NEW HORIZON
COLLEGE OF ENGINEERING
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DEPARTMENT OF RESEARCH AND DEVELOPMENT

Tel: 080 66297777, Extn: 3009 dean_research@newhorizonindia.edu

Event Report

TITLE	Workshop on Recent Advances in Research and Development	
DEPARTMENT	Research and Development	
DATE	From: 14.10.2026	To: 14.10.2026
TIME	From: 09:00 AM	To: 01:00 PM

REPORT ID: R&D 39

VENUE: NHCK Auditorium

REPORT CATEGORY: Workshop Program

PREPARED BY: Dr. Vinoth Kumar K, Associate Head - R&D

REVIEWED / APPROVED BY: Dr. Revathi V, Dean R&D

1. OBJECTIVE

The primary objective of the workshop was to enhance awareness and understanding of recent advances in Research and Development (R&D), emerging research technologies, innovative methodologies, and opportunities for interdisciplinary collaboration. The workshop aimed to motivate faculty members and researchers to strengthen their research competencies, improve the quality of scholarly publications, explore funding opportunities, and promote a sustainable research and innovation ecosystem within the institution.

2. BACKGROUND / CONTEXT

Research and Development plays a vital role in promoting academic excellence, technological innovation, and institutional growth. With rapid advancements in Artificial Intelligence (AI), Machine Learning (ML), Internet of Things (IoT), sustainable technologies, and interdisciplinary research, academic institutions are increasingly encouraged to adopt innovative research practices and contribute to scientific and societal development.

In this context, the Department of Research and Development organized a workshop titled "Recent Advances in Research and Development" on 14 October 2026, at the NHCK Auditorium. The workshop featured Dr. Vinoth Kumar K, Professor and Associate Head, Department of Research and Development, New Horizon College of Engineering, Bengaluru, as the resource person.

The programme was designed to create awareness of emerging research trends, research publication strategies, intellectual property rights, external funding opportunities, and the importance of transforming innovative research ideas into meaningful academic and technological outcomes.

3. DATA SOURCE / BUDGET *(As Applicable):* *Not Applicable*

4. PARTICIPANT / STAKEHOLDER DETAILS *(As Applicable)*

Target Participants:

- Faculty

Participant Summary:

Category	Count
External Participants (Faculty Members)	22
Total Participants	22

Resource Persons / Experts:

Dr. Vinoth Kumar K, Professor and Associate Head – R&D, New Horizon College of Engineering, Bengaluru

Departments Involved: BCA, BBA, BCOM

5. METHODOLOGY / EXECUTION SUMMARY

The workshop was scheduled as a four-hour interactive academic programme, from 09:00 AM to 01:00 PM, with an emphasis on recent developments and opportunities in research and innovation.

The programme focused on the following key areas:

1. Emerging Research Trends: Overview of recent technological advancements, including AI, ML, IoT, smart systems, renewable energy, and sustainable engineering solutions.
2. Research Publications: Discussion on effective strategies for preparing quality research manuscripts, identifying reputed Scopus/Web of Science indexed journals, and maintaining research ethics and publication standards.

3. Research Funding Opportunities: Awareness of research grants and funding schemes offered by agencies such as ANRF, AICTE, DST, DRDO, and VGST.
4. Intellectual Property Rights: Importance of patent identification, novelty assessment, patent filing, and commercialization of innovative research outcomes.
5. Interdisciplinary Research: Encouragement of collaborative research across engineering, science, and emerging technological domains.
6. Research Tools and Methodologies: Introduction to modern research practices, literature review techniques, citation management, plagiarism prevention, and research documentation.
7. Research Excellence: Emphasis on strengthening institutional research performance through quality publications, funded projects, patents, consultancy, and industry collaboration.

The programme was structured to encourage knowledge sharing and provide practical direction for enhancing research productivity.

6. ANALYSIS

Parameter	Observation
Participation Level	High
Engagement Level	Very Good
Documentation Awareness	Moderate

7. FINDINGS / OUTCOMES

The workshop highlighted several important aspects of strengthening research capabilities and fostering an innovation-driven academic environment.

- Enhanced Research Awareness: The programme emphasized the importance of keeping pace with emerging technologies, contemporary research methodologies, and global research developments.
- Quality Research Publications: The significance of publishing in reputed, peer-reviewed, indexed journals and maintaining academic integrity was highlighted.
- Research Funding Opportunities: The programme identified the importance of exploring external research grants and developing competitive proposals aligned with funding agency priorities.
- Patent and Innovation Culture: The need to identify patentable research outcomes and

encourage intellectual property protection was emphasized.

- Interdisciplinary Collaboration: Opportunities for collaborative research involving multiple departments, research institutions, and industries were highlighted.
- Research Performance Improvement: The workshop reinforced the need to improve institutional research indicators, including publications, citations, patents, funded projects, and consultancy activities.
- Sustainable Research Ecosystem: The programme emphasized continuous faculty development, research mentoring, and systematic monitoring of research activities.

These represent the principal thematic outcomes reflected in the workshop report; participant feedback and measurable impact would require separate verification.

8. RECOMMENDATIONS

Based on the workshop objectives and key thematic outcomes, the following recommendations are proposed:

1. Encourage faculty members to undertake high-quality, interdisciplinary research addressing emerging technological and societal challenges.
2. Organize periodic workshops and faculty development programmes on research methodologies, scholarly publications, patent filing, and proposal preparation.
3. Promote publications in reputed Scopus/Web of Science indexed journals with emphasis on research novelty, quality, and impact.
4. Motivate faculty members to submit research proposals to national and international funding agencies.
5. Strengthen collaboration with industries, research organizations, and academic institutions to promote applied research, consultancy, and technology transfer.
6. Establish structured mentoring and periodic review mechanisms to monitor research progress and improve measurable outcomes.
7. Encourage the effective utilization of modern research tools and ethical practices in research publication and innovation.

8. ACTION PLAN / FOLLOW-UP:

Sl. No.	Proposed Action	Responsibility	Timeline
1	Circulate workshop materials and key research guidelines among faculty members	R&D Department	Within 1 week
2	Identify emerging research areas and formulate interdisciplinary research groups	Department R&D Coordinators / Faculty	Within 1 month
3	Encourage submission of quality research manuscripts to reputed indexed journals	Faculty Members / Research Scholars	Continuous
4	Identify suitable funding schemes and prepare research proposals	Faculty Members / R&D Coordinators	Within 2–3 months
5	Conduct awareness and hands-on training programmes on patents, research tools, and publication ethics	R&D Department	Quarterly
6	Initiate collaborative research activities with industries and research institutions	HoDs / R&D Department	Within 3–6 months
7	Monitor progress in publications, patents, grants, and consultancy through departmental reviews	R&D Department / HoDs	Monthly

10. CONCLUSION

The workshop on "Recent Advances in Research and Development", organized on 14 October 2026, served as an important academic initiative to promote awareness of emerging research trends, innovative methodologies, quality publications, funding opportunities, and intellectual property development. The programme emphasized the importance of interdisciplinary collaboration, research ethics, and outcome-oriented research practices. The proposed follow-up activities are expected to strengthen faculty research engagement, enhance institutional research productivity, and contribute towards developing a sustainable culture of research excellence, innovation, and technological advancement.

11. EVIDENCE ATTACHED

Supporting Evidence:

- Annexure I – Poster
- Annexure II – Attendance Sheets
- Annexure III – Photos

SIGNATURES

Prepared By:

Reviewed By:

Approved By:

Dean
Department of Research and Development
NEW HORIZON COLLEGE OF ENGINEERING
New Horizon Knowledge Park, Bellandur Main Road,
Near Marathalli, Bengaluru – 560 103

Date: 14.10.2026

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Annexure I – Poster



Annexure II – Attendance Sheets

Attendance

Sl. No	Name of the faculty member	Designation	Signature
1.	Uma P	Sr. Assistant Profes.	
2.	Sumanth. S	Assistant professor	
3.	Anisha Garg	Assistant Prof.	
4.	Sneha. S	Assistant Prof	
5.	Vanessa Priya. M	Assistant Professor.	
6	Jeyarani R	Sr. Assistant Professor	
7.	Vybhavi B	Sr. Assistant Professor	
8.	PRATHIBHA VIKRANT	Sr. Assistant Professor	
9.	Prasanna Prakash	HOD	
10.	Divya Baliga B	Sr. Assistant Professor	
11.	Ranjitha P V	Assistant Professor	
12.	Shalini. R	Assistant Professor	
13.	Priya. P	Assistant Professor	
14.	Manisha. M	Assistant Professor	
15	Girida Raghu	Assistant Professor	
16	Hilaria Maria	Sr. Asst. Professor. HOD	
17	Aruna	Sr. Asst Professor	
18.	Dr R. Prema.	Associate Prof.	
19.	Soumya Singh E	Assistant Professor	
20.	Nallanathe	Associate Prof	
21	Supriya	Asst Professor	
22	Venkata Lakshmi K	Assistant Professor	

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Annexure III – Photos



