



NANDHA
Engineering College, Erode -638 052

(An Autonomous Institution, Affiliated to Anna University Chennai and Approved by AICTE New Delhi)

MINUTES OF THE 8th BOARD OF STUDIES MEETING

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| Name of the Body | Board of Studies |
| Name of the Board | Agricultural Engineering |
| Meeting No. | 08 |
| Date & Time | 01.06.2024, 10.30 am |
| Mode | Offline Mode (MBA Seminar Hall) |
| Academic year | 2023-24 |



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Minutes of 8th Board of Studies Meeting (BoS) held on 01.06.2024

The 8th Board of Studies (BoS) meeting was held on 01.06.2024 by 10.30 am at MBA Seminar Hall, Nandha Engineering College. The members attended the meeting are given in **Annexure I**.

Dr. P. Komalabharathi, Chairman (BoS) and Associate Professor & HoD, Agricultural Engineering chaired the meeting, welcomed all the members to the 8th BoS meeting followed by introduction of the members. After the brief introduction, the agenda items listed below were taken up for discussion and the following resolutions were passed.

| AGENDA | |
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| | Welcome Address and Introduction of members. |
| Item – 8.01 | Review of Institute Vision and Mission. |
| Item – 8.02 | Review of Department Vision, Mission, PEOs and PSOs. |
| Item – 8.03 | Review of the 7 th BoS Meeting Minutes and Action Taken Report. |
| Item – 8.04 | Review of the PAC and DAB meeting minutes and Action Taken Report. |
| Item – 8.05 | Review of Curriculum (R22) for 1 st to 4 th semesters. |
| Item – 8.06 | Review and Approval of Curriculum and syllabi for 5 th and 6 th semester (R22) with CO – PO/PSO Mapping. |
| Item – 8.07 | Review and Approval of Verticals – Honor, Elective (PEC & OEC) and Minor Courses (R22). |
| Item – 8.08 | Review and Approval of One Credit Courses / Value Added Courses. |
| Item - 8.09 | Review on attainment of 2023 passed out students and target attainment fixed for next batch. |
| Item – 8.10 | Approval of Panel of Examiners. |
| Item – 8.11 | Discussion on Strategic Plan and activities. |
| Item – 8.12 | Discussion on Teaching Learning Process. |
| Item – 8.13 | Review on best practices in department. |
| Item – 8.14 | Discussion on students' trainings and exposure to meet industry standards. |
| Item – 8.15 | Any other matter. |



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The proceedings of BoS started. The discussions and resolutions are recorded as follows:

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| | Welcome note and introduction of members |
| | Dr. P. Komalabharathi, Chairman BoS introduced the members and welcomed all followed by a brief note on functioning of BoS. |
| Item 8.01 | Review of Institute Vision and Mission. |
| Discussion | <p>The vision and mission of the Institute were presented by Dr. P. Komalabharathi.</p> <p>VISION To be an institute of excellence providing quality Engineering, Technology and Management education to meet the ever-changing needs of the society.</p> <p>MISSION</p> <ul style="list-style-type: none"> To provide quality education to produce ethical and competent professionals with social responsibility. To excel in the thrust areas of Engineering, Technology and Entrepreneurship by solving real- world problems. To create a learner centric environment and improve continually to meet the changing global needs. |
| Resolution | All the members noted the Institute's vision and mission. Resolved to record the proceedings. |
| Item 8.02 | Review of Department Vision, Mission, PSOs and PEOs. |
| Discussion | <p>Dr. P. Komalabharathi presented the department vision, mission, PSOs and PEOs as follows:</p> <p>Vision</p> <ul style="list-style-type: none"> To foster academic excellence by imparting knowledge in Agricultural Engineering to meet the ever-growing needs of the society. <p>Mission</p> <ul style="list-style-type: none"> To provide quality education to produce agricultural engineers with social responsibility. To excel in the thrust areas of agricultural engineering to identify and solve the real-world problems. To create a learner-centric environment by upgrading knowledge and skills to cater the needs and challenges of the society. <p>PEOs</p> <ul style="list-style-type: none"> PEO1: Core Competency: Successful professional with core competency and inter-disciplinary skills to satisfy the Industrial needs. PEO2: Research, Innovation and Life-long Learning: Capable of identifying technological requirements for the society and providing innovative solutions to real time problems. PEO3: Ethics, Human values and Entrepreneurship: Able to demonstrate ethical practices and managerial skills through continuous learning. |



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| | <p>PSOs</p> <ul style="list-style-type: none"> • PSO1: Design, analyze and apply the knowledge gained on agricultural machinery, tools, implements and production technologies to increase crop production, improve land use, soil nutrient and conserve resources like water, fertilizer and energy. • PSO2: Apply the comprehensive knowledge of engineering properties of agricultural products for upgrading the unit operation and developing innovative process, value-added products, and advanced engineering technologies to meet the challenges in agriculture. |
| Resolution | All the members resolved vision, mission, PSOs and PEOs of the department. |
| Item 8.03 | Review of the 7 th BoS Meeting Minutes and Action Taken Report. |
| Discussion | <p>The salient decisions taken in the 7th BoS meeting and action taken on the following point were presented.</p> <ul style="list-style-type: none"> • The Institute's vision, mission and department's vision, mission, Program Educational Objectives (PEOs) and Program Specific Outcomes (PSOs) were reviewed. • The syllabi for the 3rd and 4th semesters, along with the Course Outcome (CO's) - Program Outcome (PO's)/Program Specific Outcome (PSO's) mapping, were proposed for approval in the meeting, and the recommendations were modified accordingly. • The previous batch (2017-21) attainment was fixed as 65% and all POs were attained as well. The target fixed for Batch 18-22 was 65 % and achieved except PO8 was reviewed and approved. • The review of examiner panel members and the one-credit courses was proposed and approved. • Honor and Minor courses for R17 was discussed and approved. • The R22 curriculum for 1st to 8th semesters was presented and discussed in the meeting and suggestions were modified. • The expert's suggestions were considered and modified syllabi of the 1st to 4th semesters, along with the Course Outcomes (CO's), Program Outcomes (PO's), and Program Specific Outcomes (PSO's) and mapping of all these courses were reviewed. The members have appreciated the efforts taken to implement the suggestions. |
| Resolution | Resolved to approve the Action Taken Report of 7 th BoS meeting. |
| Item 8.04 | Review of the PAC and DAB meeting minutes and Action Taken Report. |
| Discussion | PAC and DAB meetings were conducted for the academic year 2023-24: |



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| | <table border="1"><thead><tr><th>Meeting</th><th>Date</th></tr></thead><tbody><tr><td>PAC 1</td><td>07.08.2023</td></tr><tr><td>PAC 2</td><td>05.10.2023</td></tr><tr><td>PAC 3</td><td>01.03.2024</td></tr><tr><td>PAC 4</td><td>06.04.2024</td></tr><tr><td>DAB 1</td><td>04.01.2024</td></tr><tr><td>DAB 2</td><td>24.05.2024</td></tr></tbody></table> <p>Salient points discussed in PAC</p> <ul style="list-style-type: none">• The framing of the draft syllabus for the 5th and 6th semesters was discussed.• Members were allotted to frame syllabus for courses from 5th to 8th semesters, vertical, open elective and minor courses in R22.• The attainment analysis for CAT 1 and CAT 2 for the Batch of 2022 and 2023 were discussed, and actions for slow and advanced learners were reviewed.• Feedback collected from the Class Committee meeting, parents 'meeting, and mid-semester assessments was discussed.• The completion of NPTEL courses was also addressed.• PBL (Project-Based Learning) and project works of final year students were discussed.• The students' co-curricular and extracurricular activities, as well as training programs, were discussed. <p>Salient points discussed in DAB</p> <ul style="list-style-type: none">• The 5th and 6th -semester syllabi were discussed, and suggestions were included.• The syllabus for vertical, open elective and minor courses were reviewed by both academic and industrial experts and the suggestions were included.• Research and Development activities of the department were discussed.• CAT analysis of the respective academic years I, II, III, and IV years were presented and action taken to attain the target was discussed.• End semester Result analysis of the 2020 and 2021 batch students for the Academic year (2023 – 2024 Odd semester) was presented and action to be taken was discussed to improve the attainment levels.• The completion of NPTEL courses was discussed. A total of 53 students cleared NPTEL courses in the Jan – Apr 2024 Cycle.• Placement activities for 2020 and 2021 batch students was discussed. <p>The suggestions given by PAC and DAB members were reviewed and approved in the meeting.</p> | Meeting | Date | PAC 1 | 07.08.2023 | PAC 2 | 05.10.2023 | PAC 3 | 01.03.2024 | PAC 4 | 06.04.2024 | DAB 1 | 04.01.2024 | DAB 2 | 24.05.2024 |
|------------|--|---------|------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|------------|
| Meeting | Date | | | | | | | | | | | | | | |
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| PAC 3 | 01.03.2024 | | | | | | | | | | | | | | |
| PAC 4 | 06.04.2024 | | | | | | | | | | | | | | |
| DAB 1 | 04.01.2024 | | | | | | | | | | | | | | |
| DAB 2 | 24.05.2024 | | | | | | | | | | | | | | |
| Resolution | Resolved to record the proceedings. | | | | | | | | | | | | | | |



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| Item 8.05 | Review of Curriculum (R22) for 1 st to 4 th semesters. |
| Discussion | <ul style="list-style-type: none"> All the members were well satisfied with the proposed R22 curriculum. |
| Resolution | All the suggestions given by BoS Members were noted and taken for improvement. |
| Item 8.06 | Review and Approval of Curriculum and Syllabi for 5 th and 6 th semesters (R22) with CO – PO/PSO Mapping. |
| Discussion | <p>The 5th and 6th semester syllabi with CO – PO/PSO mapping were discussed, and following points were suggested:</p> <p>Semester V:</p> <ul style="list-style-type: none"> Soil and Water Conservation Engineering – The experts suggested to include remote sensing concept at unit V and also stated to revise the content of the syllabus with soil erosion and conservation concept. Unit Operations in Agricultural Processing - Dr. V. Thirupathi suggested to include evaporation and concentration in unit I and update topics in unit V. He also suggested to reduce the content of the syllabus as it is too heavy. Farm Implement and Equipment - Dr. V. Thirupathi and Mr. RM. Subramanian suggested to concise the entire content as single unit as challenges in farm mechanization and recommended to include advanced topics pertaining in market in remaining 4 units. The experts also suggested the government schemes on farm mechanization to include in lab exercises. CAD for Agricultural Engineers – There found no comments from the experts. Unit Operations in Agricultural Processing Laboratory – Dr. V. Thirupathi suggested to rearrange the exercise based on the theory content as both theory and practical courses to be conducted simultaneously. This helps the students for the better understanding of the course. <p>Semester VI:</p> <ul style="list-style-type: none"> Renewable Energy Sources – Dr. P. Venkatachalam suggested to change the title of Unit I and also recommended to include the basic topics on hydrogen followed with fuels. Food and Dairy Engineering - There found no comments from the experts. Food and Dairy Engineering Laboratory - Dr. V. Thirupathi recommended to include properties of the food products and adulterants related content in laboratory exercise. Rural Agricultural Work Experiment - Dr. P. Venkatachalam suggested to change title as Rural Agro Industry Work Experiment and all the experts discussed about the need of the course, finally Mr. S. P. Kishore recommended by stating the key points of the course. All the members were suggested to include updated edition details of textbooks for all the respective courses. |
| Resolution | Resolved to change the suggestions of the syllabi. |



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| Item 8.07 | Review and Approval of Verticals – Honor, Elective (PEC & OEC) and Minor Courses (R22). | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|--|---|---|--|---|---|---|--|---|------------------------------------|--|----------------------------------|-----------------------|---|----------------------------------|--------------------------------|----------------------------------|------------------------------|-----------------------------|---|--------------------------|---|--------------------------------|--|---|----------------------------------|-------------------------|-----------------------------------|-----------------------------------|--|---------------------------|-------------------------------|---------------------------------|-----------------------------|-------------------------------------|------------------------|-------------------|-----------------------------|------------------------|------------------|-----------------------------------|--|---|--------------------|--------------------------------|--------------------------|-------------------------|------------------------------------|--------------------|--------------------------------|----------------------------|--|--------------------------|------------------------------|--|
| Discussion | <ul style="list-style-type: none"> The syllabi of Verticals - Program Elective / Honour, Open Elective and Minor courses were discussed. <p>Verticals – Program Elective / Honor courses:</p> <table border="1" data-bbox="336 510 1393 1279"> <thead> <tr> <th>VERTICAL 1– FARM MECHANIZATION</th> <th>VERTICAL 2– RENEWABLE ENERGY</th> <th>VERTICAL 3– WATER MANAGEMENT</th> <th>VERTICAL 4– FOOD PROCESSING AND PRODUCT TECHNOLOGY</th> <th>VERTICAL 5– AGRI- BUSINESS MANAGEMENT AND ENTREPRENEURSHIP</th> <th>VERTICAL 6– SMART AGRICULTURAL SYSTEMS</th> </tr> </thead> <tbody> <tr> <td>Testing and Management of Farm Machinery</td> <td>Biochemical and Thermo chemical Conversion of biomass</td> <td>Design of Micro Irrigation Systems</td> <td>Emerging Technologies in Food Processing</td> <td>Agricultural Business Management</td> <td>Protected Cultivation</td> </tr> <tr> <td>Plant Protection and Harvesting Machinery</td> <td>Waste and By-Product Utilization</td> <td>Reservoir and Farm Pond Design</td> <td>Storage and Packaging Technology</td> <td>Entrepreneurship Development</td> <td>Climate Change and Adoption</td> </tr> <tr> <td>Human Engineering and Safety in Farm Machinery Operations</td> <td>Solar Energy Engineering</td> <td>Irrigation Water Quality and Waste Water Management</td> <td>Refrigeration and Cold Storage</td> <td>Agricultural Marketing, Trade and Prices</td> <td>Remote Sensing and GIS for Agricultural Engineers</td> </tr> <tr> <td>Design of Agricultural Machinery</td> <td>Wind Energy Engineering</td> <td>Watershed Planning and Management</td> <td>Food Process Equipment and Design</td> <td>Extension Methods and Transfer of Technology</td> <td>Automation in Agriculture</td> </tr> <tr> <td>Hydraulic Drives and Controls</td> <td>Alternate Energy System Sources</td> <td>Groundwater Wells and Pumps</td> <td>Processing of Fruits and Vegetables</td> <td>Commercial Agriculture</td> <td>IT in Agriculture</td> </tr> <tr> <td>Precision Farming Equipment</td> <td>Energy Storage Systems</td> <td>Water Harvesting</td> <td>Food, Plant Design and Management</td> <td>Agricultural Finance, Banking and Co-operation</td> <td>Instrumentation and Control Engineering</td> </tr> <tr> <td>Theory of Machines</td> <td>Energy Auditing and Management</td> <td>On-Farm Water Management</td> <td>Food Quality and Safety</td> <td>Ornamental and Landscape Gardening</td> <td>IoT in Agriculture</td> </tr> <tr> <td>Tractor and Automotive Engines</td> <td>Carbon Capture and Storage</td> <td>Building Materials, Estimation and Costing</td> <td>Dairy Product Technology</td> <td>Seed Technology Applications</td> <td>Artificial Intelligence and Machine Learning for Agriculture</td> </tr> </tbody> </table> <ul style="list-style-type: none"> The expert members told not to offer same related vertical courses at the same time to avoid overlapping of the courses. <p>Vertical 1: Farm Mechanization</p> <ul style="list-style-type: none"> Testing and Management of Farm Machinery – There found no comments from the experts. Plant Protection and Harvesting Machinery - Mr. RM. Subramanian suggested to add the advanced topics in post-harvest machineries like baller etc. and recommended to make this course compulsory. Human Engineering and Safety in Farm Machinery Operations – Dr. P. Venkatachalam suggested to discuss energy expenditure topics in unit III. Design of Agricultural Machinery - Dr. P. Venkatachalam suggested to add principles of design thinking in unit I and also recommended to include Text Book: Handbook of Design Thinking Hydraulics Drives and Controls - Dr. V. Thirupathi suggested to add all irrigation pumps and also insisted to conduct practical sessions for calculating the efficiencies of the pumps. Precision Farming Equipment – The experts were well satisfied and appreciated the syllabus. Theory of Machines – The experts suggested to make the course as | VERTICAL 1– FARM MECHANIZATION | VERTICAL 2– RENEWABLE ENERGY | VERTICAL 3– WATER MANAGEMENT | VERTICAL 4– FOOD PROCESSING AND PRODUCT TECHNOLOGY | VERTICAL 5– AGRI- BUSINESS MANAGEMENT AND ENTREPRENEURSHIP | VERTICAL 6– SMART AGRICULTURAL SYSTEMS | Testing and Management of Farm Machinery | Biochemical and Thermo chemical Conversion of biomass | Design of Micro Irrigation Systems | Emerging Technologies in Food Processing | Agricultural Business Management | Protected Cultivation | Plant Protection and Harvesting Machinery | Waste and By-Product Utilization | Reservoir and Farm Pond Design | Storage and Packaging Technology | Entrepreneurship Development | Climate Change and Adoption | Human Engineering and Safety in Farm Machinery Operations | Solar Energy Engineering | Irrigation Water Quality and Waste Water Management | Refrigeration and Cold Storage | Agricultural Marketing, Trade and Prices | Remote Sensing and GIS for Agricultural Engineers | Design of Agricultural Machinery | Wind Energy Engineering | Watershed Planning and Management | Food Process Equipment and Design | Extension Methods and Transfer of Technology | Automation in Agriculture | Hydraulic Drives and Controls | Alternate Energy System Sources | Groundwater Wells and Pumps | Processing of Fruits and Vegetables | Commercial Agriculture | IT in Agriculture | Precision Farming Equipment | Energy Storage Systems | Water Harvesting | Food, Plant Design and Management | Agricultural Finance, Banking and Co-operation | Instrumentation and Control Engineering | Theory of Machines | Energy Auditing and Management | On-Farm Water Management | Food Quality and Safety | Ornamental and Landscape Gardening | IoT in Agriculture | Tractor and Automotive Engines | Carbon Capture and Storage | Building Materials, Estimation and Costing | Dairy Product Technology | Seed Technology Applications | Artificial Intelligence and Machine Learning for Agriculture |
| | VERTICAL 1– FARM MECHANIZATION | VERTICAL 2– RENEWABLE ENERGY | VERTICAL 3– WATER MANAGEMENT | VERTICAL 4– FOOD PROCESSING AND PRODUCT TECHNOLOGY | VERTICAL 5– AGRI- BUSINESS MANAGEMENT AND ENTREPRENEURSHIP | VERTICAL 6– SMART AGRICULTURAL SYSTEMS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Testing and Management of Farm Machinery | Biochemical and Thermo chemical Conversion of biomass | Design of Micro Irrigation Systems | Emerging Technologies in Food Processing | Agricultural Business Management | Protected Cultivation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Plant Protection and Harvesting Machinery | Waste and By-Product Utilization | Reservoir and Farm Pond Design | Storage and Packaging Technology | Entrepreneurship Development | Climate Change and Adoption | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Human Engineering and Safety in Farm Machinery Operations | Solar Energy Engineering | Irrigation Water Quality and Waste Water Management | Refrigeration and Cold Storage | Agricultural Marketing, Trade and Prices | Remote Sensing and GIS for Agricultural Engineers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Design of Agricultural Machinery | Wind Energy Engineering | Watershed Planning and Management | Food Process Equipment and Design | Extension Methods and Transfer of Technology | Automation in Agriculture | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Hydraulic Drives and Controls | Alternate Energy System Sources | Groundwater Wells and Pumps | Processing of Fruits and Vegetables | Commercial Agriculture | IT in Agriculture | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Precision Farming Equipment | Energy Storage Systems | Water Harvesting | Food, Plant Design and Management | Agricultural Finance, Banking and Co-operation | Instrumentation and Control Engineering | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Theory of Machines | Energy Auditing and Management | On-Farm Water Management | Food Quality and Safety | Ornamental and Landscape Gardening | IoT in Agriculture | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Tractor and Automotive Engines | Carbon Capture and Storage | Building Materials, Estimation and Costing | Dairy Product Technology | Seed Technology Applications | Artificial Intelligence and Machine Learning for Agriculture | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



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compulsory.

- **Tractor and Automotive Engines** – The experts suggested to reduce the course content and Dr. V. Thirupathi recommended to add current status and newly launched features of tractors and Engines in Unit V.

Vertical 2: Renewable Energy

- **Bio and Thermo-chemical Conversion of Biomass, Waste and By-product Utilization** – The experts were well satisfied and appreciated the syllabus and found no comments.
- **Solar Energy Engineering** – Dr. P. Venkatachalam suggested to add topics on domestic use and applications of solar energy in agriculture. Also suggested to include solar tray dryer. Mr. RM. Subramanian suggested to add solar light trap.
- **Wind Energy Engineering** - The experts were appreciated.
- **Alternate Energy System Sources** - Dr. P. Venkatachalam suggested to include book named GD Raid in textbook. Mr. K. Pradeep Kumar suggested to remove abbreviation in the syllabus.
- **Energy Storage Systems, Energy Auditing and Management** – There found no comments from the experts for both the courses.
- **Carbon Capture and Storage** - Dr. P. Venkatachalam suggested topics on carbon credit shall be included.

Vertical 3: Water Management

- **Design of Micro Irrigation Systems** – Mr. S. P. Kishore suggested to include design and application concepts of micro irrigation. Dr. Suvain K. K. informed that the topic was included in the Irrigation and Drainage Engineering and also in Automation in Agriculture. The experts recommended with no repetition of contents.
- **Reservoir and Farm Pond Design**- Dr. P. Venkatachalam suggested to include site selection and design of farm pond topics in the syllabus.
- **Irrigation Water Quality and Waste Water Management** - Dr. V. Thirupathi suggested to add more topics related to waste water treatment.
- **Watershed Planning and Management, Groundwater Wells and Pumps, Water Harvesting, On-Farm Water Management and Building Materials Estimation and Costing**– All these courses found no comments from the experts.

Vertical 4: Food Processing and Product Technology

- **Emerging Technologies in Food Processing** - There found no comments from the experts.
- **Storage and Packaging Technology** – The experts recommended to make the course as compulsory and Dr. V. Thirupathi suggested to include controlled and modified atmosphere, storage structures, silos, cold storage and cold chain management and suggested to add advancement on packaging.
- **Refrigeration and Cold Storage** - Dr. V. Thirupathi suggested to update the syllabus with recent advancements.
- **Food Process Equipment and Design** - Dr. V. Thirupathi recommended to



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change the title as Design of Food Process Equipment.

- **Processing of Fruits and Vegetables** - Dr. V. Thirupathi and Mr. RM. Subramanian suggested to make generalized course title by including processing of spices, aromatics and medicinal plants. Also recommended to make the course as compulsory. The experts recommended to remove the storage related content so that it can included and studied in Storage and Packaging Technology.
- **Food, Plant, Design and Management, Food Quality and Safety** – There found no comments from the experts.
- **Dairy Products Technology** - Dr. V. Thirupathi recommended to change the course title as Dairy Technology.

Vertical 5: Agri- Business Management and Entrepreneurs hip

- **Agricultural Business Management** – The experts suggested to make the course as compulsory.
- **Entrepreneurship Development** - Dr. V. Thirupathi suggested to give more case studies during the course.
- **Agricultural Marketing, Trade and Prices, Agricultural Finance, Banking and Co-operation, Commercial Agriculture** - Dr. P. Venkatachalam and all other experts appreciated with the course. And recommended for entrepreneurship willing students. Mr. RM. Subramanian suggested adding on crop insurance and other relevant government schemes in the syllabus of Agricultural Finance, Banking and CO-operation.
- **Extension Methods and Transfer of Technology** – The experts suggested revising the syllabus with the inclusion of advanced technology in technology transfer, impact of the technology, reinvention, branding and trials etc., as this course not to target only on dissemination concepts of technology.
- **Ornamental and Landscape gardening** - Dr. V. Thirupathi suggested to add vertical farming and hydroponic cultivation.
- **Seed Technology Applications** – The experts were well satisfied and appreciated with the syllabus and found no comments.

Vertical 6: Smart Agricultural Systems

- **Protected Cultivation, Climate Change and Adaptation**– There found no comments.
- **Remote Sensing and GIS for Agricultural Engineers** - Dr. P. Venkatachalam suggested to revise the syllabus in relevant to agriculture.
- **IT in Agriculture** – Mr. RM. Subramanian suggested to add about Uzhavan app and other standard app used in agriculture.
- **Instrumentation and Control Engineering** – All the experts insist to make this as a compulsory course and found no comments.
- **Automation in Agriculture and IoT in Agriculture** – The experts were well satisfied and appreciated with the syllabus and found no comments.
- **Artificial Intelligence and Machine Learning for Agriculture** - Dr. P. Venkatachalam suggested all the students to learn compulsorily.



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| | <p>Open Elective Courses</p> <ul style="list-style-type: none"> The experts were well satisfied and appreciated the syllabus and found no comments. All experts suggested to add some attractive courses like post harvest and incubation related courses. Dr. P. Venkatachalam suggested to include Engineering Economics for all programmes as Open Elective. <p>Minor Courses</p> <ul style="list-style-type: none"> The experts were well satisfied and appreciated with the syllabus and found no comments. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Resolution | Resolved to change the suggestions of the syllabi. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Item 8.08 | Review and Approval of One Credit Courses / Value Added Courses. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Discussion | <p>These are the list of one credit / values added courses planned to offer:</p> <ul style="list-style-type: none"> ✓ Operations Research and Industrial Management ✓ Post Harvest Operations ✓ Land and Water Resource Management ✓ Ergonomics and Safety ✓ Statistical Methods in Agriculture ✓ Web Designing and Internet Applications ✓ Auto CAD Applications in Agricultural Engineering ✓ Organic Farming ✓ Kitchen and Roof Top Garden <p>The members were satisfied with the list of courses. Dr. V. Thirupathi and Dr. P. Venkatachalam also suggested to include</p> <ul style="list-style-type: none"> ✓ Hydroponics / Aeroponics cultivation ✓ Updated mechanization and softwares ✓ Micro irrigation systems design and installation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Resolution | Resolved to include and approve the list of one credit / value added courses. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Item - 8.09 | Review on attainment of 2023 passed out students and target attainment fixed for next batch. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Discussion | <ul style="list-style-type: none"> The achieved attainment levels of the passed-out batch 2023 is as follows: <table border="1" data-bbox="328 1760 1449 1910"> <thead> <tr> <th></th> <th></th> <th>PO1</th> <th>PO2</th> <th>PO3</th> <th>PO4</th> <th>PO5</th> <th>PO6</th> <th>PO7</th> <th>PO8</th> <th>PO9</th> <th>PO10</th> <th>PO11</th> <th>PO12</th> <th>PSO1</th> <th>PSO2</th> </tr> </thead> <tbody> <tr> <td>17 - 21</td> <td rowspan="3">% OVER ALL ATTAINMENT</td> <td>81.59</td> <td>74.00</td> <td>73.26</td> <td>69.14</td> <td>69.16</td> <td>69.88</td> <td>69.15</td> <td>57.42</td> <td>69.54</td> <td>78.97</td> <td>67.03</td> <td>67.93</td> <td>68.68</td> <td>65.72</td> </tr> <tr> <td>18 - 22</td> <td>82.04</td> <td>73.60</td> <td>73.61</td> <td>69.49</td> <td>70.65</td> <td>70.33</td> <td>69.43</td> <td>63.52</td> <td>69.56</td> <td>78.62</td> <td>70.82</td> <td>69.64</td> <td>69.04</td> <td>66.63</td> </tr> <tr> <td>19 - 23</td> <td>82.86</td> <td>74.92</td> <td>74.14</td> <td>70.32</td> <td>71.09</td> <td>71.42</td> <td>69.79</td> <td>63.60</td> <td>70.20</td> <td>79.14</td> <td>71.24</td> <td>70.26</td> <td>69.65</td> <td>67.05</td> </tr> <tr> <td>Average</td> <td></td> <td>82.16</td> <td>74.17</td> <td>73.67</td> <td>69.65</td> <td>70.30</td> <td>70.54</td> <td>69.46</td> <td>61.51</td> <td>69.77</td> <td>78.91</td> <td>69.70</td> <td>69.28</td> <td>69.12</td> <td>66.47</td> </tr> </tbody> </table> <table border="1" data-bbox="328 1935 1449 1989"> <thead> <tr> <th>19 - 23</th> <th>Target</th> <th colspan="14">65.00</th> </tr> </thead> <tbody> <tr> <th>20 - 21</th> <td></td> <td colspan="4">68.00</td> <td colspan="4">60.00</td> <td colspan="4">65.00</td> <td colspan="2">65.00</td> </tr> </tbody> </table> <ul style="list-style-type: none"> The target fixed for the overall attainment of batch 2020 - 2024 is discussed. | | | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 | 17 - 21 | % OVER ALL ATTAINMENT | 81.59 | 74.00 | 73.26 | 69.14 | 69.16 | 69.88 | 69.15 | 57.42 | 69.54 | 78.97 | 67.03 | 67.93 | 68.68 | 65.72 | 18 - 22 | 82.04 | 73.60 | 73.61 | 69.49 | 70.65 | 70.33 | 69.43 | 63.52 | 69.56 | 78.62 | 70.82 | 69.64 | 69.04 | 66.63 | 19 - 23 | 82.86 | 74.92 | 74.14 | 70.32 | 71.09 | 71.42 | 69.79 | 63.60 | 70.20 | 79.14 | 71.24 | 70.26 | 69.65 | 67.05 | Average | | 82.16 | 74.17 | 73.67 | 69.65 | 70.30 | 70.54 | 69.46 | 61.51 | 69.77 | 78.91 | 69.70 | 69.28 | 69.12 | 66.47 | 19 - 23 | Target | 65.00 | | | | | | | | | | | | | | 20 - 21 | | 68.00 | | | | 60.00 | | | | 65.00 | | | | 65.00 | |
| | | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 - 21 | % OVER ALL ATTAINMENT | 81.59 | 74.00 | 73.26 | 69.14 | 69.16 | 69.88 | 69.15 | 57.42 | 69.54 | 78.97 | 67.03 | 67.93 | 68.68 | 65.72 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 - 22 | | 82.04 | 73.60 | 73.61 | 69.49 | 70.65 | 70.33 | 69.43 | 63.52 | 69.56 | 78.62 | 70.82 | 69.64 | 69.04 | 66.63 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 - 23 | | 82.86 | 74.92 | 74.14 | 70.32 | 71.09 | 71.42 | 69.79 | 63.60 | 70.20 | 79.14 | 71.24 | 70.26 | 69.65 | 67.05 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Average | | 82.16 | 74.17 | 73.67 | 69.65 | 70.30 | 70.54 | 69.46 | 61.51 | 69.77 | 78.91 | 69.70 | 69.28 | 69.12 | 66.47 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 - 23 | Target | 65.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 - 21 | | 68.00 | | | | 60.00 | | | | 65.00 | | | | 65.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



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| | <ul style="list-style-type: none"> The target fixed for the attainment of each year are as follows: <table border="1" style="margin-left: 40px;"> <thead> <tr> <th>Year</th> <th>Theoretical</th> <th>Analytical</th> </tr> </thead> <tbody> <tr> <td>I</td> <td>70</td> <td>65</td> </tr> <tr> <td>II</td> <td>70</td> <td>68</td> </tr> <tr> <td>III</td> <td>75</td> <td>70</td> </tr> <tr> <td>IV</td> <td>75</td> <td>72</td> </tr> </tbody> </table> | Year | Theoretical | Analytical | I | 70 | 65 | II | 70 | 68 | III | 75 | 70 | IV | 75 | 72 | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|-------------|----------------------|-------------|---|---------|----|----------------|----|-----|-----|--------------------|----|--------------------|----|--------------------|---|----------------|---|---------------|---|-------------------------|---|----------------|---|-----------------------------|---|-----|---|--------------------------|---|-------------|---|----------|---|
| Year | Theoretical | Analytical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I | 70 | 65 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| II | 70 | 68 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| III | 75 | 70 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IV | 75 | 72 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Resolution | BoS members noted the proceedings and resolved to record the same. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Item 8.10 | Approval of Panel of Examiners. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Discussion | <ul style="list-style-type: none"> The panel of examiners' committee deliberated on the list of external members for B.E./ B.Tech. practical and theory examinations. A few names were added and a few were removed as suggested by the committee. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Resolution | Resolved to approve. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Item 8.11 | Discussion on Strategic Plan and activities. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Discussion | <table border="1" style="margin-left: 40px;"> <thead> <tr> <th>Particulars</th> <th>No of Events planned</th> </tr> </thead> <tbody> <tr> <td>Conferences</td> <td>1</td> </tr> <tr> <td>Seminar</td> <td>1</td> </tr> <tr> <td>Guest lectures</td> <td>9</td> </tr> <tr> <td>FDP</td> <td>1</td> </tr> <tr> <td>Value added course</td> <td>1</td> </tr> <tr> <td>One credit courses</td> <td>3</td> </tr> <tr> <td>Alumni Interaction</td> <td>8</td> </tr> <tr> <td>Alumni chapter</td> <td>1</td> </tr> <tr> <td>Club Activity</td> <td>2</td> </tr> <tr> <td> 1. Professional Society</td> <td>4</td> </tr> <tr> <td> 2. Social Club</td> <td>1</td> </tr> <tr> <td> 3. Department Specific Club</td> <td>1</td> </tr> <tr> <td>MoU</td> <td>1</td> </tr> <tr> <td>Activity in existing MoU</td> <td>1</td> </tr> <tr> <td>News Letter</td> <td>1</td> </tr> <tr> <td>Magazine</td> <td>2</td> </tr> </tbody> </table> <p>The members were appreciated the plan and Dr. S. P. Jeyapriya suggested to conducted more number of activities through the MoU signed companies. Dr. V. Thirupathi recommended to encourage the students to participate in club activities, also suggested to get support from BIS for students' club activities.</p> | Particulars | No of Events planned | Conferences | 1 | Seminar | 1 | Guest lectures | 9 | FDP | 1 | Value added course | 1 | One credit courses | 3 | Alumni Interaction | 8 | Alumni chapter | 1 | Club Activity | 2 | 1. Professional Society | 4 | 2. Social Club | 1 | 3. Department Specific Club | 1 | MoU | 1 | Activity in existing MoU | 1 | News Letter | 1 | Magazine | 2 |
| Particulars | No of Events planned | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Conferences | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Seminar | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Guest lectures | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FDP | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Value added course | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| One credit courses | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alumni Interaction | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alumni chapter | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Club Activity | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Professional Society | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. Social Club | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. Department Specific Club | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MoU | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Activity in existing MoU | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| News Letter | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Magazine | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Resolution | BoS members resolved to record the same. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



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| | |
|------------|--|
| Item 8.12 | Discussion on Teaching Learning Process. |
| Discussion | <ul style="list-style-type: none">Members discussed about the teaching learning process on academic planning, teaching, academic support, project/industry support, student evaluation, faculty evaluation and suggested to improve with the real time problem solving skill of the students' through mini projects, industrial visits and also with the field exposures. |
| Resolution | Resolved to approve. |
| Item 8.13 | Review on best practices in department. |
| Discussion | <ul style="list-style-type: none">Dr. P. Komalabharathi presented the best practices of the department as the industrial related courses were selected like Irrigation and Drainage Engineering, Farm Tractor Systems and Design of Micro Irrigation Systems. These courses were given more importance to the students with local and industrial visits, also insisted them to do more inplant trainings and internships to get better exposure. Also the students were focused to get more offers in the relevant discipline. |
| Resolution | Resolved to record the proceedings. |
| Item 8.14 | Discussion on students trainings and exposure to meet industry standards |
| Discussion | <ul style="list-style-type: none">All the members were in discussion with the uplifting of the students skillset.Dr. V. Thirupathi recommended offering drone pilot course as compulsory certification courses for students.Dr. P. Venkatachalam suggested offering tractor driving and licensing for all the students as certification course.Dr. D. Ambika suggested to involve more industry related activities to students' and insist students to do more industrial projects and focus them on patenting and publication. |
| Resolution | Resolved to approve. |
| Item 8.15 | Any other matter |
| Discussion | Nil |



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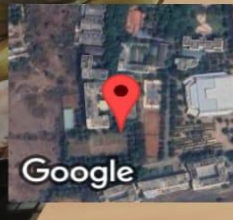
Summary of approvals

- 7th BoS meeting minutes and ATR are approved.
- MoM of PAC meeting-1 held on 07.08.2023, PAC meeting-2 held on 05.10.2023, PAC meeting-3 held on 01.03.2024, PAC meeting-4 held on 06.04.2024, DAB meeting-1 held on 04.01.2024 & DAB meeting-2 held on 25.05.2024 are approved
- Syllabi of 3rd and 4th semesters, Honors and Minor degree courses under R22 regulations are approved.
- Panel of Examiners for question paper setting, valuation and laboratory examinations are approved

Finally, Dr. Suvain K. K., BoS Coordinator, thanked all the members for active participation.



GPS Map Camera



Vailkaalmedu, Tamil Nadu, India
Block-7, NEC Campus, Vailkaalmedu, Thottani, Tamil Nadu 638052, India
Lat 11.284109°
Long 77.620819°
01/06/24 10:23 AM GMT +05:30

Date: 01.06.2024

Dr. P. Komalabharathi

(Chairman, BoS – Agricultural Engineering)



NANDHA ENGINEERING COLLEGE (Autonomous)
Pitchchandampalayam (P.O.), Vaaikalmedu,
Erode-638 052

Board of Studies

Academic Year: 2024-2025

| | | | |
|-------|--------------------------|-------------|-----------------------|
| Board | Agricultural Engineering | Meeting No | 8 |
| Venue | Board Room | Date & Time | 01.06.2024 & 11.00 AM |

| External Members Attended | | | |
|---------------------------|---|--|-----------|
| S. No. | Members | Representation | Signature |
| 1. | Dr. S. P. Jeyapriya, Professor, Department of Civil Engineering, Government College of Technology, Thadagam Road, Coimbatore – 641 013 Email: jeyapriya@gct.ac.in Ph. No.: 9443157730 | University Nominee | |
| 2. | Dr. P. Venkatachalam, Professor, Mahendra Engineering College, Mallasamudram, Namakkal – 637 053 Email : pvenkat55@icloud.com Ph. No.: 94429 61793 | Expert Nominee (Nominated by Academic Council) | |
| 3. | Dr.V.Thirupathi Professor, Food Processing, Tamil Nadu Agricultural University, Coimbatore - 641 003. Email : vthirup@gmail.com Ph. No.: 9443889498 | Expert Nominee (Nominated by Academic Council) | |
| 4. | Dr. D. Ambika Former ASP, Kongu Engineering College, Email : ambikacc@gmail.com | Special Invitee | |
| 5. | Mr.R.Murugesan B.E.,(Ag) M.B.A., CEO, Roots Irrigation System, No55, Vilankurichi Road, Anna Industrial Estate, Coimbatore-641 035. Email : ceo@rootsirrigation.com Ph. No.: 98430 1789. | Member (Expert from Industry) | - AB - |
| 6. | Mr. S.P. Kishore, SAI Irrigation, 116/1 Vettuvankattu Thottam, Vivekanadhar Road, Thindal, Erode - 638012 Email : saiirrigationerode@gmail.com Ph.No.: 8056366500 | Alumni | |



NANDHA ENGINEERING COLLEGE, (Autonomous)

Erode-638 052

Board of Studies

Academic Year: 2024-2025

| | | | |
|-------|--------------------------|-------------|-----------------------|
| Board | Agricultural Engineering | Meeting No | 8 |
| Venue | Board Room | Date & Time | 01.06.2024 & 11.00 AM |

| Internal Members Attended | | | |
|---------------------------|-----------------------|----------------|----------------------------|
| S. No. | Members | Representation | Signature |
| 1. | Dr. Komalabharathi P. | Chairman | P. K. C. 01/06/2024 |
| 2. | Dr. Murthi M. K. | Member | M. K. M. 11/6/24 |
| 3. | Dr. Suvain K. K. | Member | S. K. K. 11/6/24 |
| 4. | Mr. Pradeep Kumar K. | Member | K. Pradeep 11/6/24 |
| 5. | Mr. Chandramohan V. | Member | V. Chandramohan 11/6/24 |
| 6. | Mr. Anandhu K. | Member | A. K. 11/6/24 |
| 7. | Mr. Bragadeeswaran T | Member | - AB - |
| 8. | Ms. Priyanka A. | Member | A. Priyanka 11/6/24 |
| 9. | Ms. Sridharshini R. | Member | R. Sridharshini 11/6/24 |
| 10. | Mr. Prasanth M. | Member | M. Prasanth 11/6/24 |