

**Government of West Bengal**  
**Department of Science & Technology and Biotechnology (DSTBT)**  
**Vigyan Chetana Bhavan, Block-DD, Plot-26/B,**  
**Sector-I Salt Lake, Kolkata-700064**

**Application Format for Science Popularization Programme**

1. Programme Type (ref SN 11 of the Memorandum): **Faculty Development Program**
2. Title of the proposed Programme: **Intelligent Healthcare Technologies: Harnessing IoT, Cloud, and AI for Medical Innovation**
3. Target Group (Faculty, Teacher, Research Scholar, School/College/ University Student, Community): **Faculty, Teacher, Research Scholar, University students**
4. Duration (days): 5 ; Tentative Dates of the proposed Programme: ..... 27<sup>th</sup> January to 31<sup>st</sup> January, 2026.....
5. Aims, Objectives and Details of the Programme (attach separate sheet, if necessary): **Additional sheet added**
6. Name, Designation, Postal Address, mobile no. and e-mail id of the (only one) Programme Co-ordinator (PC) (attach separate sheet, if necessary):  
Prof. (Dr.) Indrajit de, Professor, Institute of Engineering & Management, Kolkata, Management House, D-1, Sector-V, Saltlake Electronics Complex Kolkata – 700 091, West Bengal, India, Contact Number:
7. Legal status of the Institute (School/College/ University/ Institute/ Polytechnic/ ITI/ Autonomous body/ registered NGO/ Trust etc.): **Private Engineering College under Trust**
8. Date wise detail Programme Schedule (attach separate sheet, if necessary): **Separate Sheet included**.
9. Collaborating Institutions/ Organizations, if any, with their specific contribution: **NA**
10. Expected number of participants and list of Resource Persons/ Invited Speakers: **Expected number of participants is 60. Extra sheet is added for the list of Resource Persons/ Invited Speakers**
11. Give details of the grant received from DSTBT in last three Financial Years, if any alongwith the date of submission of UC, Audited SoE, Report etc.: ... **NA** .....
12. Name and address of the authority to whom the allotted amount is to be credited (if sanctioned) who will also be responsible for submitting the UC, audited SoE, Programme Completion Report, Feedback, Still and Video photographs etc. of the grant: ..... The amount (if sanctioned) is to be credited to: Prof (Dr) Arun Kumar Bar, Principal, Institute of Engineering and Management, Saltlake, Kolkata-700091. ..... The person responsible for other works: Prof(Dr) Indrajit De, Professor, Department of CSE(AIML), CSBS, Institute of Engineering and Management, Kolkata – 700091.....
13. Total Estimated Expenditure (A)/ Organisation's contribution (B)/ Contribution from any other sources (C) / Grant expected from DSTBT(D):  
**D : ₹.....1.6Lakhs..... = (A: ₹...1.6 Lakhs.....– B: ₹.....0..... – C: ₹.....0..... )**  
(provide detail Budget break-up as per Annexure-I and Bank details as per Annexure-II):

Check List (put tick) of attachments to be submitted with the application

- Proposed Total Budget with break-up (Annexure-I) and Bank Details (Annexure-II) in Institute/ Organization's letter head: **YES/NO**
- For registered NGO/ Trust, filled in Application Format recommended by the appropriate Recommending Authority, viz., Jt.BDO/ BDO/ SDO/ DM/ Executive Officer- Municipality/ Commissioner-Municipal Corporation as the case may be (where the programme is actually going to be held): **YES/NO**
- For registered NGO/ Trust, attested copies of the registration certificate, latest renewal certificate, Memorandum and Rules & Regulations of the Organization, last three years Audited Statement of Accounts, Annual Reports etc., List of recommended beneficiaries: **YES/NO**

DECLARATION

Certified that the details furnished in the filled in format are correct to the best of our knowledge & belief and that the amount of financial assistance, if sanctioned, will be utilized for the purpose for which it is granted within the time as prescribed by DSTBT. We also undertake to abide by the General Guidelines and Terms & Condition prescribed by DSTBT and provide due coverage to DSTBT during the Programme and publications/ print and electronic media made from the Programme in future. We also declare that within one month after completion of the Programme we shall submit the Utilisation Certificate (UC), Audited Statement of Expenditure (Audited-SoE), Programme Completion Report, Feedbacks from the Participants, still and video photographs etc.

*Indrajit De*

**Signature:**

**Date:** 15.12.2025

**Name of Programme Coordinator:**

**Prof (Dr) Indrajit De**

**Designation:** Professor

**Address:**

Institute of Engineering and Management,  
Saltlake, Kolkata-700091

**Signature:** *Kumar Bar*

**Date:**



**Prof. Dr. Arun Kumar Bar**  
**Principal**  
Institute of Engineering & Management  
Sector-V, Salt Lake Electronics Complex  
Kolkata-700091

**Name of Head of the Institution:**

**Designation:** Principal

**Address:** *Institute of Engineering  
and Management, Kolkata*

**(Office Seal)**



**INSTITUTE  
OF ENGINEERING & MANAGEMENT**

(School of University of Engineering and Management Kolkata)  
Y-12, Sector - V, Salt Lake Electronics Complex, Kolkata- 700091, WB, INDIA

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(033) 2357 8189/8908/5389  
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E-mail : director@iem.edu.in  
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Annexure-I

Proposed Total Budget with break-ups

A. Total Estimated Expenditure

Sl. No.	Items required with justification and rate	Total Expenditure (A) (₹)
1.	Honorarium to Resource Persons/ Experts	50000
2.	Study materials, Consumables expenses	3000
3.	Hall rent, if any	
4.	Publicity materials	7000
5.	Travel expenses	10000
6.	T.A. to the external Resource Persons/ Experts	10000
7.	Documentation expenses including audio-visual	25000
8.	Light refreshments	30000
9.	Auditors' fee	8000
10.	Other expenses, if any (please specify) Generator backup for electricity	15000
<b>Grand Total Expenditure (₹):</b>		<b>160000</b>

Please mention:

B. Institution/ Organization Contribution\* in ₹0

C. Contribution from any other sources (with name & Address) in ₹0

D. Grant expected from DSTBT (₹) = (A-B-C) 1.6 Lakhs



**Prof. Dr. Arun Kumar Bar**  
Principal  
Institute of Engineering & Management  
Sector-V, Salt Lake Electronics Complex  
Kolkata-700091

*Kumar Bar 15/2025*

Signature of Authorised Personnel with seal

If C= 0

Undertaking: This organization/ institution is not receiving any kind of financial assistance from any other sources



*Kumar Bar 15/2025*

Signature of Authorised Personnel with seal



**Prof. Dr. Arun Kumar Bar**  
Principal  
Institute of Engineering & Management  
Sector-V, Salt Lake Electronics Complex  
Kolkata-700091

\*At least 10% of the total budget contribution from the Institute/ Organization

**Gurukul Campus** :- Y-12, Sector-V Salt Lake Electronics Complex, Kolkata- 700091, West Bengal Ph. (033) 2357 2969  
**Management House** :- D-1, Salt Lake Electronics Complex, Kolkata- 700091, West Bengal Ph. (033) 2357 8908  
**Ashram Building** :- GN-34/2, Salt Lake Electronics Complex, Kolkata- 700091, West Bengal Ph. (033) 2357 2059/2995  
**IEM New Town** :- University Area, Plot No. III-B/5, Main Arterial Road, New Town, Action Area – III, Kolkata - 700160

**FDP Title:****Intelligent Healthcare Technologies: Harnessing IoT, Cloud, and AI for Medical Innovation****Objective:**

This Faculty Development Program is premeditated to bridge the prevailing gap between medical provisions and technological innovations by fostering interdisciplinary collaboration among faculty members from healthcare, engineering, and interrelated fields. The program intends to provide participants with a holistic understanding of how modern technologies can be applied to advance smart, efficient, and patient-centric healthcare solutions. By integrating clinical needs with technical competences, the program will empower faculties to conduct research aligning with real-world healthcare challenges, thereby contributing to the progression of digital health and med-tech ecosystems in academia and industry. Furthermore, the program will feature expert sessions directly from real-life medical practitioners with immense expertise, hands-on workshops by eminent researchers, and case studies to enhance practical understanding. It boosts innovation, entrepreneurship, and translational research in the embryonic digital health landscape.

**Expected Outcome:**

The Faculty Development Program is projected to produce numerous impactful outcomes. Faculty participants will be enhanced with a deeper understanding of current challenges in the healthcare sector and how emerging technologies can be applied to mitigate those challenges while offering innovative solutions. The program will foster interdisciplinary collaboration between medical and engineering practitioners, enabling the co-creation of research projects and student initiatives that discourse real-world healthcare requisites. Participants will be well-equipped to mentor students in developing tech-driven healthcare applications and devices, inspiring innovation and problem-solving. The FDP will also ratify academic-industry linkages, facilitating translational research and entrepreneurial ventures in med-tech. Eventually, it will help in strengthening a knowledgeable academic community to integrate AI, IoT, and cloud technologies in healthcare, contributing to improved patient outcomes and healthcare delivery.

**FDP Thrust Area:** Health Care & Med-Tech

**FDP Title:** Intelligent Healthcare Technologies: Harnessing IoT, Cloud, and AI for Medical Innovation

**Start Date:** 27/01/2026

**End Date:** 31/01/2026

<b>Day 1</b>	<b>Day 2</b>	<b>Day 3</b>	<b>Day 4</b>	<b>Day 5</b>
Slot 1 (1.5 hr)  <b>Session 1</b> Dr. Shubhajit Roychowdhury, Professor Centre for Human Computer Interaction, IIT Mandi  <b>Topic:</b> Biomedical Embedded Systems and Non-invasive Diagnostics	Slot 3 (1.5 hr)  <b>Session 3</b> Dr Abhishek Bhoumik, General Surgeon, Ruby Hospital, Kolkata, India  <b>Topic:</b> Computer Assisted-Surgery and Surgical Robotics: The Evolutionary Med-Tech	Slot 5 (1.5 hr)  <b>Session 5</b> Dr. Prasanna Lenka, Director, CRC Guwahati, Govt of India  <b>Topic:</b> Gait Analysis through Data Mining	Slot 7 (1.5 hr)  <b>Session 7</b> Dr. Chitrangada Das Mukhopadhyay, Centre for Health care science and Technology IEST Shibpur, India  <b>Topic:</b> Molecular Docking for drug design and structure- based drug discovery	Slot 9 (1.5 hr)  <b>Session 9</b> Dr Matthew Chua, Deputy Director of the Digital Innovation Office, Ng Teng Fong Centre for Healthcare Innovation, Singapore  <b>Topic:</b> Biomedical Informatics
Slot 2 (1.5 hr)  <b>Session 2</b> Dr. Kuntal Dey Technology R&D Senior Principal, Accenture Technology Labs  <b>Topic:</b> AI Cloud Continuum	Slot 4 (1.5 hr)  <b>Session 4</b> Dr. Chui Chee Kong, Associate Professor, NUS Singapore  <b>Topic:</b> Robotics in Healthcare: The Era of Robots in MedTech	Slot 6 (1.5 hr)  <b>Session 6</b> Dr. Arkaprabha Sau Directorate General of Factory Advice Service and Labour Institute (DGFASLI), Ministry of Labour and Employment, Govt. of India  <b>Topic:</b> The Role of IoT in Smart Hospitals: Enhancing Efficiency and Patient Safety	Slot 8 (1.5 hr)  <b>Session 8</b> Dr. Subhrajyoti Banerjee, Research Scholar, Griffith University, Australia  <b>Topic:</b> Hands-on session on Molecular Docking	Slot 10 (1.5 hr)  <b>Session 10</b> Dr. Siddhartha Bhattacharyya, Professor, VSB Technical University, CZECH Republic  <b>Topic:</b> Multimedia Image Processing for Next-Gen Healthcare