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Bhagwan Parshuram Institute of Technology

A Unit of Bhartiya Brahmin Charitable Trust (Regd.)

(Approved by AICTE, Ministry of HRD, Govt. of India)

Affiliated to Guru Gobind Singh Indraprastha University, Delhi



BPIT-Research and Development Cell (BRDC)

In an ever-evolving academic landscape, innovation and research are the twin pillars of progress. At **Bhagwan Parshuram Institute of Technology (BPIT)**, we recognise the importance of cultivating a strong research culture to drive knowledge, inspire breakthroughs and address contemporary challenges. The **BPIT Research and Development Cell (BRDC)** is at the forefront of this endeavour, striving to empower faculty and students by fostering collaboration, creativity and impactful outcomes.

With a clear vision and a mission rooted in excellence, BRDC aims to bridge the gap between academic learning and practical solutions, providing a platform to nurture ideas, encourage critical inquiry, and deliver meaningful contributions to society and industry.

1. Vision

To establish a thriving research ecosystem at BPIT that fosters innovation, advances science and engineering, and addresses contemporary challenges through strategic initiatives.

2. Mission

- i. To support and encourage faculty and students to undertake meaningful research projects.
- ii. To develop state-of-the-art/ infrastructure and resource support for high-quality research.
- iii. To promote interdisciplinary collaborations and industry-academia partnerships.
- iv. To disseminate research findings through conferences, journals, workshops and knowledge-sharing activities.

3. Objectives of BRDC

1. To promote, coordinate, and monitor research activities within the Institute by facilitating research awareness programmes.
2. To establish and strengthen partnerships between academia, industry and research institutions through knowledge sharing, resource pooling and fostering interdisciplinary collaboration.
3. To assist students and faculty members in identifying, securing, and managing funding opportunities by facilitating grant applications, guidance on proposal writing and compliance with funding agencies.
4. To promote collaboration between academia and industry to address real-world challenges by initiating industry-focused research projects, promoting technology transfer and supporting market-ready innovations.
5. To encourage innovation, protect intellectual property, and create awareness about IPR among students and faculty members by facilitating patent filing, technology transfer and Commercialisation, while ensuring compliance with IP laws.

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4. Guidelines of BRDC

Comprehensive guidelines have been formulated to align the Research and Development Cell (R&D Cell) objectives with institutional and academic goals. These guidelines focus on maintaining consistency, ensuring quality and achieving measurable outcomes:

- i. **Annual Research Plan and Monitoring:** Prepare an annual research activity plan for all departments and regularly monitor the progress of research and development initiatives to ensure alignment with institutional goals.
- ii. **Industry Collaboration and Challenges:** Establish and maintain strong liaisons with local and global industries to identify pressing technological challenges and opportunities for collaborative problem-solving.
- iii. **Strengthening Industry-Institute Interaction:** Promote Memoranda of Understanding (MoUs) to facilitate long-term relationships with national and international research organisations. These collaborations will widen the scope of research options, funding opportunities and knowledge exchange for faculty and students.
- iv. **Problem-Solving through Research Projects:** Identify and assign real-world industry problems to faculty and students as R&D projects to provide practical, research-based solutions.
- v. **Exploring Technological Development Areas:** Explore opportunities for technological development in common application areas such as transport, traffic regulation, security, healthcare, and sustainability, and encourage faculty and students to conduct research in these domains.
- vi. **MoUs with Industries and R&D Organizations:** Initiate and promote MoUs with industries and R&D organisations for consultancy services, collaborative research, sponsored projects and mutually beneficial partnerships.
- vii. **Organising Knowledge-Sharing Sessions:** Arrange brainstorming sessions, expert talks and lectures delivered by eminent personalities from industries, R&D organisations and reputed institutions. Such sessions aim to enhance a better understanding of contemporary research methodologies and best practices.
- viii. **Faculty Development and Engagement:** Support faculty members in delivering talks at conferences as well as conducting workshops, training programmes, seminars, symposia, and Faculty Development Programmes (FDPs).
- ix. **Awareness of Funding Opportunities:** Keep faculty and researchers informed about funding opportunities and announcements from agencies such as DST, DAE, DRDO, ISRO, CSIR, AICTE, UGC and other relevant funding organisations.



- x. **Student Research and Participation:** Motivate and encourage students to present their research papers at national and international conferences and to participate in competitions, exhibitions and innovation showcases.
- xi. **Collaborative and Interdepartmental Work:** Promote interdepartmental and collaborative research activities to cultivate multidisciplinary approaches and enhance the quality and scope of research outcomes.
- xii. **Encourage faculty members, especially Senior faculty members, to deliver talks on:**
 - Recent advancements in their respective research areas.
 - Recently published research papers from reputed journals in a lucid and engaging manner.
 - Hands-on training on reputed software in open-source Freeware or propriety software.

These guidelines create a structured and efficient R&D environment, fostering innovation, practical learning and industry-academia synergy. Faculty are encouraged to implement these practices actively to enhance the research culture at BPIT.

4a. Guidelines for Students in Research Development

- i. **Students willing to publish research papers or participate in technical activities** must inform the BRDC about research assistance.
- ii. Students are encouraged to present their work at **National/International** conferences preferably those organised by **IEEE, Springer, Wiley** and similar reputed platforms. In this regard, students can avail financial assistance, such as partial reimbursement of fees or other costs. However, the **eligibility** for such reimbursement will be determined as per the norms mentioned in scheme I.

Note: Eligibility criteria will be based on the indexing of the conference or event.

For any queries or requisitions, drop a mail at researchcell@bpitindia.com

- iii. To avail partial reimbursement, students must enclose the following documents:
 - a. **Receipt of registration fees**
 - b. **The first page of the research paper**
 - c. **Conference certificate**
 - d. **Completed application form**

The departmental **R&D coordinator** will recommend the request initially. Thereafter, all reimbursement requests will be presented to the **BRDC Research Advisory Committee** for recommendation to the Hon'ble Chairman for final approval. Upon final approval, students must submit **expense bills** to the **Head of Department** for verification, following which the verified bills will be submitted to the **Accounts Department** for reimbursement (**Refer Scheme I**)



4b. Guidelines for Faculty in Research Development

i. Faculty are encouraged to participate in National/International conferences hosted by institutions of repute, such as Deemed Universities of repute, IITs, NITs, IIITs, etc. Notable conferences include those organised by IEEE, Springer, Wiley and similar reputed platforms. Faculty should first explore conferences organised in Delhi and its adjoining areas.

Faculty presenting papers will be eligible for:

a. OD (On-Duty leave) as per the norms of BPIT.

b. Registration fee reimbursement on an actual basis or up to ₹5000, whichever is lower.

ii. Teachers participating in international collaboration exchange programmes with reputed agencies like CSIR, DST, ICSSR, or similar organisations may receive financial assistance of up to 50% of travel expenses or ₹20,000, whichever is lower.

Note: A detailed plan and outline of such visits must be submitted to BRDC for prior approval. Preferably, these leaves shall be granted during the non-teaching period.

iii. Financial assistance for attending National conferences/seminars/symposia will be available once in two academic years. The financial aid will include:

a. Registration fees up to a maximum of ₹5,000 (Rupees Five thousand only) and,

b. Travel expenditure (actual round-trip train fare – AC-2 Tier or equivalent airfare)

iv. Financial assistance for attending international conferences/seminars/symposia will be available once every three academic years. The aid will include travel expenses and registration fees up to a maximum of ₹20,000.

Note: The faculty members are encouraged to apply for TA/DA funding from various funding agencies like CSIR, DST, SERB, etc.

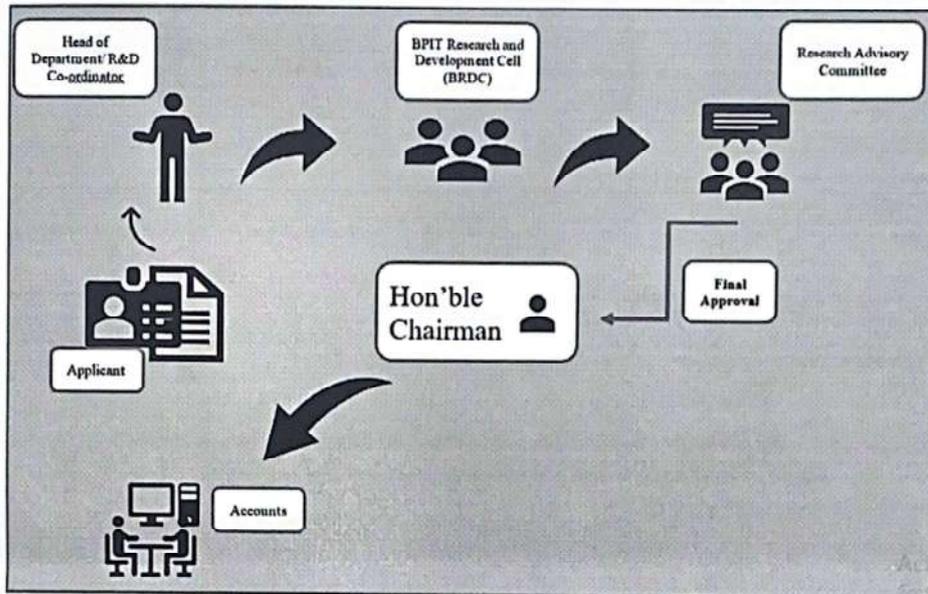
v. Deputation to attend conferences in India will not be counted for availing financial assistance for international conferences.

Hon'ble Chairman of the institute may enhance the leave duration and/or monetary award.

5. Implementation and Review of BRDC Policy

The BPIT R&D Cell will review applications for incentives and rewards, ensuring that awards are based on merit, adherence to guidelines, and the significance of research contributions. The Principal and the R&D Advisory Committee will oversee the process to maintain transparency

and fairness. Policies will be **periodically reviewed and updated** to keep pace with emerging trends and to ensure alignment with **BPIT's mission and vision**.



Scheme 1: Implementation of BRDC's Research and Incentive Workflow (Appendix D)

Note:

- It should be noted that the **Research Advisory Committee's decision** will be **final and binding**. Mere submission of an application does not guarantee fund disbursement for any faculty member or student.
- All achievements eligible for incentives must explicitly mention the affiliation with "**Bhagwan Parshuram Institute of Technology**". The **Research Advisory Committee of BRDC** will review the incentive claim applications and propose a list of candidates recommended for incentives, subject to the approval of the **Chairman of BPIT**.
- For requisitions or queries, drop a mail at researchcell@bpitindia.com

5a. Application of the Policy

The incentive policy on Research Development and Innovation applies to all regular faculty members and students across BPIT's departments. It ensures that research efforts align with institutional goals and contribute to academic and societal progress.



5b. Fundamental Principles

Apart from teaching, a key responsibility of any academic institute is to promote high-quality research, ensure its dissemination to a wider scholarly and research audience, and enable its application to improve productivity and quality of life. The performance of an institution is often evaluated based on research outcomes such as **publications, patents, copyrights, research grants, consultancy and revenue generation.**

BPIT aims to cultivate a strong research environment by engaging its faculty and students at all levels, enhancing their learning curve and research competencies. To encourage, motivate and strengthen the existing culture of research and innovation, the following are the key performance indicators for claiming any assistance from BRDC.

❖ Research Paper Publication

- i. BPIT prioritises research-driven teaching and strongly encourages faculty members and students to publish papers in high-quality, indexed journals with significant impact factors. Each faculty member is required to publish a minimum of **one research paper annually** in an SCI/SCIE/ESCI/SCOPUS-indexed journals (*refer to Appendix B*).
- ii. Faculty mentors are encouraged to assist a group of **2-3 final or pre-final year students** in publishing research or review papers in reputed journals.
- iii. Plagiarism detection software is available at the institute, and **HODs** and faculty members are encouraged to utilise this facility to ensure high-quality publications.
- iv. Once a research paper is published in an SCI/ESCI/SCOPUS-indexed journals, the respective faculty member or student shall present the work before the **BRDC Advisory Committee**.

❖ Research Projects and Other Research-Related Activities

- v. All teaching faculty members, including professors, are encouraged to submit research projects for funding from external agencies such as **DST, DRDO, UGC, AICTE, CSIR, etc.** (*refer to Appendix A*).
- Note:** Submission of at least **one research project per department annually** is desirable.
- vi. Project Investigators (PIs) and Co-Project Investigators (Co-PIs) will be eligible for an **honorarium**, depending on the grant received by BPIT.
 - vii. Faculty members who complete a course on the **Swayam Portal** of the Government of India, with a minimum score of **75%**, will be awarded a **Certificate of Appreciation** upon submission of the pass certificate.
 - viii. Faculty members who receive **state, national, or international recognition** in the form of awards or fellowships will also be honoured with a **Letter of Appreciation** from BPIT.



5c. BRDC Incentive Policies

- i. Faculty members or students of BPIT who have worked to write and publish books are encouraged, and an incentive will be granted to them as per the cap provided in Table 1.

Table 1: Grant of Fund for Publication of Book/Book Chapter (s) [Appendix C]

a.	Full Book published by renowned International Publishing House *	INR 20,000
b.	Full Book published by renowned National Publishing House*	INR 10,000
c.	Edited volume of book with articles or chapters (in International Publishing)	INR 5000
d.	Chapter Contribution as first OR corresponding author (SCI or SCIE Indexed)	INR 5000
e.	Chapter Contribution as first OR corresponding author (other reputed indexed)	INR 2000

- ii. Publication of scientific articles in SCI/SCIE/ESCI/SCOPUS indexed journals as the first or corresponding author, shall be awarded as per Table 2.

Table 2: Grant of Fund for Publication of Journal Articles (s)

S.No.	Description	Incentive
a.	SCI/SCIE Indexed journal*	INR 7000
b.	ESCI Indexed Journal*	INR 4000
c.	Scopus Indexed Journal*	INR 4000

*Non-paid hybrid Journals

- iii. Applicants filing a patent shall be awarded based on Table 3.

Table 3: Funds for patent publications

Description	Distribution of Funds
Publication of Patent (International)	INR 7000
Publication of Patent (National)	INR 4000
Grant of Patent (International)	INR10,000
Grant of Patent (National)	INR5000



- iv. In case the publication is in joint names/ authorship, the incentive shall be distributed as given in Table 4.

Table 4: Distribution of Granted Funds for Journal/Book publication

Description	Distribution of Granted Funds
All authors have BPIT affiliation	Equally
Inter Institute Collaboration (first OR corresponding author having BPIT affiliation)	Full amount

- v. **Faculty members receiving state/national/international awards or fellowships** shall be suitably recognized and awarded.
- vi. An **Annual Best Researcher Award** will be presented to faculty members based on parameters evaluated by a committee constituted by the competent authority. The award will include a **certificate and a token of Appreciation**.
- vii. The **faculty member of the Institute possessing the highest H-index and citation count** may be honored with a **certificate and a memento**.
- viii. For faculty members completing **FDP programs from NPTEL**, the **examination fee will be refunded** upon submission of the certificate of successful completion with 70%.

6. Terms and Conditions

- Period of Consideration:** The incentive period shall run from **1st January to 31st December**. Only regular faculty members of BPIT are eligible.
- Equitable Policy:** The policy is not influenced by an employee's race, religion, or gender.
- Non-Entitlement:** Research incentives are not entitlements and cannot be claimed as a matter of right. The granting of incentives is contingent upon the submission of the requisite documentation and a formal application. (*Refer to Annexure I*).
- Financial Support Exclusion:** Any research article that has already been financially supported by BPIT will not qualify for publication incentives. However, such publications will count toward fulfilling the annual assessment criterion for appraisal.
- Faculty Resignation Clause:** All benefits and incentives will lapse if, on the date of disbursal, the faculty member has already left the organization or is serving a notice period. However, students will remain eligible for incentives for up to **one year after graduation**.
- Conference Reimbursement Clause:** Faculty members seeking reimbursement for attending National or International conferences are required to present their research findings or share insights gained from the event. The coordination of these presentations will be managed by the **BRDC**.



7. **Application Review Process:**
 - The BRDC will review incentive applications based on the submitted evidence.
 - A final list of recommended candidates as reviewed by the **Research Advisory Committee** will be presented to the **Hon'ble Chairman** for final approval.
8. **Evidence Requirement:** Faculty members must provide evidence of having published a paper in a **refereed journal** (with an impact factor).
9. **Policy Modification Clause:** BPIT reserves the right to **withdraw or modify** the incentive policy at any time without prior notice. Any changes to criteria or modalities will be duly communicated and implemented by the institution.
10. **Research Authorship:**
 - 1) **Authorship Designation:** The primary contributor to the research project, typically the student conducting the study, shall be designated as the first author. The mentor or advisor, who provides guidance, oversight, and support, shall be designated as the corresponding author.
 - 2) **Authorship Agreement:** Roles and responsibilities related to authorship must be discussed and mutually agreed upon at the initiation of the research project.
 - 3) **Acknowledgment of Contributions:** All contributors to the research must be appropriately recognized to uphold the integrity of the research and foster an environment of mutual respect and academic transparency.
 - 4) **Conflict Prevention:** Adherence to these guidelines is essential to prevent disputes related to authorship and to maintain ethical standards in research collaborations.

This policy aims to foster a culture of excellence, innovation, and collaboration in research and development across BPIT while ensuring transparency and recognition of faculty and students' contributions.

S.N.Jha
(S.N.Jha)
Director (Acad.)

[Signature]

[Signature]
Dean (Admin)

Rajesh Sharma
Coordinator, IOAC - Cell

[Signature]
Head, BRDC

[Signature]
S. Tiya

[Signature]
HOD-17

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HOD-EEE

Approved as
proposed
Mant

[Signature]



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Appendix A Funding Agencies

Table 1: List of funding agencies with website links (as on 5.12.24)

No.	Funding Agency	Link
	Department of Science and Technology (DST)	https://dst.gov.in/
	University Grants Commission (UGC)	https://www.ugc.gov.in/
	AICTE	https://www.aicte-india.org/schemes
	Education Department (Govt. of NCT)	https://www.edudel.nic.in/
	Department of Food Processing Industries Govt. of India	https://www.mofpi.gov.in/
	Guru Gobind Singh Indraprastha University (GGSIPU)	www.ipu.ac.in
	National Information System for Sci. & Technology (NISSAT)-Technology Absorption and Adaptation Scheme	https://www.dsir.gov.in/
	Department of Space (DOS)	https://www.isro.gov.in/
	Science and Engineering Research Council (SERC)	https://dst.gov.in/serc-cell
	Anusandhan National Research Foundation	https://serb.gov.in/page
	Science for Society Programmes	https://dst.gov.in/science-society-programmes
	Utilization of the Scientific Expertise of Retired Scientists (USERS)	https://indiabioscience.org/grants/utilisation-of-the-scientific-expertise-of-retired-scientists-users

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ii.	Special Component Plan	https://pib.gov.in/newsite/printrelease.aspx?relid=11824
v.	Natural Resources Data Management System (NRDMS)	https://www.indiascienceandtechnology.gov.in/programme-schemes/research-and-development/natural-resources-data-management-system
.	Science and Society	https://www.scienceandsociety-dst.org/
i.	Board of Research in Nuclear Sciences (BRNS)	https://brns.res.in/about_us.php
i.	Department of Non-Conventional Energy Sources (DNES)	https://mnre.gov.in/

**Appendix B****Indexing**

SCI, SCIE and ESCI are journal indexes that help researchers evaluate the quality and impact of research:

- **SCI**

Stands for Science Citation Index, which is a multidisciplinary citation index.

- **SCIE**

Stands for Science Citation Index Expanded, which is a larger version of the SCI that covers over 9,000 journals across 177 scientific disciplines.

- **ESCI**

Stands for Emerging Sources Citation Index, which focuses on emerging and influential journals in various disciplines.

All three indexes are published and maintained by Clarivate Analytics as part of the Web of Science citation index. Journals are indexed in these indexes based on criteria such as Editorial board publication history, Significance of the content, Quality and Impact.

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Appendix- C Approved National/International Publication Houses

National Publication Houses	International Publication Houses
McGraw-Hill Education India	Elsevier
Pearson India	Springer
Vikas Publishing House	Wiley
Cengage Learning India	CRC Press (Taylor & Francis Group)
Laxmi Publications	Cambridge University Press
S. Chand & Company	Oxford University Press
Wiley India	McGraw-Hill Education
Alpha Science International	Prentice Hall (Pearson Education)
New Age International Publishers	Routledge (Taylor & Francis)
Tata McGraw-Hill Education (now McGraw-Hill India)	IEEE (Institute of Electrical and Electronics Engineers)
Bharati Bhavan Publishers & Distributors	Hachette Book Group
I.K. International Publishing House	MIT Press
Shroff Publishers & Distributors	Academic Press (Elsevier)
Dreamtech Press	John Wiley & Sons
SciTech Publishers	Woodhead Publishing (Elsevier)
Pearson	World Scientific Press

Appendix- D

The process of research approval at BPIT follows a structured flow to ensure proper review and fund disbursement. The steps are outlined below:

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1. Application Submission:

- The applicant submits an "Application Form with Documents" to the "Head of Department / respective R&D Coordinator."

2. Review Process:

- The "Head of Department / respective R&D Coordinator" forwards the application to BRDC email ID: researchcell@bpitindia.com
- The "BRDC" submits the application to the "Research Advisory Committee" for evaluation.
- If required, the "Research Advisory Committee" may send the application back to the "Head of Department / respective R&D Coordinator" for additional information.

3. Approval & Disbursement:

- After review, the "Research Advisory Committee" forwards the application to the "Hon'ble Chairman."
- Upon final approval by the "Hon'ble Chairman," the application is sent to the "Accounts Office for Disbursement" for fund allocation.

Through HOD ECE

To,

The principal,
BPIT,
Rohini, Delhi

Copy: Prof. Rajiv
Ms. Sajag
Ms. Mamta

Pls. record the amount sanctioned
26/9/24

Date: September 23, 2024

Subject: Request for attending offline workshop on "Design and Development of Antennas and RF Components for 5G Wireless Communication" at IIT Allahabad from 26-09-2024 to 27-09-2024 (OFFLINE).

Respected Ma'am.

We, the faculties of ECE Department have registered for the offline 5-day workshop on "Design and Development of Antennas and RF Components for 5G Wireless Communication" at IIT Allahabad from 23rd Sep 2024 to 27th September. The brochure and confirmation email are attached herewith for your reference. On our request, we are allowed to attend three days workshop in the online mode and last two days in the offline mode at IITA. We have completed the syllabus for the upcoming mid term exams and ensure that the classes are adjusted.

The topic of workshop is pertinent for our research work as the topic aligns closely with the major domain of our study and the fabrication part will also be covered in the workshop. Attending this workshop in person will provide us with the opportunity to gain deeper insights, engage in hands-on learning, and interact with experts in the field, which we believe will significantly benefit our ongoing research efforts.

We, therefore, kindly request you to give us permission and allow to attend the above workshop in the offline mode from 26th Sep 2024 to 27th Sep 2024 (2 days). The tickets are booked and a copy of the tickets is attached herewith.

Thank you for considering our application. We look forward to your positive response.

Yours sincerely,

Usha Sharma
23/9/24
Dr. Usha Sharma
(Assistant Professor, ECE)

Megha Aggarwal
23/9/24
Dr. Megha Aggarwal
(Assistant Professor, ECE)

Ms. Monika Kaushik
23/9/24
Ms. Monika Kaushik
(Assistant Professor, ECE)

Principal Mam,

You are requested to allow aforementioned faculty members of ECE to attend the workshop

Hon'ble Chairman (BPIT)

Rajiv Sharma
23/9/24

Kindly allow them special
privileges to attend along with

Rs 2500/- to each towards expenses for attending the workshop.

Approved
as per
23/9/24



From Concept to Reality

A Hands-on Workshop on Design and Development of Antennas and RF Components for 5G Wireless Communication

Designing a workshop around the theme of "Design, Simulate, Fabricate, and Test" Antennas and RF components can be both engaging and educational

Organized by

RF & Wireless Research Laboratory, Indian Institute of Information Technology, Allahabad

in Association with

Entuple Technologies Pvt. Ltd., Bangalore



About IIT, Allahabad :

IIT - Allahabad, established in 1959, is a premier institution focused on Information Technology (IT) and related fields. It gained "Deemed University" status in 2000 and was recognized as an "Institute of National Importance" by the Government of India in 2014. The institute aims to cultivate professional expertise and skilled manpower in IT and allied research, contributing significantly to India's capabilities in IT and allied sectors globally.

Located on a scenic 100-acre campus at Deoghat, Jhalwa, designed in Penrose Geometry pattern, IIT-A features extensive landscaping for a stimulating environment. The campus, envisioned as fully residential, accommodates faculty, staff, and students across various areas, all interconnected through the Institute's network.

About Entuple Technologies :

Headquartered in Bangalore, India, Entuple Technologies was founded on January 1, 2010 by professionals with a combined experience of over 80 years in the Electronics Industry. The name "Entuple" signifies enabling multidimensional possibilities and growth for stakeholders. The management team, with diverse experience in Aerospace, Defence, Small and Medium Business, Research, and Academic, collaborates to develop cutting-edge system design technologies.

By partnering with technology leaders such as Ansys, Cadence, Anritsu, MITS, Bungard, PTC, EOS, Entuple fosters a dynamic eco-system for customers. In India's emerging market, Entuple focuses on advancing R&D across various domains and closing industry-education gaps through innovative platforms and solutions.

About the workshop :

From Concept to Reality: A Hands-On Workshop on Design and Development of Antennas and RF Components for 5G Wireless Communication is an immersive and comprehensive training program aimed at engineers, researchers, and enthusiasts in the field of wireless communication. This workshop provides a deep dive into the intricacies of antenna and RF component design tailored for the burgeoning 5G technology. Following the theoretical foundation, the workshop transitions to hands-on sessions where participants will engage in the design and simulation of antennas using advanced software tools. Attendees will learn how to optimize antenna parameters for performance, efficiency, and compactness. Also, have an insight into fabrication MITS machine from Japan and testing them on Anritsu VNA.

This workshop is ideal for professionals looking to enhance their skills, students preparing for careers in wireless communication, and anyone passionate about the future of connectivity. Join us in this transformative learning experience and take your first step from concept to reality in the world of wireless communication.

Objectives :

- To understand the state-of-the-art antenna design for ubiquitous wireless communication
- To learn simulation techniques for antenna performance prediction.
- To get hands-on experience with fabrication processes.
- To test and analyse the performance of fabricated antennas.

Key Topics to be Addressed :

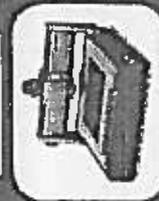
- Introduction to Computational Electromagnetics
- Narrowband, Wideband antenna and RF filters
- Antenna Arrays
- Metamaterials/FSS/AMC
- Wearable Antenna
- Biomedical Engineering with Multiphysics
- 5G Digital Twin concept
- Hands-on session on Fabrication Technology with MITS-Japan
- Hands-on Testing RF components with VNA and associated components upto 40GHz with 5G technology

Technological Partners (OEMs) :

Anritsu



MITS



ENTUPLE TECHNOLOGIES



Ansys



Workshop Outcome :

Participants will gain a comprehensive understanding of the end-to-end process involved in designing, simulating, fabricating, and testing antennas, equipping them with the skills to undertake their own antenna projects.

Important Dates :

- Registration starts on 1st Aug and ends on 31st Aug 2024
- Confirmation from the Institute will be sent on 5th Sep 2024
- Confirmation will be based on merit and first-come, first-served basis only

WORKSHOP DATES : 23rd Sep to 27th Sep 2024

VENUE : ECE Department, IIT - Allahabad

WHO CAN ATTEND :

Faculty members and Research scholars

CHIEF GUEST :

Prof. Mukul S. Sutaone

Director,
IIT, Allahabad

SPECIAL GUEST :

Mr. Mehta S. D.

Founder & Director,
Entuple Technologies

GUEST OF HONOUR :

Prof. Kumar Vaibhav Srivastava

Professor,
Department of Electrical Engineering,
IIT Kanpur

Prof. Manoj Kumar Meshram

Professor,
Department of Electronics Engineering,
IIT BHU

IIT Allahabad Coordinators :

Coordinator :

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Co-coordinators :

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Prof. Neetesh Purohit
Professor
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Dr. Suneel Yadav
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Assistant Professor
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Regional Manager
Email: skaggarwal@entuple.com
Mobile: 95990 39671

Mr. Durgesh Tripathi
Sales Engineer
Email: durgesh@entuple.com
Mobile: 95996 64657

Workshop fee details :

- Registration Charges without accommodation: Rs. 600
- Accommodation Charges in Hostel for Students (Twin Sharing Basis) for 5 days: Rs. 1690
- Accommodation Charges in Guest House for Faculty / Industry Professionals (Twin Sharing Basis) for 5 days: Rs. 3960
- Note: Food charges are to be paid at the mess as per actual consumption.

Registration Link :

<https://forms.gle/EeMQSyeBwoSbCRcj6>



Scan QR
to Register

Special Note :

- Certificates will be provided to all participants who achieve 100% attendance.
- All Hands-on sessions will be provided by industry experts from Entuple Technologies on Ansys Tools, MITS Machines and Anritsu Equipment.
- The maximum number of participants will be 50. Merit will be based on a first-come, first-served.
- Accommodation will be provided based on availability and only for participants from outside the area.

Date	10:00-11:00 AM	11:00-11:30 AM	11:30-12:30 PM	12:30-01:00 PM	1:00-2:30 PM	2:30-6:30 PM
23/09/2024 (Day-1)	Inauguration Session Rooms: Admin Auditorium	Tea Break	Keynote Session Prof. Kumar Vaibhav Srivastava, IIT Kanpur Room: Admin Auditorium	Short visit to 'RF & Wireless Research Lab' of the participants	Lunch	HFSS Session-1 (Room No-2304, CC3) (i) Introduction of Ansys Electronics Product Package (ii) Introduction of AIH (Ansys Learning Hub) and AIC (Ansys Innovation Course) (iii) Basic parameters of Antenna and its understanding in practical implications (iv) Hands-on session on using Ansys HFSS tool Tea Break (4:00-4:15 PM)
24/09/2024 (Day-2)		HFSS Session-2 (Room No-2304, CC3) (i) Hands-on session on Design of Microstrip patch Antenna in HFSS (ii) Validating the results and analysis of the same. (iii) Creating the Chamfer/Fillet and Check for RHP and LHP Tea Break (11:30-11:45 PM)		Lunch		HFSS Session-3 (Room No-2304, CC3) (i) Design and analysis of Microstrip Patch Antenna Array parameters and Optimetrics Techniques Using Electronics desktop (ii) Design and analysis Microstrip patch antenna. With circuits and Check the network Matching using Smith Chart Tool Tea Break (4:00-4:15 PM)
25/09/2024 (Day-3)		HFSS Session-4 (Room No-2304, CC3) (i) Design of Wilkinson power divider (ii) Design and analysis of the Bandpass Filter Tea Break (11:30-11:45 PM)		Lunch		HFSS Session-5 (Room No-2304, CC3) (i) Design and analysis of Dual Band Meta Surface (ii) Design and Analysis of Metamaterials as Absorbers Tea Break (4:00-4:15 PM)
26/09/2024 (Day-4)		Fabrication, Testing & Measurement Session-1 (Room no-2114 CC1) Tea Break (11:30-11:45 PM)		Lunch		Fabrication, Testing & Measurement Session-2 (Room no-2114 CC1) Tea Break (4:00-4:15 PM)
27/09/2024 (Day-5)		Fabrication, Testing & Measurement Session-3 (Room no-2114 CC1) Tea Break (11:30-11:45 PM)		Lunch		Victory Session (3:30 to 4:30 PM)



Megha Agarwal <meghaagarwal.87@gmail.com>

Fwd: Booking Confirmation on IRCTC, Train: 12418, 25-Sep-2024, 2A, NDLS - PRYJ

2 messages

Shivank Jindal <shivankjindal@gmail.com>
To: Megha Agarwal <meghaagarwal.87@gmail.com>

Mon, Sep 9, 2024 at 11:18 PM

Shivank Jindal
+91-9811190507

Forwarded message

From: <ticketadmin@irctc.co.in>
Date: Mon, 9 Sep 2024 at 11:15 PM
Subject: Booking Confirmation on IRCTC, Train: 12418, 25-Sep-2024, 2A, NDLS - PRYJ
To: <shivankjindal@gmail.com>

This is a system generated mail. Please do not reply to this email ID. (1) Call our 24-hour Customer Care (2) Email Us at care@irctc.co.in

Ticket Confirmation

Dear Shivank Jindal (User ID: shivank_5),
Thank you for using IRCTC's online rail reservation facility. Your booking details are indicated below.

PNR No.:	2421425785	Train No./Name:	12418 / PRAYAGRAJ EXP	Coach:	WARRHAL
Transaction ID:	180085240304408	Date & Time of Booking:	09-Sep-2024 11:14:02 PM HRS	Class:	SECOND AC
From:	NEW DELHI (NDLS)	Date of Journey:	25-Sep-2024	To:	PRAYAGRAJ JN. (PRYJ)
Boarding At:	NDLS	Date Of Boarding:	25-Sep-2024	Scheduled Departure:	25-Sep-2024 22:10
Reservation Up to:	PRAYAGRAJ JN. (PRYJ)	Scheduled Arrival:	26-Sep-2024 07:00	Adult: 3	CHD: 0
Passenger Mobile No.:	9811190507	Distance:	0306KM		

Passenger Details

SL No.	Name	Age	Gender	Layering service Option	Status	Coach	Seat / Berth / WL No
1	MEGHA AGARWAL	26	Female	N/A	LNF	A3	31
2	USHA SHARMA	40	Female	N/A	CHF	A5	33
3	MONIKA KAUSHIK	37	Female	N/A	CHF	A5	32

Fare Details (Inclusive of GST)

Ticket Fare	Convenience Fee	Total Fare
Rs. 4290.00	Rs. 33.40	Rs. 4323.40 *

* Payment Gateway charges as applicable.

Must Read

- Please take a screenshot of ERS (i.e. Virtual Reservation Message (VRM)) OF YOUR TICKET FROM YOUR Booked Tickets History page. You have to carry this VRM or SMS send to you along with any Govt. approved ID Card during train journey in original. Both the SMS or VRM's original ID will be reviewed by ticket checking staff on stations/trains for verification purposes. List of Govt. auther 2nd ID Cards permissible for undertaking journey on reserved tickets.
- This ticket is booked on a personal user ID and can not be sold by an agent. If bought from an agent by any individual, it is at his/her own risk.
- Passengers are advised not to carry inflammable/dangerous/explosive articles as part of their luggage and also to abstain from smoking in the train.

How to

- Cancel your e-ticket: File TDR for e-ticket.
- Change boarding point on e-ticket.
- Change in berth on a reserved ticket.
- Railway Refund Rule

Customer Care

- For any further assistance, please contact us at 24*7 Hrs Customer Support at 14246 (Language: Hindi and English) or mail us at care@irctc.co.in
- Just dial 139 from your landline/mobile R. CDMA phones for call-free enquiries.
- For any enquiries or information regarding your transaction with IRCTC, do not provide your credit/debit card details by any means to IRCTC. All your queries can be replied on the basis of 15 digit IRCTC Transaction ID/10 digit PNR no./User ID. IRCTC does not store the credit/debit card information in any form during the transaction.

Book Hotels

Booked your train ticket, now complete it with booking the hotels on IRCTC website for a wonderful stay. "Book Now!"

To book and get food delivered on your train berth, please call IRCTC Toll free No. 1323 or log in at www.getting.irctc.co.in

Please don't print unless extremely necessary.

Warm Regards,
Customer Care
Internet Ticketing
IRCTC

Megha Agarwal <meghaagarwal.87@gmail.com>
To: Monika Kaushik <kaushikmonika52@gmail.com>, usha1984sharma@gmail.com

Mon, Sep 9, 2024 at 11:19 PM

[Quoted text hidden]



Megha Agarwal <meghaagarwal.87@gmail.com>

Fwd: Booking Confirmation on IRCTC, Train: 12417, 27-Sep-2024, 2A, PRYJ - NDLS
2 messages

Shivank Jindal <shivankjindal@gmail.com>
To: Megha Agarwal <meghaagarwal.87@gmail.com>

Mon, Sep 9, 2024 at 11:16 PM

Shivank Jindal
+91-9811196507

Forwarded message

From: <ticketadmin@irctc.co.in>
Date: Mon, 9 Sep 2024 at 11:09 PM
Subject: Booking Confirmation on IRCTC, Train: 12417, 27-Sep-2024, 2A, PRYJ - NDLS
To: <shivankjindal@gmail.com>

This is a system generated mail. Please do not reply to this email ID. (1) Call our 24-hour Customer Care (2) Email us at care@irctc.co.in

Ticket Confirmation



Dear Shivank Jindal(Username: shivank_53),
Thank you for using IRCTC's online rail reservation facility. Your booking details are indicated below.

PNR No.:	254088888	Train No./Name:	12417 / PURAYAGRAJ EXP	Coach:	4C/96494L
Transaction ID:	100061210306184	Date & Time of Booking:	09-Sep-2024 11:08:29 PM HRS	Class:	SECOND AC
From:	PRAYAGRAJ JN. (PRYJ)	Date of Journey:	27-Sep-2024	To:	NEW DELHI (NDLS)
Boarding At:	PRYJ	Date Of Boarding:	27-Sep-2024	Scheduled Departure:	27-Sep-2024 22:10
Reservation Up to:	NEW DELHI (NDLS)	Scheduled Arrival:	28-Sep-2024 07:00	Adults:	3
Passenger Mobile No.:	9811196507	Distance:	838KM	Child:	0

Passenger Details

Sl. No.	Name	Age	Gender	Catering Service Option	Meal	Curr	Seat / Berth / W / Bn
1	MEGHA AGARWAL	36	Female	NA	CNF	AS	41
2	USHA SHARMA	40	Female	NA	CNF	AS	38
3	MONIKA KAUSHIK	37	Female	NA	CNF	AS	40

Fare Details (Inclusive of GST)

Ticket Fare	Convenience Fee	Total Fare
Rs. 4280.00	Rs. 25.40	Rs. 4325.40 *

* Payment Gateway charges as applicable.

Must Read

- Please take a screenshot of ERM (i.e. Virtual Reservation Message (VRM)) OF YOUR TICKET FROM YOUR booked Tickets History page. You have to carry this VRM or SMS sent to you along with any Govt. authorized ID Card during train journey in original. Both the VRM or original ID will be examined by ICR at checking stall on stations/trains for verification purpose. List of Govt. authorized ID Cards permissible for undertaking journey on reserved tickets.
- This ticket is booked on a personal user ID and can not be sold by an agent. If bought from an agent by any individual, it is at his/her own risk.
- Passengers are advised not to carry inflammable/dangerous/explosive articles as part of their luggage and also to abstain from smoking on the train.

How to

- Cancel your order: File TDR for e-ticket
- Change train/journey on e-ticket
- Change of name on a reserved ticket
- Waiver Refund Rules

Customer Care

- For any further assistance, please contact us at 24*7 Hrs Customer Support at 14648 (Language: Hindi and English) or mail us at Care@irctc.co.in.
- 14648 134 from your mobile, and 56 & 62114 from your landline numbers.
- For any queries or information regarding your transaction with IRCTC, do not provide your credit/debit card details by any means to IRCTC. All your queries can be replied on the basis of 15 digit IRCTC Transaction ID (e.g. PNR) or User ID. IRCTC does not store the credit/debit card information in any form during the transaction.

Book Hotels

Finalize your train ticket, now complete it with booking the hotels on IRCTC website for a wonderful stay. "Book Now!"

To book and get food delivered on your train berth, please call IRCTC Toll free No. 1323 or log in at www.catering.irctc.co.in

Please don't print unless extremely necessary

Warm Regards,
Customer Care
Internet Ticketing
IRCTC

Megha Agarwal <meghaagarwal.87@gmail.com>
To: Monika Kaushik <kaushikmonika52@gmail.com>, usha1984sharma@gmail.com

Mon, Sep 9, 2024 at 11:19 PM

[Quoted text hidden]



Megha Agarwal <meghaagarwal.87@gmail.com>

Re: Reg: Registration confirmation of Antennas and RF Components workshop for 5G Wireless Communication

3 messages

Amar Nath Yadav <amarnath@iiita.ac.in>

Thu, Sep 19, 2024 at 1:22 PM

To: Shashikant Verma <shashikantverma7@gmail.com>, Megha Agarwal <meghaagarwal.87@gmail.com>, monika kaushik <kaushikmonika52@gmail.com>, usha1984sharma@gmail.com, Sangam Borkar <sangamborkar2015@gmail.com>

Cc: Pooja Mishra <pooja@iiita.ac.in>, Suneel Yadav <suneel@iiita.ac.in>, "Prof. Neetesh Purohit IIITA Prayagraj" <np@iiita.ac.in>, "Dr. Himanshu Maurya" <hmaurya@iiita.ac.in>

Dear Participants,
Greeting from IIIT Allahabad!!

This is to inform you that your accommodation has been arranged in Visitor Hostel-1 (VH-1) of IIIT Allahabad for the upcoming workshop. The accommodation will be ready by 22nd September evening. Upon arrival, you are requested to visit the visitor hostel-1 (VH-1) for the accommodation.

Those who have not paid the guest house charges (except Mr. Shashikant Verma), need to pay the charges directly at the VH-1 reception. The charges are given below:

- (i) Single occupancy - 800+GST(12%) per day
- (ii) Double occupancy-1200+GST(12%) per day

Thanks and Regards,
Dr. Amar Nath Yadav
Assistant Professor
Department of ECE, IIIT Allahabad

On Thu, Sep 5, 2024 at 4:31 PM Amar Nath Yadav <amarnath@iiita.ac.in> wrote:

Dear Candidate,
Greeting from IIIT Allahabad!!

This is to inform you that your registration of Antennas and RF Components workshop for 5G Wireless Communication at IIIT Allahabad has been confirmed. You have opted for "workshop registration with Guest House accommodation", therefore a visitor hostel accommodation will be provided to you. The information related to accommodation will be shared later on.

You are requested to report at IIIT Allahabad by 23rd September 2024 at 9:00 AM. The complete programme schedule will be shared later on.

Thanks and Regards,
Dr. Amar Nath Yadav
Assistant Professor
Department of ECE, IIIT Allahabad

Shashikant Verma <shashikantverma7@gmail.com>

Thu, Sep 19, 2024 at 1:51 PM

To: Amar Nath Yadav <amarnath@iiita.ac.in>

Cc: Megha Agarwal <meghaagarwal.87@gmail.com>, monika kaushik <kaushikmonika52@gmail.com>, usha1984sharma@gmail.com, Sangam Borkar <sangamborkar2015@gmail.com>, Pooja Mishra <pooja@iiita.ac.in>, Suneel Yadav <suneel@iiita.ac.in>, "Prof. Neetesh Purohit IIITA Prayagraj" <np@iiita.ac.in>, "Dr. Himanshu Maurya" <hmaurya@iiita.ac.in>

Thank you for the information.
i will arrive Allahabad in the morning of 23rd September 2024
[Quoted text hidden]