicals regarding the internet and its applications have been introduced to the B.A./B.Com III Year curriculum. It was proposed by Dr. Pramod Chaitanya and seconded by Dr. Laxmi Kant Pandey.

Dr. Smarika Lawrance, Head of the Department of Chemistry, informed the members that Group B of the B.Sc. III year syllabus was offered to the students instead of Group A because the content in Group A is trivial and covers the fundamentals of solution preparation and instrumentation, which are already covered in the B.Sc. I and II semesters. She

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also stated that the NEP syllabus is followed; however, new practicals have been implemented to improve practical abilities. The Chairman recommended that the Heads should focus on improving skills among the students, therefore all groups should be offered to them. It was proposed by Dr. Pramod Chaitanya and seconded by Dr. Tuhina Johri.

Dr. Sonali Nigam, Head of the Department of Botany and Microbiology, informed the members that the Botany syllabus for B.Sc. III Year has been updated by including 'Ethnomedicinal plant - Digital herbarium' and 'Generation of DNA barcodes for medicinal plants'. She went on to say that in the B.Sc. - III Year Microbiology Group A 'Demonstration of Gel electrophoresis', 'Effect of oxidative stress on bacterial growth', 'Effect of Mutagens on bacterial growth', 'Preparation of herbal pesticide' and 'Study of heavy metal toxicity on microbial diversity' were added. Dr. Rupali Abduwalia advised that 'millet' be included in the syllabus. It was proposed by Dr. Priyanka Sinha and seconded by Dr. Laxmi Kant Pandey.

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Approval of III and IV semester syllabus according to NEP 2020 :-

The Heads of the Departments presented the UG-III & IV semester courses for approval

Dr. Smarika Lawrance, Head, Department of Chemistry stated that the III semester proposed courses include 'Reactions, Reagents and Mechanisms in organic chemistry' (Theory and Elective), along with practicals on 'Organic Qualitative Analysis, Reactions and Synthesis'. The IV semester features 'Transition elements, chemical energetics and Phase equilibria (Theory), accompanied by practical courses focusing on 'Metal Complex preparation', 'Thermochemistry Experiments', and 'Phase equilibrium experiments'. These courses aim to deepen the students' understanding of organic and inorganic chemistry, preparing them for advanced research and industrial applications.

Dr. Sonali Nigam, Head, Department of Botany and Microbiology introduced 'Plant Anatomy' and 'Embryology' as

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the core course and elective in the III semester, while the IV semester will focus on 'Industrial Botany' and its corresponding elective. The courses are designed to provide students with comprehensive knowledge of plant structure and industrial applications, equipping them with the necessary skills for careers in agriculture, research and industry.

Dr. Priyanka Sinha, Head, Department of Zoology informed the members that in the III semester 'Diversity of Chordates and Comparative anatomy' (Major) along with relevant practicals will be offered. The IV semester will cover 'Physiology and Biochemistry' (Minor) supplemented by associated practical work. These courses aim to strengthen the foundational understanding of animal diversity and their biological processes, essential for further studies in zoology and related fields.

Dr. Pramod Chaitanya, Head, Department of Physics proposed 'Waves and Optics' (Major/Minor) for the III

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semester, including its elective and practicals. For the IV semester, the department will cover 'Electricity, Magnetism and Electro-magnetic theory', along with practicals. The curriculum is structured to provide students with in-depth theoretical and experimental knowledge in core areas of Physics.

Dr. Mandira Kar, Head, Department of Mathematics, informed that the III semester will cover 'Abstract Algebra and Linear Algebra' (Major/Minor), and the IV semester will include 'Advanced Calculus and Partial Differential Equations'. These courses are designed to strengthen the mathematical foundation of students, essential for advanced studies in pure and applied mathematics.

Dr. Siby Samuel, Head, Department of Computer Science presented the syllabus of III semester, she proposed 'Data Communication and Computer Networks' and 'Database Management Systems'. In IV semester, new-age subjects such as 'Blockchain Technology', 'E-Commerce' and 'React JS' (Elective) were introduced, along with 'System Analysis and Engineering'.

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semester, while in the IV semester will focus on 'Indian Political Thinkers'. These courses provide a thorough understanding of political ideologies and key features, essential for students interested in governance, policy and political research.

Dr. Rupali Ahluwalia, Head, Department of Commerce proposed the structure of III and IV semesters which includes 'Corporate Accounting', 'Business Statistics', 'Applied Economics', 'Corporate Law', 'Financial Market Operation', 'Principle of Management' and 'Database Management System'. The IV semester will include 'Cost Accounting', 'Advanced Statistics for Research', 'Applied Economics', 'Corporate Law', 'Financial Market Operation', 'Principle of Management' and 'Introduction of ASP, NET and C#'. These courses are designed to prepare students for professional roles in business and corporate world.

Dr. Rashmi Patra, Head, Department of Management, presented

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courses such as 'Human Resource Management', 'Marketing Management' and 'Financial Market and Financial services' in the III semester. The IV semester will introduce 'Organizational Behaviour', 'Marketing Research' and 'Financial Management'. These courses focus on equipping students with managerial skills, crucial for leadership roles in business and corporate environments.

The members reviewed all the proposed courses and unanimously approved them for the academic session 2023-24.

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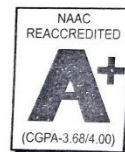
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AGENDA NO. 4 (Approval of syllabus UG III and IV semester and III year as per NEP)

Endorsement of Approval from Various Boards of Studies in the Academic Council: Approved Courses for the Academic Year 2023-24

The syllabus of UG III and IV semester and III year as per NEP for the Bachelor of Science, Bachelor of Arts, Bachelor of Commerce, and Bachelor of Business Administration programs for the academic year 2023-2024.

Bachelor of Science in Chemistry (Semester-based program), III Semester courses *Reactions, Reagents, and Mechanisms in Organic Chemistry (Theory), Reactions, Reagents, and Mechanisms in Organic Chemistry (Elective), and Organic Qualitative Analysis, Reactions, and Synthesis (Practical)*. The IV Semester covers *Transition Elements, Chemical energetics, and Phase Equilibria (Theory), Electives, and practicals on Metal Complex Preparation, Thermochemistry, and Phase Equilibrium Experiments*. **Annual program** III Year *Instrumental Techniques in Chemistry (Major)* and its practicals, along with courses on *Bio-Physical, Bioinorganic, and Organometallic Compounds, and Pharmaceutical and Medicinal Chemistry* with practical sessions to complement the theoretical study.

Bachelor of Science in Botany & IMB (Semester-based program), Third semester covers *Plant Anatomy and Embryology (Minor)* and its elective, fourth semester includes *Industrial Botany (Minor)* and its elective. **Annual program**, III Year includes courses on *Ethnobotany (Minor)* and its elective, along with *Molecular Biology and Genetics of Microbes (Group A Paper I)*, and *Environmental Microbiology and Bioremediation (Group A Paper II)*.

Bachelor of Science in Zoology (Semester-based program): *Diversity of Chordates and Comparative Anatomy (Major)* III Semester, practicals, and. IV Semester, *Physiology and Biochemistry (Minor)*-. **Annual program**, III year *Aquaculture (Group A Paper I)* and *Wild Life Conservation and Management (Group A Paper II)*, Group B *Insect Taxonomy and Applied Entomology, and Ecology, Biodiversity, and Evolution*.

Bachelor of Science in Physics (Semester-based program): III Semester *Waves and Optics (Major/Minor)* and the corresponding elective with practicals. IV Semester covers *Electricity, Magnetism, and Electromagnetic Theory (Major/Minor)* and its practicals, elective **Annual program**, III Year offers *Quantum Mechanics, Atomic and Molecular Physics, and Solid State Physics and Electronics*, along with practical. Group B *Astronomy and Space Physics and Nuclear and Particle Physics*.

Bachelor of Science in Biotechnology (Semester-based program) *Basic Molecular Biology (Major/Minor)* III Semester and *Recombinant DNA Technology (Major/Minor)* IV Semester. **Annual program** III *Industrial Biotechnology and Agriculture Biotechnology* in Group A, Group B *Environmental Biotechnology and Bioinformatics*.


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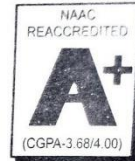
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The Bachelor of Science in Mathematics (Semester-based program) *Abstract Algebra and Linear Algebra (Major/Minor)* III Semester, *Advanced Calculus and Partial Differential Equations (Major/Minor)* IV Semester. **Annual program III**, Group A *Numerical Methods and Scientific Computation (Paper I)* and *Elements of Discrete Mathematics (Paper II)*. Group B *Probability and Statistics (Paper I)*, *Integral Transform (Paper II)*, and *Fundamentals of Boolean Algebra*.

Bachelors of Computer Application (Semester-based program) III Semester *Data Communication and Computer Networks* and *Database Management Systems*, IV Semester *Blockchain Technology, E-Commerce, React JS (Elective), System Analysis and Engineering*, and *Programming using JAVA*. **Annual program**, Group A *Computer Graphics (Paper I)* and *PHP with MySQL (Paper II)*, Group B includes *Data Warehousing and Mining (Paper I)* and *Python Programming*.

Bachelor of Arts (Semester-based program), III Semester *English Study of Prose and Language and Technology (Elective and Minor)*, IV Semester includes *Study of Fiction and Communicative English*. **Annual program** III Year *English Language: Structure and Translation, Indian Diaspora Literature, Indian English Poetry and Drama*, and *Language and Technology (Minor)*.

Bachelor of Arts in Hindi (Semester-based program) III Semester *अनुवाद सिधांत और प्राविधि, हिंदी गद्य* IV Semester *हिंदी और कंप्यूटर अनुप्रयोग* and *अनुवाद विज्ञान*, **Annual program** III Year offers *काव्यांग विवेचन एवं जनपदीय भाषा साहित्य, लोक साहित्य एवं लोक संस्कृति*, and *जन संपर्क माध्यम सिधांत एवं अनुप्रयोग* (Major).

History (Semester-based program), III Semester *History of Medieval India from 1206 to 1739 AD* (Major/Minor), IV Semester focusing *History of Modern India (from 1740 to 1947)*. **Annual program** of *World History (from 1453 to 1870 CE)*, *World History (from 1871 to 1950 CE)*, *History of Freedom Movement in Madhya Pradesh (From 1836 to 1947 CE)*.

Economics (Semester-based program), III Semester *Macro Economics (Major/Minor)* IV Semester *Money, Banking, and Public Finance (Major/Minor)*. **Annual program** *Economics of Growth and Development, Statistics, and Gender Economics (Elective)*.

Political Science (Semester-based program), III Semester *Western Political Thought* (Major/Minor) and its elective, IV Semester on *Indian Political Thinkers*. **Annual program** *India's Foreign Policy, Public Administration (Group A)*, *Comparative World Constitution, International Relations and Contemporary Issues* (Group B), elective *State Politics in India*.

Bachelor of Commerce (Semester-based program) III Semester *Corporate Accounting, Business Statistics, Applied Economics, Corporate Law, Financial Market Operation, Principle of Management, and Database Management System*. IV Semester includes *Cost Accounting, Advance Statistics for Research, Applied Economics, Corporate Law, Financial Market Operation, Principle of Management, and Introduction to ASP.NET and C#*. **Annual program** Group A *Income Tax Law and Practice I, Goods and Service Tax & Custom Duty*, and *Income Tax for Business*, Group B on


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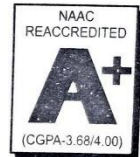
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Marketing Management, Human Resource Management, and Management Accounting. Group C Financial Management, Auditing, Public Finance, Business Ethics and Human Values (Elective), International Business (Elective), Investment Management (Elective), and Environment and Sustainable Tourism (Elective).

Bachelor of Business Administration (Semester-based program) III Semester *Human Resource Management, Marketing Management, and Financial Market and Financial Services* in Groups A, B, and C. The IV Semester includes *Organization Behaviour, Marketing Research, and Financial Management Annual program*, Group A *Human Resource Development, Employee Relations and Compensation Management, Functional Management, and Retail Management (Elective)*. Group B *Consumer Behaviour and International Marketing*, while Group C covers *Security Analysis and Portfolio Management, International Finance, and Working Capital Management*.

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