

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): ...SEMINAR.....
2. Title of the proposed Programme:National Seminar for Defense Technologies.....
3. Target Group (Faculty, Teacher, Research Scholar, School/College/ University Student, Community): ...Focused group of University students who are willing to do research on defense related projects and wish to do career in Indian Defense.....
4. Duration (days): 2 days; Tentative Dates of the proposed Programme: 27-28 th March 2026..
5. Aims, Objectives and Details of the Programme (attach separate sheet, if necessary):

Aims of the Programme

The National Seminar on Defence Technologies aims to create a national academic platform to sensitise, orient, and prepare students and young researchers for meaningful engagement in defence-oriented research, innovation, and technology development, aligned with India's strategic and security needs.

The seminar seeks to bridge the gap between academic knowledge and defence-sector requirements by exposing students to emerging defence technologies, real-world problem statements, research methodologies, and career pathways in the Indian defence ecosystem, including DRDO, Armed Forces, Defence Public Sector Undertakings (DPSUs), private defence industries, and national research laboratories.

The programme also aims to cultivate a research mindset, ethical responsibility, and national service orientation among students who aspire to pursue long-term careers in Indian defence research, design, testing, and technology development, thereby contributing to the vision of Atmanirbhar Bharat and Viksit Bharat in the strategic domain.

Objectives of the Programme

The specific objectives of the National Seminar are as follows:

Academic and Research Orientation

- To introduce students and early-stage researchers to core and emerging defence technologies, including AI, cybersecurity, autonomous systems, sensors, communication systems, embedded electronics, materials, and defence software.
- To familiarise participants with defence research methodologies, system engineering approaches, testing and validation processes, and technology readiness levels (TRLs).

Career Awareness and Pathway Development

- To provide clear insights into career opportunities in Indian defence organisations, including DRDO laboratories, Armed Forces technical branches, DPSUs, defence start-ups, and strategic R&D institutions.
- To guide students on eligibility, selection processes, skill requirements, and long-term growth pathways in defence research and technology careers.

Student Engagement in Defence Research

- To motivate students to take up defence-related research projects, internships, dissertations, and doctoral work aligned with national defence priorities.
- To encourage interdisciplinary research participation from engineering, science, computing, electronics, materials, and management domains.

Academia-Defence-Industry Interface

- To strengthen collaboration between universities, defence organisations, and industry partners by fostering dialogue, idea exchange, and potential future MoUs.
- To expose students to real defence problem statements, enabling them to align academic projects with practical defence needs.

National Capacity Building

- To contribute to the development of a defence-ready talent pool by nurturing skilled human resources with strong technical competence, ethical awareness, and national commitment.
- To promote innovation-driven research that supports indigenous design, development, and manufacturing of defence technologies.

Details of the Programme

Total Number of participants: 300 (minimum)

Target Participants

The seminar is intended for:

- Undergraduate, postgraduate, and doctoral students interested in defence technologies
- Early-career researchers and faculty members
- Students aspiring for careers in Indian defence research, design, and technical services

Programme Structure

The National Seminar will be conducted over two days, comprising the following components:

a) Inaugural Session

- Address by academic and defence experts highlighting the importance of defence technology research and national self-reliance.
- Overview of India's defence technology ecosystem and future requirements.

b) Technical Sessions

Expert-led sessions covering topics such as:

- Artificial Intelligence and Machine Learning in Defence Applications
- Cybersecurity, Secure Communication, and Information Warfare
- Autonomous Systems, UAVs, and Robotics
- Sensors, Radar, and Signal Processing
- Embedded Systems and Defence Electronics
- Materials, Manufacturing, and Structural Technologies for Defence
- Software Engineering and Systems Integration in Defence Platforms

c) Research Methodology & Project Design Session

- How to formulate defence-oriented research problems
- Writing proposals for defence-funded projects
- Understanding testing, validation, and deployment constraints
- Ethics, security, and confidentiality in defence research

d) Career Guidance & Interaction Session

- Career opportunities in DRDO, Armed Forces (technical branches), DPSUs, and defence industries
- Internships, fellowships, and sponsored research opportunities
- Interaction with defence professionals and researchers

e) Student Presentation / Poster Session

- Presentation of student ideas, prototypes, or concept notes related to defence technologies
- Expert feedback to help students refine research direction

Expected Outcomes

- Enhanced awareness among students about defence research opportunities and career pathways
- Increased student participation in defence-related academic and research projects
- Identification of promising student researchers for future defence collaborations

Relevance to National Priorities

The programme is directly aligned with:

- Atmanirbhar Bharat mission in defence manufacturing and technology
- Viksit Bharat vision through strategic technology development
- National policies encouraging academia–industry–defence collaboration
- Capacity building of skilled manpower for India's defence and security sectors

6. Name, Designation, Postal Address, mobile no. and e-mail id of the (only one) Programme Co-ordinator (PC) (attach separate sheet, if necessary):

.....
Dr. Anirban Das, Department of CA, B5, action area III, Newtown, Kolkata 700160, WB, Mobile no: 9064698109 / 9474623504, Email: anirban.das@uem.edu.in
.....

7. Legal status of the Institute (School/College/ University/ Institute/ Polytechnic/ ITI/ Autonomous body/ registered NGO/ Trust etc.):University.....
8. Date wise detail Programme Schedule (attach separate sheet, if necessary):

DAY 1 – Friday, 27 March 2026

Theme: Defence Technologies – Vision, Research and National Priorities

09:00 – 10:00 hrs

Registration & Welcome Kit Distribution

10:00 – 10:45 hrs

Inaugural Session

- Invocation / Lighting of the Lamp
- Welcome Address – Organising Secretary, UEM Kolkata
- Address by Hon'ble Vice Chancellor, UEM Kolkata
- Inaugural Address by Chief Guest (Defence Expert / DRDO Scientist / Senior Armed Forces Officer)
- Release of Seminar Souvenir / Abstract Book

10:45 – 11:00 hrs

Tea Break

11:00 – 12:30 hrs

Plenary Session I: India's Defence Technology Ecosystem

Topics:

- Overview of Indian Defence R&D Ecosystem
- Role of Academia in Defence Innovation
- Opportunities for Students in Defence Research & Technology

Speaker: Senior DRDO Scientist / Defence Technologist

12:30 – 13:30 hrs

Lunch Break

13:30 – 15:00 hrs

Technical Session I: Emerging Defence Technologies

Topics:

- Artificial Intelligence & Machine Learning in Defence
- Cybersecurity and Secure Communication Systems
- Defence Software Engineering and Systems Integration

15:00 – 15:15 hrs

Tea Break

15:15 – 16:45 hrs

Technical Session II: Autonomous Systems & Defence Electronics

Topics:

- UAVs, Robotics and Autonomous Platforms
- Sensors, Embedded Systems and Signal Processing

16:45 – 17:30 hrs

Interactive Session I: Research Opportunities for Students

- Defence-oriented project formulation
- Internships, fellowships and sponsored research
- Q&A with experts

17:30 hrs

Day 1 Concludes

DAY 2 – Saturday, 28 March 2026

Theme: Student Engagement, Research Methodology and Career Pathways

09:30 – 10:30 hrs

Plenary Session II: Defence Research Methodology

Topics:

- Problem identification in defence research
- Technology Readiness Levels (TRLs), Ethics, confidentiality and security in defence R&D

Speaker: Senior Defence Researcher / Academic Expert

10:30 – 11:45 hrs

Technical Session III: Materials, Manufacturing & Structural Technologies

Topics:

- Advanced materials for defence applications
- Manufacturing technologies and quality assurance
- Testing, validation and certification in defence systems

11:45 – 12:00 hrs

Tea Break

12:00 – 13:30 hrs

Student Research & Poster Presentation Session

- Student presentations on defence-related ideas, projects and prototypes
- Poster evaluation by expert panel
- Feedback and mentoring for improvement

13:30 – 14:30 hrs

Lunch Break

14:30 – 15:45 hrs

Career Guidance Session: Careers in Indian Defence

Topics:

- Careers in DRDO, Armed Forces (Technical Branches), DPSUs
- Defence start-ups and private defence industries
- Skills, qualifications and selection processes

15:45 – 16:00 hrs

Tea Break

16:00 – 17:00 hrs

Panel Discussion: Preparing Students for Defence Research Careers

Panelists:

- Defence Scientists
- Armed Forces Technical Officers
- Industry Experts
- Senior Academicians

Topics:

- Academia–Defence collaboration
- Skill gaps and curriculum alignment
- Long-term career growth in defence technology

17:00 – 17:30 hrs

Valedictory Session

- Summary of seminar outcomes
- Certificate distribution
- Valedictory address
- Vote of Thanks

17:30 hrs

National Seminar Concludes

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9. Collaborating Institutions/ Organizations, if any, with their specific contribution:
DRDO for technical discussions and selected sessions.....

.....

10. Expected number of participants and list of Resource Persons/ Invited Speakers:
300 student participants, 30 faculty participants, 7 guest 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:.....
.UNIVERSITY OF ENGINEERING AND MANAGEMENT
KOLKATA.....

.....

13. Total Estimated Expenditure (A)/ Organisation's contribution (B)/ Contribution from any
other sources (C) / Grant expected from DSTBT(D):
D : ₹...180000..... = (A: ₹...200000..... – B: ₹...20000.....
– C: ₹.....)
(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.

Signature: *Anirban Das*

Date: 15.12.2025

Name of Programme Coordinator:

Anirban Das

Designation: *Professor*

Address: *B5, University area,
Newton, Action Area-III,
Kol-160*

(Office Seal)

Signature: *Rajanya*

Date: 15.12.25

Name of Head of the Institution:

RAJIV GARGU

Designation: *Senior Professor & Dean - Science*

Address: *B5, University Area, Newton
Action Area -III, Kol-160*

RECOMMENDATION
(only for registered NGO/ Trust)

Certified that the said Organisation is reputed in this field and I/ we recommend the said proposal for getting grant-in-aid from DSTBT, Govt of West Bengal for the benefit of the local College/ University Students/ Community etc.

Signature:

Date:

Name of Recommending Authority:

Designation:

Address:

(Office Seal)

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 [10 speakers × ₹4,500 per speaker]	45000
2.	Study materials, Consumables expenses (Abstract book, seminar kits, stationery, printing)	18000
3.	Hall rent, if any [University auditorium]	NA
4.	Publicity materials (Banners, flex, posters, certificates, invitations)	12000
5.	Travel expenses (Local transport for Kolkata-based speakers & logistics)	8000
6.	T.A. to the external Resource Persons/ Experts (3 speakers × ₹11,000 average towards inter-state travel)	33000
7	Accommodation for external Resource Persons (3 speakers × 2 nights × ₹3,000 per night – economical lodging)	18000
7.	Documentation expenses including audio-visual (Basic photography, soft documentation, minimal recording)	5000
8.	Catering: Lunch & High Tea (2 days) (Lunch @ ₹80 × 700 + High Tea @ ₹12 × 700)	64400
9.	Auditors' fee	5000
10.	Other expenses, if any (please specify)	6600
Grand Total Expenditure (₹):		200000

Please mention:

B. Institution/ Organization Contribution* in ₹ 20000

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

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


Signature of Authorised Personnel with seal
 Prof. (Dr.) Ranajit Ganguly
 Dean
 University of Engineering & Management
 University Area, Plot No.-III-B/5, Newtown
 Action Area-III, Kolkata-700160

If C= 0

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

Signature of Authorised Personnel with seal

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

Bank details of the Applicant Organisation

Name of the Organization	University of Engineering and Management, Kolkata
Bank Account number & name of the Account holder/ Organization	164201000001924 University of Engineering and Management, Kolkata
Type of Account (Savings or Current A/c)	Savings
Name of the Bank	Indian Overseas Bank
Name of the Branch with Branch address	Saltlake sector V branch, Kolkata 91
IFSC of the Branch	IOBA0001642
Mobile Number of the Programme Coordinator/ Head of the Organization	9064698109 / 9474623504
PAN / TAN of the Account holder/ Organization	AAATII143E



Signature of Authorised Personnel with seal
Prof. (Dr.) Rajiv Ganguly
Dean

University of Engineering & Management
University Area, Plot No.-III-B/5, Newtown
Action Area-III, Kolkata-700160

Annexure-II

Bankdetails of the Applicant Organisation

Name of the Organization	University of Engineering and Management, Kolkata
Bank Account number & name of the Account holder/Organization	164201000001924 University of Engineering and Management, Kolkata
Type of Account (Savings or Current A/c)	Savings
Name of the Bank	Indian Overseas Bank
Name of the Branch with Branch address	Saltlake sector V branch, Kolkata 91
IFSC of the Branch	IOBA0001642
Mobile Number of the Programme Coordinator/ Head of the Organization	9064698109 / 9474623504
PAN/TAN of the Account holder/Organization	AAATI1143E



Signature of Authorised Personnel with seal

Prof. (Dr.) Rajiv Ganguly
Dean

University of Engineering & Management
University Area, Plot No.-III-B/5, Newtown
Action Area-III, Kolkata-700160

Other Institutes of the Group

University of Engineering & Management (UEM) Jaipur – 6 Km, from Chomu on Sikar Road (NH-11), Jaipur-303807, Rajasthan Ph. 01423-516102
Institute of Engineering & Management (IEM) – Salt Lake Electronics Complex, Sector-V, Kolkata- 700091, West Bengal Ph. (033) 2357-2969
IEM Public School (Salt Lake & New Town) – GE, 4/A, Sector-III, Salt Lake, Kolkata – 700106 | DD-256, Action Area - I, New Town, Rajarhat, Kolkata - 700 156

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 [10 speakers × ₹4,500 per speaker]	45000
2.	Study materials, Consumable expenses (Abstract book, seminar kits, stationery, printing)	18000
3.	Hall rent, if any [University auditorium]	NA
4.	Publicity materials (Banners, flex, posters, certificates, invitations)	12000
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10.	Other expenses, if any (please specify)	6600
Grand Total Expenditure (₹):		200000

Please mention:

B. Institution/ Organization Contribution* in ₹ 20000
C. Contribution from any other sources (with name & Address) in ₹ 0

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



Prof. (Dr.) Rajiv Ganguly
Dean

Signature of Authorised Personnel with seal
University of Engineering & Management
University Area, Plot No. III-B/5, Newtown
Action Area-III, Kolkata-700160

If C= 0

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



Prof. (Dr.) Rajiv Ganguly
Dean

Signature of Authorised Personnel with seal
University of Engineering & Management
University Area, Plot No.-III-B/5, Newtown
Action Area-III, Kolkata-700160

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

Other Institutes of the Group

University of Engineering & Management (UEM) Jaipur – 6 Km, from Chomu on Sikar Road (NH-11), Jaipur-303807, Rajasthan Ph. 01423-516102
Institute of Engineering & Management (IEM) – Salt Lake Electronics Complex, Sector-V, Kolkata- 700091, West Bengal Ph. (033) 2357-2969
IEM Public School (Salt Lake & New Town) – GE, 4/A, Sector-III, Salt Lake, Kolkata – 700106 | DD-256, Action Area - I, New Town, Rajarhat, Kolkata - 700 156

Utilisation Certificate (UC) in respect of Grant-in-Aid

No.

Date:

1. Name of the Grantee Institute (s) :
[Attach separate list for more than one Grantee Institution]
2. Sanctioning Authority :
3. Sanction Order Number & Date :
4. Amount Sanctioned :
5. Drawing & Disbursing Officer :
6. Treasury/PAO :
[From where the bill was drawn]
7. Bill No. & Date :
8. T. V. No. & Date :
9. Amount Drawn :
10. Unspent Balance of Previous year, if any :
11. Amount Utilised :
12. Unspent Balance, if any, in Current year :
13. Purpose of Utilisation :

C E R T I F I C A T E

Certified that I have satisfied myself that the conditions on which the Grant-in-Aid was sanctioned have been duly fulfilled/are being fulfilled that I have exercised the following checks to see that the money was actually utilised for the purpose for which was sanctioned.

[Applicable in case of unspent balance] The unspent fund will be adjusted against the Grant-in-Aid to be sanctioned and paid in the Current Financial Year (applicable in case of recurring grant only).

Kinds of checks exercised

1. Cash Book
2. Ledger
3.
4.
5.

Date

Signature with Official Stamp

Audited Statement of Expenditure (Audited SoE)**Title of the Programme:****Duration:** **Venue:****Organized by:**

Receipts	Amount (₹)	Payments	Amount (₹)
Amount received from DSTBT		1.	
		2.	
Amount contributed from own Institution/ Organisation/ Participants etc.		3.	
		4.	
Amount received from other Institution/ Organisation/ other means etc.		5.	
		6.	
Total (₹):		Total (₹):	

Certified that we have exercised all kinds of checks to see that the grant has been utilized for the purpose for which it was sanctioned by DSTBT vide Government Order

No..... dated..... of ₹.....

**Name & Signature
of Programme
Coordinator**

Official Seal

**Name & Signature
of Head of the Institution**

Official Seal

**Name & Signature
of Chartered Accountant**

Official Seal

Feedback Form

[Rank based points from 1-5 (5 to be excellent) in Feedbacks from the participants]

Title of the Programme:.....

Name of the Programme Coordinator:.....

Name of the participant :

Address:.....

Age:.....; Occupation:.....

Mobile No.; E-mail id:.....

Educational Qualification:.....

SI No	Items	Rating: 1-5 (1=Poor, 2=Average, 3=Good, 4=Very Good, 5=Excellent)
1.	Did you find the Programme useful?	1---2---3---4---5
2.	Did it cover what you were expecting?	1---2---3---4---5
3.	How are the speakers on their delivery style?	1---2---3---4---5
4.	How relevant was the content to your expectation?	1---2---3---4---5
5.	Programme duration?	1---2---3---4---5
6.	How the topics of this Programme?	1---2---3---4---5
7.	How is the venue, in terms of location and comfort	1---2---3---4---5
8.	How the subject areas are useful to you?	1---2---3---4---5
9.	In terms of future Programme, are there any other related subject areas you would be interested in?	Write in one or two sentences

(Sponsored by: DSTBT, GoWB)

Signature of the Participant with date

Programme Completion Certificate

This to Certify that the Programme titled
sponsored by the Department of science & Technology and Biotechnology (DSTBT), Govt. of West Bengal was successfully organised by in
collaboration with (if any) during at (venue)
..... for the benefit of

The following components of the above mentioned Programme

1.

2.

3.

.

were found very beneficial and inspiring for the
who participated during the mentioned events.

Special achievements by conducting this programme are:(in few lines).....

.....
.....
.....
.....
.....
.....
.....
.....

The Still photographs and videos taken during each of the individual events are enclosed for reference.

**Name & Signature
of Programme
Coordinator**

Official Seal

**Name & Signature
of Head of the Institution**

Official Seal

**Name & Signature
of the person who has
recommended, if any**

Official Seal

Programme Completion Report

Science Popularization Programme

1. Programme Type :
2. Title of the Programme:
3. Name and address with pin code of the host Organization with Phone, Mobile No. Fax No., e-mail id etc.:.....
3. Name of the Programme Co-ordinator (PC) and Head of the host Organization with address, mobile no. and e-mail id:.....
4. Day Wise Activities with still pictures (attach separate sheet).....
5. Outcome of the program (attach separate sheet):.....
6. Feedback from participating schools:
7. List of participants including resource persons, invited speaker, dignitaries, experts:

**Name & Signature
of Programme
Coordinator**

**Name & Signature
of Head of the Institution**

**Name & Signature
of the person who has
recommended, if any**

Official Seal

Official Seal

Official Seal