CSMSS

CHH SHAHU COLLEGE OF ENGINEERING,

AURANGABAD.

RESEARCH & DEVELOPMENT POLICY

Research & Development Policy

Research and academics are two sides of a coin. Hence, research activity is an important component in the curricular of all the Institute programs. In fact, familiarity with the Institute is very often reflected by its quality of research output. It has been observed that technical institutes are not contributing to National research as per expectations, as mentioned in various technical reports. Considering this concern, CSMSS CSCOE has prepared a policy for fostering Excellence in Research.

Researchers of different departments of the Institute are looking at various aspects of Science and Technology to solve the challenges of Society. Researchers use innovative research techniques and modern tools, both to solve problems of the modern world and to understand the ancient world better.

Research and Development Cell of CSMSS CSCOE is constituted with the guidelines of UGC.

Scope:

1. The Research and Development Cell would help in creating a research ecosystem for reliable, impactful, and sustained research output.

2. The Research and Development Cell would be for the generation of knowledge and facilitation of research, innovation, and technology development for industrial & societal benefits, intellectual capital (knowledge & skills), governance (regulation & policies), and financial resources (funding & grants).

3. To promote Research publication/ Intellectual Property Rights/ Innovation / Consultancy / industrial problems and solutions and technology transfer.

Objectives:

Our research objectives are to lead the International agenda across the Institute's programs of study and through interdisciplinary initiatives and make significant contributions to society regionally, nationally, and internationally.

The objectives are:

❖ To implement Research Policies for procurement of equipment, and financial management under the guidance of Research & Innovation Quality Circle (RIQC) and IQAC and to disseminate research outcomes to stakeholders and the public/society at large

❖ To promote researchers for relevant research funding agencies and research grants, extend guidance in preparation & submission of research/project proposals, and post-sanctioning of the grants

❖ To motivate and depute faculty for doctoral assignments at various national and international universities and organizations of repute.

❖ To serve as a nodal center for the ideation and conceptualization of research topics/themes by organizing workshops, and seminars on research methodology, IPR, and Patents.

❖ To explore new horizons of knowledge and ensure its practical implementation through collective efforts and quality research work.

❖ To prepare the database of in-house experts to provide industrial consultancy and services and monitor & help the status of ongoing/ completed research projects/ Programs expertise & resources, etc.

❖ Identifying and informing researchers about the appropriate research opportunities announced by different academic, research, industries, and government organizations.

R & D Activities:

1. To register patents and copyrights by faculty and students.

2. Funding research-based UG/PG projects and ideas.

3. Publication by the faculty and students in peer-reviewed journals.

4. Collaboration and MOU with Industry and R & D Organization.

5. Organize and attend research conferences, Workshops, Symposia, Faculty Development Programs, Short Term Training Programs, Refresher Programs on Research Methodology, IPR, Patent Filing, Design etc

6. Procurement of high-end laboratory equipment and software for research.

7. Talks and Lectures by eminent researchers.

8. Promoting Final year student projects to publish papers by adding a Guide as one of the co-authors.

9. Every department has to conduct a minimum one Workshop or FDP with respect to Research Methodology once in a year.

Research & Development cell (R&D Cell)

1. The institute shall have a Research & Development cell (R&D Cell), called Core Group, comprised of the following members

    1) Principal– Chairman
    2) R & D – Coordinator
    3) Members
        a. Head of departments of all programs
        b. Departmental research coordinators

2. Each department in the institute shall have a department research committee with the following members:

    a) Head of Dept. – Chairman
    b) PG Coordinator – Secretary
    c) Two Senior faculty- Members

Functions of Research & Development cell (R&D Cell)

1. The activities suggested by RIQC will be conducted by R & D Cell.

2. The Research & Development Cell will encourage faculties to conceive ideas through enhanced industry-academia interactions with the Liasoning of IIQC to prepare research proposals for funding from various agencies and functions for fostering research and facilitating copyrights, patent filing, and commercialization

3. To organize events to support research viz. Research Methodology and specific research theme-based workshops.

4. To facilitate optimizing resources, and timely review of research activities for completion of the research projects as per schedule.

5. To motivate the faculties, scholars, and students to participate actively in the process of ideation and innovative research in emerging areas.

6. To ensure that faculties and students understand the importance of integrity and ethics and comply with ethical codes of research and publishing practices.

7. To provide a standard plagiarism check to be implemented and the requisite software in this regard made accessible to all researchers.

8. The R & D Cell will sensitize the community about dubious research, publishing practices, and predatory journals.

9. The R & D Cell will monitor and support research progress.

10. The Institute emphasis shall be on multi-disciplinary research.

11. Each department shall be developed as the model research center for solving social problems using Engineering and Technology.

12. The department shall identify thrust areas of research to promote and make efforts to develop the institute as a National /International repute.

13. The Institute shall promote the faculties to submit proposals to different National and International funding agencies.

14. The institute shall encourage international and national collaborations, especially funded by the Government of India worldwide.

15. The Institute shall try to financially assist faculty, if funds are available with the Institute, for carrying out their research projects, for a maximum period limited to two years or till they receive the financial grants from the funding agency.

16. The institute shall provide seed money for the potential proposals. The proposal shall be submitted to the R&D cell after the satisfactory presentation to the departmental research committee with details of submission to the relevant funding agency.

17. Seed money to initiate R&D project shall be distributed by the following procedure:

   a) Submission of proposal/s to funding agency.

   b) Application for seed money through the respective HOD.

   c) Scrutiny by the R&D cell on sanction of the submitted project.

   d) As decided from time to time, a certain percentage of the sanctioned project cost shall be given as seed money from the departmental R&D budget.

18. The departmental research facility may be extended to researchers of other colleges/researchers from outside at a reasonable charge decided by the Institute from time to time.

19. The department should publish the list of potential equipment available in the department on the institute's website for other department's interest as well as outside.

20. The grants shall be made available for procuring Test and measuring equipment, hardware, etc.

21. The Institute shall reimburse the expenses limited to a certain amount, to UG, PG, and Ph.D. research work to meet the contingency expenses to the students on production of original receipts for expenditure incurred on component procurement and consumables and paper publication fees in peer-reviewed journals from the list published.

22. Every faculty member shall publish their research in peer-reviewed journals only.

23. Faculty members shall be eligible for TA/ DA to present their research work/deliver keynote addresses at reputed International conferences once a year.

24. The Principal Investigator shall be responsible for conducting research projects by streamlining the administrative and audit system.

25. Collaboration of the Library facility shall be initiated by the institute as per the requirements of researchers for the required research project.

26. Each departmental research coordinator has to submit a report of the respective department in the Institute R& D Cell regarding research activities carried out each semester and a cumulative report in the prescribed format.

Research Publications Criteria

1. The Institution R& D Cell strong emphasis on fostering a culture of publication among its faculty and researchers, urging them to showcase their research findings in nationally and internationally renowned peer-reviewed journals.
2. Faculty Publications should indexed in prestigious databases like Scopus, Web of Science (WoS), Science Citation Index (SCI), SCI Expanded (SCIE), Social Sciences Citation Index (SSCI), and UGC Care.
3. The non-peer-reviewed journals will not be taken into account.
4. All the research articles crafted by faculty members, research scholars, and students must undergo Pre-peer review and plagiarism checks before submission and the choice of the journal must align with the subject matter of the research.
5. R& D Cell will support publishing research articles through its peer-reviewed journals only.
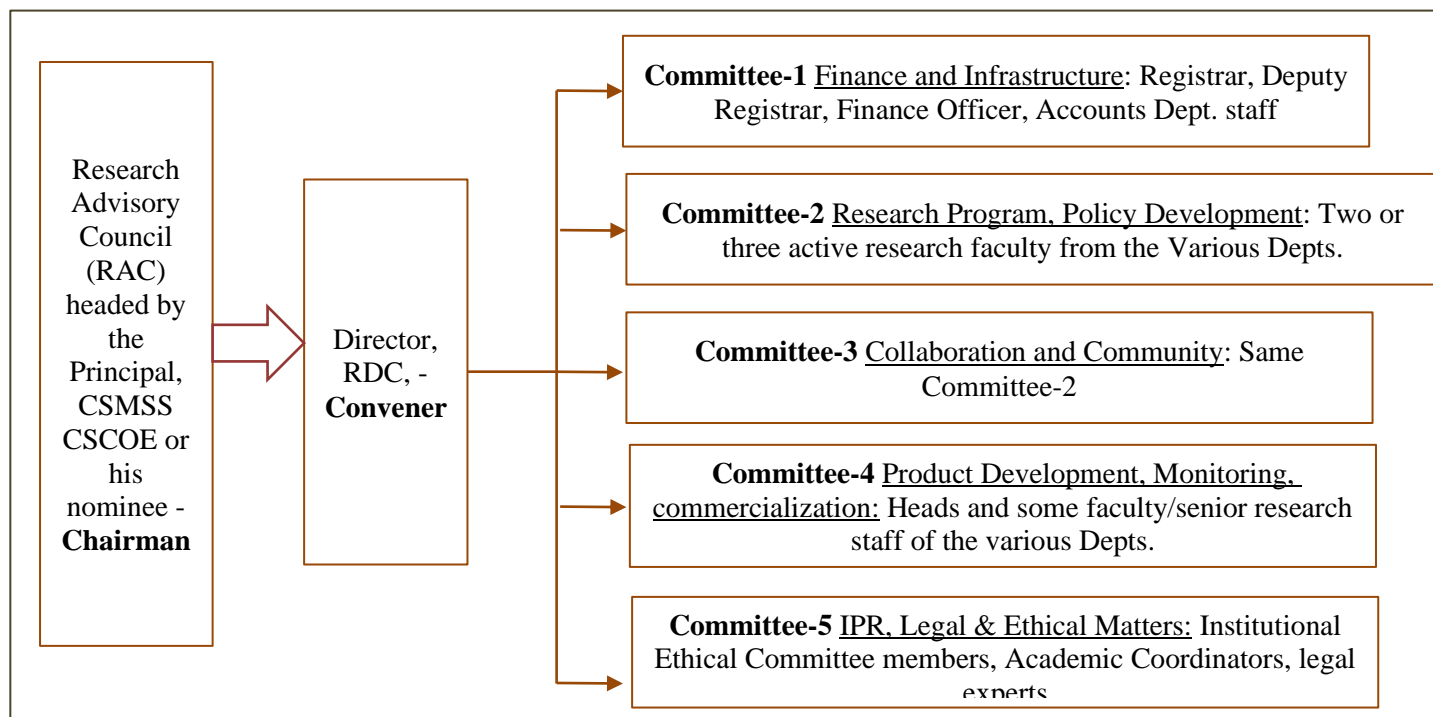6. R&D cell will support faculties in filing Patent Applications.

Efficient Governance Mechanism of CSMSS CSCOE RDC

1. The Research Governance has a Research Advisory Council (RAC) headed by the Principal, CSMSS CSCOE or his nominee, as the apex body of RDC.

2. The Director, nominated by Principal CSMSS CSCOE from among the distinguished researchers from the College, who will head various committees to drive the governance.

3. RDC has multiple committees to smoothen its functioning with respective committee members nominated by the Director, RDC, and approved by RAC. The Chairman (Head) of the RAC and the Convener (Director) will be ex officio members of all the Committees.

4. The organizational structure of RDC of CSMSS CSCOE comprising of various committees for specified functions is as follows:

Research Advisory Council (RAC) headed by the Principal, CSMSS CSCOE or his nominee - **Chairman**

Director, RDC, - **Convener**

Committee-1 Finance and Infrastructure: Registrar, Deputy Registrar, Finance Officer, Accounts Dept. staff

Committee-2 Research Program, Policy Development: Two or three active research faculty from the Various Depts.

Committee-3 Collaboration and Community: Same Committee-2

Committee-4 Product Development, Monitoring, commercialization: Heads and some faculty/senior research staff of the various Depts.

Committee-5 IPR, Legal & Ethical Matters: Institutional Ethical Committee members, Academic Coordinators, legal experts

Policy Document of Financial Support to the Staff

CSMSS

Chhatrapati Shahu Maharaj Shikshan Sanstha's

CHH. SHAHU COLLEGE OF ENGINEERING

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R&D POLICY DOCUMENT

A comprehensive Policy for Research and Development has been formed to enhance the capabilities of Staff in the areas of Research. Faculties willing to attend the Workshops, Conferences, Seminars, Industrial Training, Faculty Development Programs. The Funding for the programs can be done in a systematic manner as follows,

- Based on the areas of Research, the staff members and the Head of the Department has to discuss the Programs/Events like Training, FDP, Workshops, Conferences, etc. to be attended along with the Event Coordinator of the Department keeping in mind the Academic Schedule and Activities based on the Academic Calendar.
- Summing up the plan based on the Areas of Research and Development, the Coordinator of the Department along with the HoD's and principal of the institute decides on the Programs to be attended by the Staff. Depending upon the willingness and specialization, staff can be grouped together at times for the events to be attended.
- Staff must consider all the fees together and submit an Application to the Principal through the Head of the Department for consideration. Once approved by the HoD's and Principal, the Staff will apply for the Advance payment of the Expenses.
- Staff should clear the Advances within Eight days of Program Completion.
- All staff will be considered for the Expenses at least once in a year. Faculties can attend more than one program in a calendar year with prior approval from the higher authorities.
- Staff needs to identify the exact programs from the reputed organizations and institutions only based on their areas of research and interest.
- Staf members attending the FDP's, Conferences, Seminars, Workshops, Training, etc. will be entitled to ON DUTY (OD's) Leave provided prior approval is needed.
- After attending the event, faculty has to clear the Advance and submit the report to the Accounts department regarding the Expenses incurred. Also, Staff has to submit the Certificate of Participation along with the Report and Photographs.
- All the necessary bills including Registration fees, Travelling Allowances, Food Expenses, etc. needs to be maintained, without which Advance will not be cleared.
- Every Faculty has to attend at least one Faculty Development Program in a Academic year. HoD's of the Department should ensure this and keep the record with the Department.
- NPTEL FDP's of at least 8 weeks and more courses will also be considered as one FDP.

Principal
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