

**BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING
LAVALE, PUNE-412115**

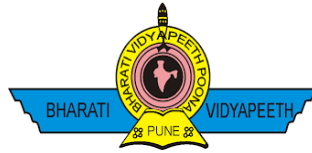
Policy on Research & Development Cell



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**1.0 The Vision and Mission of Bharati Vidyapeeth's College of Engineering,
Lavale Pune**

Mission

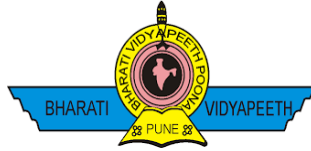
“Social Transformation through Dynamic Education” - We believe that it is through the spread of education in all the strata and sections of society that real social transformation can be brought about.

Vision

To nurture young minds and make them realize the true potential of delivery to fulfill the purpose of their soul existence by way of Discovery, Innovation, Leadership and Service

1.1 Framework for achieving excellence through research and innovation

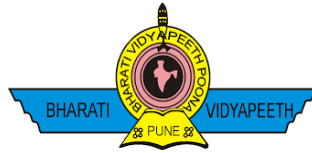
- The objective of the policy document is to enhance the overall quality of the institution and its stature. It describes how the culture of research is to be adopted.
- Research supports and improves teaching methodology as well increases quality of education.



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1.2 Formation of research advisory committee

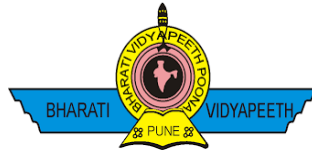
- The research advisory committee is formed to achieve the organization's objectives by using its resources effectively & efficiently in an ever changing environment.
- An advisory committee under the chairmanship of the institutional head is to be formed; senior faculty members from different departments should be part of this committee.
- Faculty members from premier institutions and experts from industry should be part of the committee as an adviser.
- The committee will form an internal research unit; the research unit will conduct a survey to assess the existing infrastructure facilities available with the institution.
- The research committee will explore space and facilities for the establishment of the research cell.



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2.0 Planning and Executing a Comprehensive Research Plan

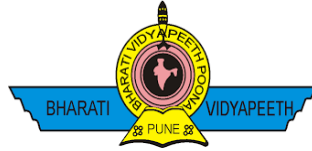
- Bharati Vidyapeeth's college of Engineering, Lavale, Pune is planning to improve and then excel in the domain of Research, in order to achieve the set milestones we need to focus our attention on multiple dimensions viz, interdisciplinary research, Intellectual Property Rights, Entrepreneurship Development, human capital, infrastructure, funding, and administration.
- The key attributes of Bharati Vidyapeeth's college of Engineering, Lavale, Pune are:
 - 1) Emphasis on talent of both faculty and students
 - 2) Creating an environment for technology enabled learning and supporting research.
 - 3) An Integrated approach to conduct multidisciplinary projects.
 - 4) Governance procedures that value foresight, strategic vision, and the flexibility.



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2.1 Review and Assessment of Research Activity across different departments

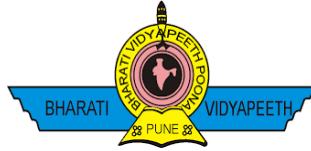
- Meticulous monitoring of the research activities on a periodic basis will be carried out by the research committee.
- The review of the research activities should be given to the higher authority on regular basis.
- Meeting on a regular basis should be conducted to improve the quality of research.
- Action plan should be prepared to overcome the short comings.



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2.2 Studying research projects to fix research focus.

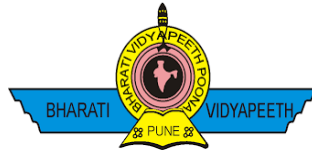
- The faculty members from each department will come forward with the ideas for improving existing research projects.
- Formation of Inter-disciplinary teams to conduct research.
- The scope and the potential of the project to be scrutinized by the research advisory committee.
- Industry Institute interaction to be enhanced.
- Subject matter experts to analyze the scope and impact of the research work.
- Thought leaders from industry and research institution will join hands for shaping the chosen research areas as well as overall research program planning,
- Providing hands-on experience in the form of internship or on job training.
- Adopting best practices from sister institutions of bharativedyapeeth and premier institutions of Excellence
- Developing a Comprehensive Funding Plan



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3.0 Management's role in promoting Research

- With the emergence of new frontiers of knowledge across the globe and the ease of accessing information at finger tips, has dramatically transformed the modes of education. Technological enhancement is a key to drive any business, material benefit for individuals and organization.
- Management should play a prominent role in enhancing research and development by focusing on resource allocation, formation of human/intellectual capital through education and training. Boosting the moral of the employees and creating an atmosphere which nurtures young talents.
- Management should provide proper support, encourage faculty members, and create an environment that ensures success.
- Management should encourage dialogue among the various stake holders (industry, society, parents and students) for creating a research environment which is in line with current trends of technological advancement.
- Achievements in the field of research and development should be rewarded in the form of promotions and monetary benefits.



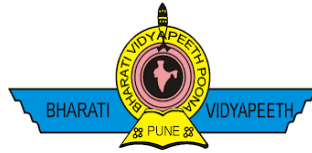
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4.0 Intellectual Property Rights (IPR) Cell

Intellectual property plays a significant role in providing a competitive edge to any Institution. Bharati Vidyapeeth's college of Engineering, Lavale, Pune recognizes the importance of generation of intellectual property by its teachers and students. This cell provides support and guidance to the engineering students and faculty members in protecting their inventions and creations. The College is committed to do all that is within its powers and obligations to encourage the creativity and innovation of its people, which can lead to generation of intellectual property (IP). This cell provides support and guidance to the engineering students and teachers in protecting their inventions and creations.

4.1 The major objectives of the IPR Cell include:

- To work in co-ordination with faculty members and students.
- To create awareness about IPR.
- Conduction of IP based workshops and seminars.
- To counsel and guide students and faculty members on the importance of IPR with the help of authorized patent agents.
- To forward eligible cases of IPR to IPR zonal offices.



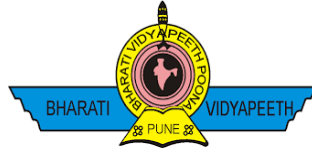
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5.0 Up -scaling existing Entrepreneurship development cell

Entrepreneurship development cell of Bharati Vidyapeeth's college of Engineering, Lavale, Pune which is in nascent stage under the department of mechanical engineering to be up-scaled to a pan institutional level body, faculty' members from different streams and students from final year engineering to be part of this cell.

5.1 Conversation of research work into a commercial venture

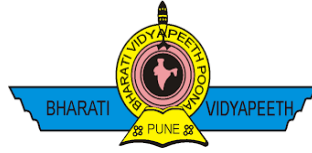
- The primary objectives of the EDC Cell will be to explore the avenues of converting the academic projects into business ventures.
- The entrepreneurship development cell aims to ignite creative thinking and nurture entrepreneurial instincts in students. The Cell hopes to achieve this by conducting workshops, competitions and interactive sessions with eminent personalities who are role models when it comes to business development.
- The Cell's ultimate vision is to create independent business persons out of interested students so that they not only become self-employed but also become capable of providing gainful, fulfilling employment to others and thereby benefit society at large.



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5.2 Role and responsibilities of entrepreneurship development cell in the formation of startups

- The process of forming a startup and its registration process to be handled by the entrepreneurship development cell.
- Funding platforms to be explored by entrepreneurship development cell. (venture capitalist, govt. sector schemes, financial institutions, mudra yojna of GOI)
- Create an entrepreneurial culture in the Institution and promote research objectives of BVCOEL, including financial benefits related to students and faculty members.
- To foster better linkages between the stake holders i.e. Industries and R&D institutions and other related organizations engaged in promoting Micro, Small & Medium Enterprises.
- To catalyze and promote development of small scale enterprises and promote employment opportunities
- To respond effectively to the emerging challenges and opportunities both at national and international level relating to SMEs and Micro Enterprises.



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6.0 Continuous improvement and sustainability

- Organizing awareness camps, guest lectures on research and development and faculty development programs in the institute.
- To arrange industrial visits for prospective entrepreneurs.
- By developing and introducing curriculum on research development programs at various levels including degree courses.
- To conduct research work and survey for identifying entrepreneurial opportunities.
- To guide and assist prospective research development programs on various aspects such as preparing project reports, obtaining projects and other facilities from sponsor
- To organize, workshop, seminars, etc. for promotion and growth.
- To act as an information centre on business opportunities, processes, technologies, market, etc. by creating and maintaining relevant database.
- To provide testing, calibration, quality assurance, design, tool room, pilot plant and other facilities for research development programs besides expertise in intellectual property rights, patents search, etc.
- To render advice to sick enterprises and assist the entrepreneurs in rehabilitating them.
- To conduct skill development training program leading to self employment.

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