

DEPARTMENT OF
MATHEMATICS& STATISTICS

Board of Studies Meeting
(Mathematics)

27-08-2024

(ZOOM PLATFORM)



SRI Y.N.COLLEGE(Autonomous), Narsapur-534275.

Affiliated to AadikaviNannaya University

Accredited by NAAC A⁺ Grade (IV Cycle)

Department of Mathematics& Statistics

Board of studies for 2024-25

Chairman: Dr G.S.V.S Sai Baba,M.Sc,M.Phil, Ph.D
Head of the Department of Mathematics& Statistics
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Faculty members:

- 1) Sri.Ch.Balaraju, Lecturer in Mathematics
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- 2)Smt.P.K.Parameswari, Lecturer in Mathematics
Mobile No:9000041808
- 3)Smt.S.Kusuma,Lecturer in Mathematics
Mobile No:9490517291
- 4)Sri.Ch.VenkateshGowd,Lecturer in Mathematics
Mobile No:9030377933
- 5) SmtA.S.L.Bhavani, Lecturer in Mathematics
Mobile No: 9640031952

University Nominee: Dr B. Jagan Mohan Rao
Lecturer in Mathematics, YVNR Govt. Degree College,
Kaikaluru, W.G.Dt
Mobile No: 8008582525
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Subject Experts:

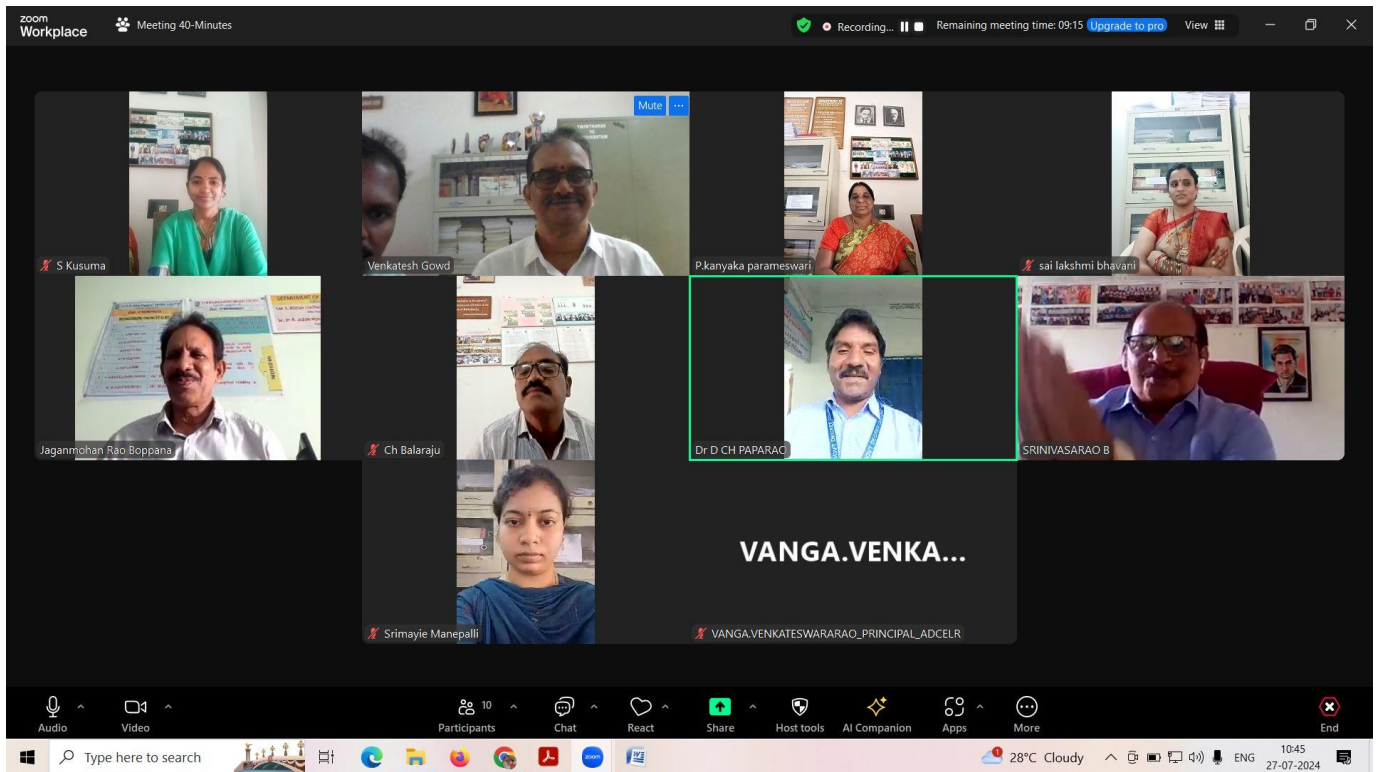
- 1)Sri B.Srinivasa Rao, M.Sc, M.Phil
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Alumni member: B Narsimha Rao, Lecturer in Mathematics
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Clerk, Union Bank of India, Narsapur
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BOS and Staff members of Mathematics

Answer any FIVE questions. Choosing atleast TWO questions from each section. Each question carries EIGHT marks. 5x8M = 40M

SECTION – II

- Prove that in a group G , for $a, b, x, y \in G$ the equation $ax=b$ and $ya=b$ have unique solutions.
- Define Order of an element of a group. In a group G for $a, b \in G$, $O(a)=5$, $b \neq e$ and $aba^{-1} = b^2$, then find $O(b)$.
- Prove that a non-empty finite subset of a group G which is closed under multiplication is a subgroup of G .
- If H is a subgroup of group G , then Prove that there is one to one correspondence between the set of all distinct left cosets of H in G and the set of all distinct right cosets of H in G .
- Prove that a subgroup H of a group G is a normal subgroup of G iff the product of two right cosets of H in G is again a right coset of H in G .

SECTION – III

- If H is a normal subgroup of G then prove that the set $\frac{G}{H}$ of all cosets of H in G with respect to coset multiplication is a group.
- Let G be a group and G^1 be a non empty set. If there exists a mapping f of G onto G^1 such that $f(ab)=f(a)f(b)$ for $a,b \in G$, then prove that G^1 is a group.
- Prove that the set of all automorphisms of a group G is a group with respect to compositions of mappings.
- If $f=(1\ 2\ 3\ 4\ 5\ 8\ 7\ 6)$, $g=(4\ 1\ 5\ 6\ 7\ 3\ 2\ 8)$ are cyclic permutations, then show that $(fg)^{-1}=g^{-1}f^{-1}$.
- Prove that a group of prime order is cyclic.

Discussing about Model paper

2024-25

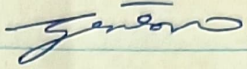
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Board of Studies meeting held on
27-07-2024 at 10:15 AM in the department of
Mathematics in online mode (Zoom) platform.

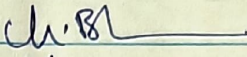
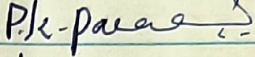
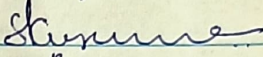
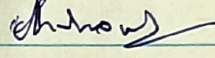
AGENDA:

1. To prepare the syllabi and model question papers for the degree I, II, III and IV years for the academic year 2024-25 by making appropriate modifications (above or equal to 20%) to the University syllabus.
2. To continue the ratio of CIA to SEE 40:60 and the division of marks among the sections in CIA and SEE as approved in the BOS meeting of previous Academic year 2023-2024.
3. To prepare the syllabi and model question papers for Add-on courses, Certificate courses for the academic year 2024-2025.
4. To prepare syllabus for Bridge course for the newly admitted students.
5. To prepare course outcomes, programme outcomes and programme specific outcomes for the degree I, II, III & IV years for the academic year 2024-2025.
6. To discuss the modalities for conducting the Social Immersion Programme (Community Service Project) at the end of the 1st year degree, short-term Internship/Project at the end of second year degree and Semester Internship during V (or) VI semester in III year degree course.
7. To discuss the modalities and topics for conducting Seminars/Workshops & Faculty Development Programmes (FDP).
8. To discuss about online courses to be done by the students and staff.
9. To discuss about staff research work and publications in the UGC recognised journals.
10. To discuss about getting functional MOUs with the industry.
11. To discuss the feasibility of developing collaborations with other Colleges.
12. To evolve a plan of action for the Consultancy activity.
13. To discuss about ICT enabled teaching to the students.
14. To discuss to utilise Media Centre for delivering lectures online by the teaching staff members.
15. Any other item with permission of the chair.

Members present :

chairman : Dr. GSVS Saibaba, HOD 

Faculty members :

- | | | |
|----|------------------------|---|
| 1. | Sri ch. Bala Raju |  |
| 2. | Smt P.K. Parameswari |  |
| 3. | Smt S. Kusuma |  |
| 4. | Sri ch. Venkatesh Gowd |  |
| 5. | Smt A.S.L. Bhavani | A.S.L. Bhavani |

University Nominee :

Dr. B. Jagan Mohan Rao

Lecturer in Mathematics

YVNR GDC, Kaikaluru, W.G.Dt

Subject Experts :

1. Sri. B. Srinivasa Rao, M.Sc M.phil
Lecturer in Mathematics
GDC, Ravulapalem, E.G.Dt
2. Dr. D. ch. papa Rao, M.Sc, ph.D
HOD of Mathematics
GDC, Kothapela, E.G.Dt

Alumni Member :

Sri B. S. Narasimha Rao

Lecturer in Mathematics

Sri YN. D.J College, Narsapur.

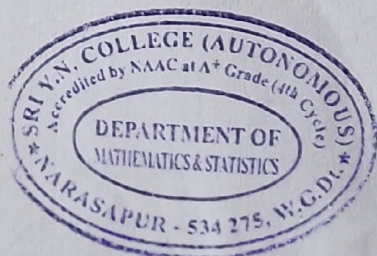
Industry :

Sri ch. chandra Sekhar Rao

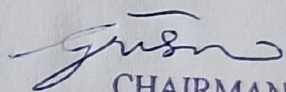
clerk, UBI, Narsapur.

Resolutions:

1.
 - a) It is resolved to adopt and implement new I B.Sc. Major & Minor Mathematics syllabus(w.e.f 2023-24), II B.Sc. Major & Minor Mathematics syllabus(w.e.f 2024-25) as prescribed by APSCHE and Adikavi Nannaya University, Rajamahendravaram.
 - b) It is resolved to approve I,II&III B.Sc., Mathematics syllabus(Theory, Model Question paper, Question banks, Practical Model Question paper),2024-25 as prescribed by the APSCHE and ANUR, by making appropriate modifications (above or equal to 20%) to the University syllabus NEP – 2020.
 - c) It is resolved to approve the syllabus of **"Analytical Skills"** as the Skill Development Course in the I Semester for all I year UG programmes w.e.f. the academic year 2023-24 as prescribed by APSCHE and ANUR.
2. It is resolved to continue the ratio of CIA and SEE from the present ratio 25:75 to 40:60 from the admitted batch 2023-2024.
3. It is resolved to approve I B.Sc., Semester-II Mathematics Certificate Course syllabus (Theory and Model Question paper), i.e., **"Business Statistics"** w.e.f the academic year 2023-2024.
4. It is resolved to approve the Bridge Course Syllabus for newly admitted Batch for the academic year 2023-2024.
5. It is resolved to approve Course Outcomes (CO's), Programme Outcomes (PO's) and Programme Specific Outcomes (PSO's) for the syllabi of degree I, II & III years for the academic year 2024 – 2025.
6.
 - a) It is resolved through discussion, designed the procedure to be adopted for conducting the Social Immersion Programme (Community Service Project) at the end of the I year degree for the academic year 2024-2025 as per the guidelines given by APSCHE.
 - b) It is resolved through discussion, designed the procedure to be adopted for conducting the Social Immersion Programme i.e., Internship/Project at the end of the II year degree for the academic year 2024-2025 as per the guidelines given by APSCHE.
 - c) It is resolved through discussion, designed the procedure to be adopted for conducting the Social Immersion Programme i.e., Internship during VI semester for III year degree students for the academic year 2024-2025 as per the guidelines given by APSCHE.
7. Discussed and resolved to conduct a Seminar/workshop.
8. It is resolved that the online courses like MOOCS, SWAYAM and courses offered by Spoken tutorial should be done by the Staff and students.
9. Discussed regarding the staff publications. It is resolved that the staff members should make good effort to have their publications in the UGC Care List journals, Web of Science and Scopus Indexed Journals.
10. It is resolved to make functional MoU's with various industries and make field visits by sending the students to companies and also invite industry people to the college for giving awareness to the students on various aspects like skill enhancement and job opportunities etc.
11. It resolved to evolve a plan of action for the consultancy activity by approaching the business organizations in the district.
12. It is resolved to use ICT enabled Tools for effective teaching to the students.
13. It is resolved to utilize Media centre for delivering lectures online by the teaching staff members.
14. It is resolved to authorize the Chairman, Board of Studies to strengthen the syllabus and model papers of theory and practical examinations keeping in view the latest developments in consultation with other members of the department. Any further guidelines/instructions from APSCHE/ University are to be adopted as communicated.



APPROVED


CHAIRMAN
BOARD OF STUDIES
DEPARTMENT OF MATHEMATICS & STATISTICS
Sri Y.N. College (Autonomous)
Accredited by NAAC at A+ Grade (4th Cycle)
NARSAPUR - 534 275