

Date: 6-8-2021
Time: 10:30am–2:15pm

One Day Webinar on “Research projects, collaboration and funding Opportunities: A report

A one-day webinar on “Research projects, collaboration and funding opportunities was organized with the collaboration of IQAC, Gurukula Kangri (Deemed to be University, Haridwar. In present situation of COVID-19 pandemic it is very difficult to get funding from different agencies such as DBT, DST, CSIR, ICMR, UGC and other agencies who promotes research in Universities and colleges. It is very essential to thrive in University system in terms of promotion and academic elevation to have projects. Keeping in mind of these points, a one-day webinar was planned by Prof. R.C. Dubey, Director IQAC & Dear Research and discussed with our team consist of Dr. Hemvati Nandan and Dr. Harish Chandra. Thus the idea was implemented and a proposal has been put in front of Hon’ble Vice Chancellor sir who readily accepted the proposal and then the experts of different agencies such as DST, UCOST and Vigyan Prasar was approached for invited lecture on Funding, project writing and other technicalities associated with the project proposal. The scientist and other official contacted however accepted our invitation.

The four experts were ready for delivering the lecture on “Research projects, collaboration and funding opportunities”

1. Prof. Rajeev K. Mehajan (SERB, Scientist G) - Chief Guest/Speaker
2. Dr. Akhilesh Mishra , Scientist E , DST -- Speaker
3. Dr. D.P. Uniyal, Joint Director, UCOST, Dehradun
4. Dr. Arvind C. Ranade, Scientist F, Vigyan Prasar, New Delhi

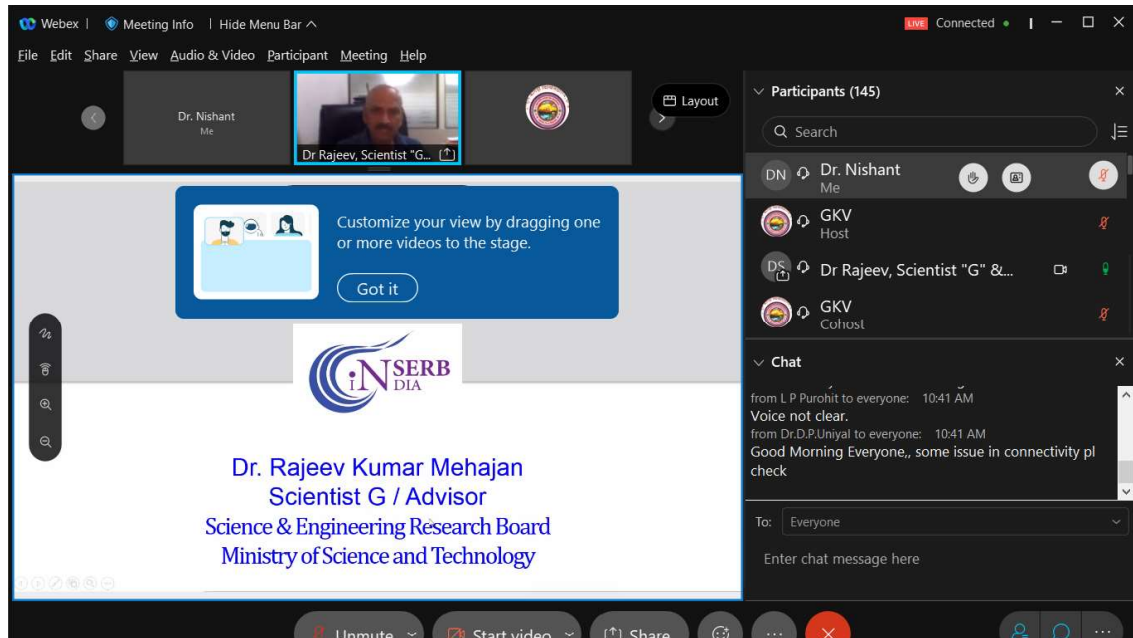
As per the custom of Gurukul Kangri (Deemed to be University) the webinar was started with Yagna followed by Prayer with the voice of Dr. Nidhi Handa. The introductory marks was given by Prof. R.C.Dubey, Director, IQAC & Dean Research in which he stated that the faculty who is newly appointed in university knowingly and unknowingly send their projects to different agencies without knowing the exact rationale. This webinar will be a great opportunity for those who wants to fetch project from the funding agencies particularly from DST and UCOST. Prof. Roop Kishor Shastri sir, Hon’ble Vice chancellor in his speech appreciated the effort made by the IQAC and Organising committee and requested the support extended towards deemed university like Gurukul Kangri. He also informed the experts that our faculty continuously applied for different grants in their agencies but in some stages could not make it to impress experts and rejected. The immense knowledge and expertise of resource person may enlighten the path and added some expertise to fetch project from these agencies.

After the word of wisdom from Hon’ble Vice Chancellor, Prof. S.K. Rajput, Head, Department of Pharmaceutical welcome the distinguished Resource person, guests and participant from other places.

The webinar begin with the Lecture of our Chief Guest Prof. Rajeev K. Mehajan (SERB, Scientist G) on Funding opportunities in R&D (Journey towards excellence) in his presentation

he told that DST have different programmes such as nPDF, Core grant Research, TARE, SUPRA, Early Career Research Awards, VAJRA etc. He also told the project will be sanctioned to those proposal which have a quality and have applied field. The SERB does not discriminate the nature of institution whether big or small. After Prof. Mehajan lecture, Dr. D.P. Uniyal, Joint Director, UCOST told in his lecture on Project/Dissertation/Thesis/Paper Writing Skills, Funding mechanism (Agencies) & Intellectual Property Right (IPR) issue and Management” that while writing the project the applicant should consider the following point such as topic should be clear and reflects the novelty, selection of right kind of research problem, objective should be 3-4 which can be fulfill within the stipulated time. Next speaker dr. Akhilesh Mishra informed that out of 1000 project proposal only 10% project was sanctioned due to lack of quality and novelty. He also told that about 25000 PhD was awarded per year in India and we are at 3rd position in Publication and nanosciences. The last speaker Dr. Arvind C. Ranade from Vigyan Prasar, New Delhi told the vision and functioning of Vigyan Prasar. He told that the Vigyan prasar is not a funding agencies but it can work with you in collaboration.

In this webinar, there was more that 155 participants who was benefited with the lecture. The events was coordinated by Dr. Hemvati Nandan, the moderator of webinar was Prof. Satyendra Rajput, Organising Secretary of this webinar was Dr. Harish Chandra, The moderator of expert lecture were Dr. Lokesh Kumar Joshi, Dr. Nitin Bhardwaj, Dr. Vipin Sharma. Dr. Ravinder Kumar. The prayer and Shanthi Paath was coordinated by Dr. Nidhi Handa. The webinar was concluded with Shanthi Paath.



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Dr. Nishant Me

Dr Rajeev, Scientist "G..."

Layout

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Dr Rajeev, Scientist "G" &...

GKV Cohost

Chat

from Dr.D.P.Uniyal to everyone: 10:41 AM
Good Morning Everyone,, some issue in connectivity pl check

from Mayank Pokhriyal to everyone: 11:01 AM
yessir

To: Everyone

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Viewing Dr Rajeev, Scientist "...

transformative and disruptive research concepts based on innovative and unproven hypotheses, possessing a high degree of uncertainty, yet having conviction to produce a lasting impact across discipline boundaries"

- Augment India's dominant global presence in niche research areas and catapult to a group of nations with select capabilities and competitive advantage

ISERB
DETA

Ministry of Science & Technology

SERB
SUPRA
AN INITIATIVE OF SERB - DST
GOVERNMENT OF INDIA

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Dr Rajeev, Scientist "G..."

SERB STAR
Science & Technology Award for Research
Brochure under revision

Selecting Excellent Performers
Very Good
Good
Satisfactory
Not satisfactory

Eligibility Criteria
40-50 years
No Other Fellowship / Honorarium

Selection Process
Project Performance
Other Research work

SERB STAR Awardee Selected

SERB-STAR award for high calibre scientists who have received excellent ranking in one of their SERB project.

Fellowship of Rs. 15,000/- p.m. and a research grant of Rs.10 lakh per annum for three years.

Maximum of 30 awards in all disciplines

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Hemwati Nandan

- Individual-centric competitive mode of research funding in frontier areas of science and engineering
- Academic institutions, research laboratories and other R&D organizations
- Support >1100 Crores
- Papers, conference proceedings, and **patents**
- Need to create a platform for incentivizing translation from outcomes of these projects

SERB-TETRA

- SERB projects, in last three-year cycle, with a patent or design registration
- Identified an industry partner and an incubator for tech translation
- Unstructured support (up to 15 lakhs per year) to develop a prototype or product
- 10 awards in the first year

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Dr. Nishant Me Hemwati Nandan

SERB – POWER FELLOWSHIP

Fellowship
Rs. 15,000/- per month in addition to regular income

Research grant
Rs. 10 lakh per annum

Duration
Fixed for three years

Overheads
As per SERB norms

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Dr. Nishant Me Hemwati Nandan Dr Rajeev, Scientist "G"...

SERB – POWER RESEARCH GRANTS

Eligible
Applicants from IITs, IISERs, IISc, NITs, Central Universities, and National Labs of Central Government Institutions

Level I
The scale of funding up to 60 lakhs for three years.

Level II
The scale of funding up to 30 lakhs for three years.

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Dr. Nishant Me Hemwati Nandan Dr Rajeev, Scientist "G..."

Layout

Viewing Dr Rajeev, Scientist "...

IMMEDIATE

Aggregation of Workshops / Trainings funded across all Central funding agencies

1

High end Workshops

2

Research Internships

3

Opportunities for underprivileged

1

Opportunities for Women Scholars

2

Career Support, If Possible

3

FUTURE

scoleripia

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Viewing Dr Rajeev, Scientist "...

Teachers Association for Research Excellence (TARE) Mobility Scheme

Mobility of faculty members working in State Universities / Colleges / Private Academic Institutions to central institutions / Universities

Research grant - Rs. 5 L / year
Research fellowship Rs. 60,000/ year (90 days' attendance)

- Should hold a Ph.D. in Science or PG in Tech
- Must hold a regular academic/research position
- Should not hold any ongoing research projects
- Upper age limit - 45 years (relaxation as per Gol)
- Mentor should be at least at the level of Associate Professor / Scientist E

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Visiting Advanced Joint Research Faculty Scheme (VAJRA)

Adjunct / visiting faculty positions to overseas scientists, faculty members and R&D professionals including NRI & OCI to undertake high quality collaborative research in Public funded academic and research Institutions in India.

Minimum of 1 month and a maximum of 3 months of residency period every year	Collaborative research with Indian faculty in cutting edge areas of S&T
A lump-sum amount of US\$ 15000 in the first month of engagement in a year and US\$ 10000 p.m. next two months	Host Institution may provide additional support (accommodation, medical / personal insurance etc)

For more info- <https://serbonline.in/SERB/vajra>

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National Science Chair (NSC)

The National Science Chair aims to recognise active eminent resident Indian superannuated scientists for their outstanding contributions both nationally and internationally, in the area of Science, Technology, Engineering, Mathematics (STEM) and Medicine, to promote excellence and growth in R&D

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Processes Expectations and Challenges

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PROJECT DECISION PATH

<https://www.serbonline.in/SERBI/HomePage>

```

graph TD
    A[Research calls] --> B[Advisory Committees]
    B --> C[Transparency]
  
```

Research calls

- Annual calls: CRG, SRG, EMEQ, SUPRA, STAR, IRHPA
- Top-down calls; Competence development in niche areas

Advisory Committees

- Discipline experts; Invitation to early career reviewers
- 15 PACs; Special committees for SUPRA, VAJRA, IMPRINT

Transparency

- Online workflow of projects and financials; swift actions
- Conflict of interest; Ethical committee; Oversight

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EVALUATION PROCESS

- Phase I** initial screening
- Phase II** screening of extended synopsis and track record. Weak output for last five years could be a basis of non acceptance.
- Phase III** consist of external reviews (possibly foreign reviews)
- Phase IV** project presentations by PI and co-PI shortlisted on the basis of review comments
- Phase V** preparation of score-charts, consolidation and award

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Hemwati Nandan

Dr Rajeev, Scientist "G..."

EXPECTATIONS

- R&D to be socially relevant
- Move from discipline-based to theme-based
- Link to National Missions & SDGs
- Popularise the outcome/achievements
- Adapt to the dynamic research environment

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CHALLENGES

- 1 Timely decision and disbursement of funds
- 2 Increasing number of proposals
- 3 Limited reviewers
- 4 Adopting "Conflict of Interest" policy
- 5 Expanding research base

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EXTRAMURAL PROJECTS



Investigator

PI needs to present a compelling argument based on:


- prior training
- independent investigator
- originality



Competence

Projects to be supported by:

- core competence
- outstanding research problems



Research focus

Contemporary problems:

- fundamental
- blue-sky profound
- cutting edge disruptive
- exponential and translational

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SEARCHING FOR A RESEARCH PROBLEM

- 1 Hypothesis-oriented**
 - * Should relate to significant, unresolved problems
 - * Focused, directional efforts with strong deductive reasoning
- 2 Innovative ideas**
 - * Ideas should reflect a forward movement in the field
 - * Address knowledge gaps with innovation
- 3 Non-incremental, risky**
 - * Creativity as a key component of advanced research
 - * Problem lasting for a couple of funding cycles (6-7 years)
- 4 Creating a signature**
 - * Better to avoid routine, predictable proposals
 - * Sufficiently difficult and challenging for execution

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SOURCES OF IDEAS

- Research papers, literature, outstanding questions of high value
- Lectures by experts (even in areas not from your interest), conferences
- Relevance Contemporary**
- Blue sky, long-standing hypotheses, theoretical propositions
- Special top-down research calls to strengthen new and emerging areas
- National missions, developing global research synergies (FAIR, LIGO, LHC, TMT)

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PROJECT WRITING: CONCEPTUALIZATION

1 INITIATION	2 OVERVIEW	3 IDEATION	4 ARTICULATION	5 ELABORATION
<ul style="list-style-type: none"> Choice of research problem 	<ul style="list-style-type: none"> Scope of work Knowledge gap areas 	<ul style="list-style-type: none"> Problem statement Short- and long term objectives 	<ul style="list-style-type: none"> Intertwining of objectives Connection to gap areas 	<ul style="list-style-type: none"> Leads to develop experimental plan Methodology, supporting studies

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REVIEWER IS YOUR AUDIENCE

WHY	OBJECTIVES	BIG PICTURE	WHAT'S KNOWN	ORIGINALITY
Clear articulation of the project	<ul style="list-style-type: none"> * Simple and non-jargon * Keep project duration in mind 	Where are the efforts and outcomes headed	Overview of idea and its current status	Desirable to present novelty in the proposed problem

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WRITING PROPOSAL

- Convey clearly what the investigator wants to achieve (objectives), how (methodology), and novelty (National/International status)
- Focused Objectives (maximum 4-5 points)
- Literature update is most important
- Detailed methodology with structure, equation, schemes, diagrams etc.
- Care to be taken to avoid spelling and grammatical error, follow uniform reference pattern, list out all the authors in the list of publications
- Budget (realistic): Manpower, Equipment, Consumables, Travel and Contingency are provided. Institution will get Overheads AND.....
- Follow the Principles of Research Integrity

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SCIENTIFIC ETHICS AND PLAGIARISM

We adopt UGC's "Promotion of Academic integrity and prevention of plagiarism in higher educational institution"

We reserve right to withdraw the financial support any time if such charges are confirmed against the applicants / Principal Investigators

We may also debar the defaulters for minimum period five years to apply for further funding

Proposals submitted to us need to be original and plagiarism in any form will not be acceptable

Five years of Scientific Ethics and Plagiarism charges of the all the applicants / Principal Investigator of the projects funded by the SERB will be taken into consideration for funding

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RESEARCH: CONCEPTUALIZATION AND IMPLEMENTATION

The diagram illustrates the Project Lifecycle. It starts with **PRE-PROJECT IDEATION** (lightbulb icon) leading to **IGNITION STAGE** (computer monitor icon). The main **Project Lifecycle** is divided into three stages:

- Stage 1:** Includes 'Finalized Research Plan' and 'Methods Iteration'.
- Stage 2:** Includes 'Planning' and 'Objectives Resources'.
- Stage 3:** Includes 'Execution' and 'Deliverables Recalibration'.

Vertical labels on the right indicate phases: **PROJECT COMPLETION**, **WORK PLAN**, and **PLAN AND TEAM**.

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MANAGING A FUNDED PROJECT

The diagram shows the process of managing a funded project through five stages:

- INITIATION:** Define project goals and discussions with coworkers; Creation of project protocols, briefs and reports.
- PLANNING:** Team roles and phased execution; Timelines to ensure that studies stay on track.
- EXECUTION:** Experimental design, resource planning and management; Status reports, forward movement; **Mentorship**.
- MONITORING:** Close watch on project goals, results and deliverables; Team performance, recalibration, and iterative execution.
- CLOSURE:** Data consolidation, paper writing, reconcile budget; Project closure reports (FTR); Debrief new project.

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Emphasis points

- Strategic research areas**
 - ~ Global presence (STEM)
 - ~ Transformative research
- Science leadership**
 - ~ Leverage Indian strengths
 - ~ Communication with stakeholders
- Research funding**
 - ~ Multiple programs
 - ~ Future-ready themes
- Infrastructure**
 - ~ Cutting-edge
 - ~ Removing obsolescence
- Collaborative centers**
 - ~ Specialized clusters
 - ~ Emerging research areas

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Dr Rajeev, Scientist "G..."

Thank You
I am within your reach
01140000341/9582000940
Mehajan.rk@nic.in
rmehajan@gmail.com

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Participants (145)

Search

- Dr. Nishant Me
- GKV Host
- Dr Rajeev, Scientist "G" &...
- GKV Cohost

Chat

barely audible now... please intimate the speaker..
from Dr. Santosh Upadhyay to everyone: 11:34 AM
organizers please check
from Chandra Prakash to everyone: 11:43 AM
not audible now

To: Everyone

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Dr. Nishant Me Dr.D.P.Uniyal Hemwati Nandan Cohost

Layout

Viewing Dr.D.P.Uniyal's applic...

Project /Dissertation /Thesis/Paper Writing Skills, Funding Mechanism (Agencies) & Intellectual Property Right (IPR) Issues and Management

Dr. D. P. Uniyal
 Joint Director, *M.N.A.Sc*
 Coordinator , **NASI, UK Chapter**
 Uttarakhand State Council For Science & Technology
 Vigyan Dham, Jhajra, Dehradun
 Email: dpuniyal.ucost@gmail.com

Participants (141)

Search

DN Dr. Nishant Me
 GKV Host
 Dr.D.P.Uniyal
 GM gitanjali mishra

Chat

Thank you very much to our mother instituon for arranging this highly informative session and i am also heartily thankful to Dr. Rajeev sir this nice information. from handa to everyone: 12:15 PM voice problem

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Dr. Nishant Me Dr.D.P.Uniyal Hemwati Nandan Cohost

Layout

Project /Dissertation /Thesis/Paper writing need good Subject knowledge and Skill

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Participants (140)

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DN Dr. Nishant Me
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 Dr.D.P.Uniyal
 GM gitanjali mishra

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Dr. Nishant Me


Hemwati Nandan Cohost

Dr.D.P.Uniyal (*)

(A). Title/topic should be clear and reflect the novelty

“Fish Diversity of Doon Valley, Uttarakhand, India”

“Diversity, Species Composition, Status and Conservation of Fishes of Doon Valley ”



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GKV Host

Dr.D.P.Uniyal

GM gitanjali mishra

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Dr. Nishant Me

Hemwati Nandan Cohost

Dr.D.P.Uniyal (*)

(D).Should know about the experts working on concern filed and try to build up communication and pay due attention to references (International & National level)

- 1. Printed Book**
Crosley, L.M. (1988). *The architects' guide to computer-aided-design*. Toronto: John Wiley & Sons.
- 2. Magazine Article**
Essinger, J. (1991, May 28). Just another tool of your trade. *Accountancy* 108, pp. 91-125.
- 3. Journal Article**
Armstrong, P and Keevil, S. (1991). Magnetic resonance imaging-2: Clinical uses. *British Medical Journal* 303(2), 105-109.
- 4. Interview**
Computer. Christopher C. (1996, January 10) Professor, Computer Science Department, University of California - Davis, 3 00 pm, Davis, California.
- 5. World Wide Web Address**
Austin, A. (1996) Annotated List of World Wide Web Technical Writing and Computer-Aided Composition Resources [Online]. Available: <http://www.wesl.cs.ucdavis.edu/~austina/cai.html>.
- Burke, J. (1992, January/February). Children's research and methods: What media researchers are doing. *Journal of Advertising Research*, 32, RC2-RC3. [CDROM]. Available: UMI File: Business Periodicals Ondisk Item: 92-11591.
- 6. FTP**
Blood, T. (1995, November 30). Re: Brain implants: the Chinese made it! [Online] In Newsgroup: biomc@indiana.edu, Directory: /usenet/biomc/ neuroscience, File: 9512aevsm. Date: Thu, 30 Nov 1995 20:39:35.
- Watson, L, and Dalwitz, M.J. (1990, December). Grass genera of the world-interactive identification and information retrieval. Flora Online: An Electronic Publication of TAXACOM (22). [Online]. Available FTP: [buh.harvard.edu](ftp://buh.harvard.edu), Directory: [pub/newsletters/flora.online/issue22](ftp://pub/newsletters/flora.online/issue22), File: 022gra11.txt.

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- 3. Journal Article**
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Computer. Christopher C. (1996, January 10) Professor, Computer Science Department, University of California - Davis, 3:00 pm, Davis, California.
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- Burke, J. (1992, January/February). Children's research and methods: What media researchers are doing. *Journal of Advertising Research*, 32, RC2-RC3. [CDROM]. Available: UMI File: Business Periodicals Ondisk Item: 92-11501.
- 6. FTP**
Blood, T. (1995, November 30). Re: Brain implants: the Chinese made it! [Online] In Newsgroup: biotech.acuroscience, Available FTP: <ftp://ftp.bio.indiana.edu>, Directory: /usenet/biotech/acuroscience, File: 9512.novem, Date: Thu, 30 Nov 1995 20:39:35.
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Dr. Nishant Me Hemwati Nandan Cohost

Dr.D.P.Uniyal (*)

(E). How the proposed project will benefit the country/state/Society (Applied Applications)

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Dr. Nishant Me

Dr.D.P.Uniyal

Hemwati Nandan Co-host

(F). Budget with due Justification (Recurring & Non-Recurring)

(Fellowships , Equipments, Contingency, Travel , Consumable, Over head : Read the Performa and rules & regulation of funding agency carefully and fill accordingly)

- **Non-Recurring** (e.g. equipments, accessories, etc.)
- **Recurring**
 1. Manpower
 2. Consumables
 - 3 .Travel
 - 4 .Contingency
 5. Overhead Charges (if applicable)

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DN Dr. Nishant Me

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Dr.D.P.Uniyal

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Dr. Nishant Me

Dr.D.P.Uniyal

Hemwati Nandan Co-host

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(Fellowships , Equipments, Contingency, Travel , Consumable, Over head : Read the Performa and rules & regulation of funding agency carefully and fill accordingly)

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 - 4 .Contingency
 5. Overhead Charges (if applicable)

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Dr. Nishant
Me



Dr.D.P.Uniyal


Hemwati Nandan
Cohost

Layout

(I). Budget Viewing Dr.D.P.Uniyal's applic... **arate Account**

(Interest Earned to be deposited in Bharat Kosh)

In between the project, if you wish to utilize the sanction amount from one head to another then you need to take permission from funding agency for Re-appropriation of the funds.



Intel For Science &

Participants (140)

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- DN Dr. Nishant Me
- GKV Host
- Dr.D.P.Uniyal
- GM gitanjali mishra

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Dr. Nishant Me Dr.D.P.Uniyal Hemwati Nandan Cohost

Viewing Dr.D.P.Uniyal's applic...

Project Completion

- Submission of :
- Utilization Certificate (UC),
- Statement of Expenditure (SOE) ,
(Duly signed by account session , competent authority and Charter accountant)
- Final Technical Report (FTR)

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Windows taskbar: File Explorer, Chrome, Edge, Word, 30°C Partly sunny, 12:44 PM 8/6/2021

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Dr. Nishant Me Dr.D.P.Uniyal Hemwati Nandan Cohost

Research Paper Writing

- Selection of Right kind of Journal (RS & GIS, Biodiversity, Water Quality, Science Communication/Science Popularization etc.)
- Follow the Instruction Carefully
- Carefully mention the Names of Reviewers
- Before finalizing the paper, Review or show to some Experts
- **Piracy check with the help of Software (Project/Dissertation /Thesis/Paper)**
- Revert back the Project/Paper after incorporating comments with in time limit

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Dr. Nishant Me

Hemwati Nandan Cohost

Dr.D.P.Uniyal

National level:

- **MoEF : (Ministry of Environment & Forest)**
CPCB; G.B.Pant , Almorha, ICFRE
- **MoES : (Ministry of Earth Sciences)**
- **MnRE : (Ministry of New and renewable energy)**
- **MHRD : (Ministry of Human Resource Development)**
- **MoWR : (Ministry of Water Resources)**
- **MSME : (Ministry of Micro Small and Medium Enterprise)**

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GKV Host

Dr.D.P.Uniyal

GM gitanjali mishra

Chat

voice problem
from Hemwati Nandan to Chat :49 PM
Kindly Unmute Dr Ravinder

To: Everyone

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Dr. Nishant Me

Hemwati Nandan Cohost

Dr.D.P.Uniyal

Message to Those Aiming to Become Good Researcher

- (1) **Live positive**
→ Creativity
- (2) **Discover your value**
→ Originality
- (3) **Envision a dream**
→ Vision

Participants (136)

Search

DN Dr. Nishant Me

GKV Host

Dr.D.P.Uniyal

GM gitanjali mishra

Chat

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from Hemwati Nandan to Chat :49 PM
Kindly Unmute Dr Ravinder

To: Everyone

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Dr. Nishant
Me

Dr. Harish Chandra



Dr. Akhilesh Mishra, D...



Indian R&D Ecosystem and Opportunities for young Researchers

Dr. Akhilesh Mishra

Scientist E, Tech Dev Programme

Department of Science and Technology, GoI

Email: akhilesh.mishra@nic.in

<http://www.dst.gov.in/>

Science Technology & Innovation in India's Transformation

Participants (135)

Search

- DN Dr. Nishant Me
- GKV Host
- DR Dr. Akhilesh Mishra, D...
- GM gitanjali mishra

Chat

from Hemwati Nandan to everyone: 12:49 PM
Kindly Unmute Dr Ravinder

from Dr Sandeep Kumar to everyone: 12:58 PM
very good and informative lecture

To: Everyone

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Dr. Nishant
Me

Hemwati Nandan
Co-host

Dr. Akhilesh Mishra, D...
(↑)

Layout

Science and Technology in India

- ❑ Integral part of Indian culture.
- ❑ CSIR was formed in 1942, to establish national laboratories aimed at converting research discoveries into industrial applications.
- ❑ After 1947, the Gol has spared much effort to establish a modern S&T infrastructure (*IITs, National laboratories, etc*)
- ❑ Since Independence, India has endeavored to bring economic and social change through S&T.
- ❑ Policy Support. (*SPR-1958, TPS-1983, STP-2003, STIP-2013*)
- ❑ Strengthening Human & Institutional Capacity Building.
- ❑ The Gol has provided all the needed financial support to the Indian scientists to continue their research works.

Participants (131)

Search

- DN Dr. Nishant Me
- Dr. Akhilesh Mishra, DST
- DR Dr. Akhilesh Mishra, ...
- GM gitanjali mishra

Chat

from Hemwati Nandan to everyone: 12:49 PM
Kindly Unmute Dr Ravinder

from Dr Sandeep Kumar to everyone: 12:58 PM
very good and informative lecture

To: Everyone

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Dr. Nishant
Me

Hemwati Nandan
Co-host

Dr. Akhilesh Mishra, D...
(↑)

Layout

Some Recent Successes and Status

- ❖ CSIR ranked 9th public research institution of the world. (Scimago)
- ❖ India is among the top 12 biotech destinations in the world.
- ❖ 3rd in the Asia-Pacific region and currently holding 2% share of the global Biotech industry.
- ❖ Vaccine Programme for COVID-19 (Serum Institute & Bharat Biotech)
- ❖ Technological self-reliance
- ❖ Startups & Unicorns.. (With 16 start-ups gaining unicorn status in 2021)
- ❖ Global Innovation Index

Participants (129)

Search

- DN Dr. Nishant Me
- Dr. Akhilesh Mishra, DST
- DR Dr. Akhilesh Mishra, ...
- GM gitanjali mishra

Chat

from Hemwati Nandan to everyone: 12:49 PM
Kindly Unmute Dr Ravinder

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very good and informative lecture

To: Everyone

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Dr. Nishant Me Hemwati Nandan Cohost Dr. Akhilesh Mishra, D...

INDIAN S&T

- ✓ VAST, DIVERSIFIED, CONTEMPORARY
- ✓ EXCELLENCE IN SELECT AREAS
- ✓ VIABLE S&T COMMUNITIES
- ✓ COST-EFFECTIVE
- ✓ One of the world's largest young researchers (less than 45 years) = 1 L
- ✓ India today more than 300 institutions belonging to S&T M/D.

Overall Vision
Strengthening National Capacity, Capability in S&T

Participants (129)

Search

DN Dr. Nishant Me

Dr. Akhilesh Mishra, DST

Dr. Akhilesh Mishra, ...

GM gitanjali mishra

Chat

very good and informative lecture from Narendera Singh to everyone: 1:11 PM

Very informative and knowledge imparting session.

To: Everyone

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Dr. Nishant Me Hemwati Nandan Cohost Dr. Akhilesh Mishra, D...

Contextual Referencing of STI policy of India

Science, Research and Innovation System for High Technology-led for path for India

Aspiration for Nation STIP 2013

Ambition for science STP 2003

Increasing Gross Expenditure on R&D for increasing outputs

Attaining goals TPS 1983

Articulation of principle SPR 1958

Focus on technological self reliance

Laying a Foundation for science and Scientific temper

Participants (126)

Search

DN Dr. Nishant Me

Dr. Akhilesh Mishra, DST

Dr. Akhilesh Mishra, ...

GKV Cohost

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Dr. Nishant Me Hemwati Nandan Cohost Dr. Akhilesh Mishra, D...

Policy & Processes

- ◆ **Technology Vision 2035 (TIFAC);**
+ Technological landscape for India
- ◆ **New Draft 5th STI Policy (2021)**
An STI Policy incorporating technology development, innovation, start-ups and connecting academic and R&D institutions with industry, MSMEs, etc.
<https://dst.gov.in/draft-5th-national-science-technology-and-innovation-policy-public-consultation>
- ◆ **Scientific Social Responsibility Policy**
+ Connecting Science to Society
- ◆ **National Research Foundation ?**



Participants (126)

Search

Dr. Nishant Me

Dr. Akhilesh Mishra, DST

Dr. Akhilesh Mishra, ...

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Dr. Nishant Me Hemwati Nandan Cohost Dr. Akhilesh Mishra, D...

Some Other Key Features of India's R&D

- ◆ **GERD increased by more than 3 times during last 10 years**
- ◆ **India's per capita R&D expenditure (at PPP) doubled in last 10y**
- ◆ **3rd Position in Publications in SCI journals (5th in 2014)**
- ◆ **3rd Position in publication in Nanoscience**
- ◆ **9th Position in terms of Quality (13th in 2014)**
- ◆ **3rd largest in terms of No of Ph.D. in STEM ~ 25000/year**
- ◆ **3rd largest Higher Education System of the world**
- ◆ **3rd position in terms of no of UNICORNs (startups valuation >\$1 bn)**
- ◆ **9th in terms of Resident Patent filing**
- ◆ **48th rank in Global Innovation Index (81st in 2015)**
- ◆ **Women participation in extramural R&D got doubled in last 6 years**
- ◆ **3.42 lakh R&D personnel – got doubled in last 8-10 years**
- ◆ **More than 6000 R&D institutions- 58% in private sector.**
- ◆ **Number of Full Time Equivalent (FTE) researchers per million population in India has increased to 255. But this number is one of the lowest in the world.**

Participants (127)

Search

Dr. Nishant Me

Dr. Akhilesh Mishra, DST

Dr. Akhilesh Mishra, ...

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Dr. Nishant
Me

Hemwati Nandan
Cohost



Dr. Akhilesh Mishra, D... (↑)

R&D in India

Strengths and Weaknesses

- ◆ Low FTE (<300 per million) but large volume of researchers (>3 lakh)
- ◆ One of the world's largest young researchers (less than 45 years) = 1L
- ◆ One of the largest pool of experts of international repute but nearly 1.5 times of the expertise reside outside India
- ◆ Low citation and less number of publications in high impact factor journals (but over 1.3 lakh publications per annum in SCI journals)
- ◆ **Poor Inter-institutional collaboration**
- ◆ Absence of collaboration between Line ministries and S&T ministries
- ◆ Disconnect between Education & Research and Research & Innovation
- ◆ Inadequate linkages between Science & Policy and Science & Society
- ◆ **Weak partnership between Public and Private**
- ◆ **R&D output Quality Concerns**
- ◆ **TRL ?????**

Participants (126)

Search

- DN Dr. Nishant Me
- GKV Host
- DR Dr. Akhilesh Mishra, D...
- GKV Cohost

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very good and informative lecture
from Narendra Singh to everyone: 1:11 PM
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Dr. Nishant Me Hemwati Nandan Cohost Dr. Akhilesh Mishra, D...

R&D ecosystem

STI Resources, Strategies and Priorities

"Hon'ble PM gave a clarion call for achieving a **"Atmanirbhar Bharat"** that might need greater focus on development of indigenous technologies and encouragement to grass-root level innovation"

Participants (125)

Search

Dr. Nishant Me

GKV Host

Dr. Akhilesh Mishra, D...

GKV Cohost

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Dr. Nishant Me Mukesh Dr. Akhilesh Mishra, D...

Indian applicant Patents Filed in India in 2018-19

Applicant	Patents Filed
ITIS (combined)	557
Chandigarh University	336
TCS	239
Council of Scientific and Industrial Research (CSIR)	202
Bharat Heavy Electricals (BHEL)	173

Source: Office of the Controller General of Patents, Designs & Trade Marks

CSIR is the Top Indian Patent Grantee

Grantee	Patents Granted
CSIR	166
DRIL	102
Tata Motors	87
DRD (combined)	81
Defense Research and Development Organisation	72

Patent filings and grants in India are dominated by foreign applicants: they filed two-thirds of patent applications in 2018-19, and got four-fifths of grants, according to the Office of Controller General of Patents, Designs and Trade Marks.

Participants (127)

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Dr. Nishant Me

GKV Host

Dr. Akhilesh Mishra, D...

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Dr. Nishant Me Mukesh Dr. Akhilesh Mishra, D...

Major S&T Departments/Agencies

- ICMR (1911)
- ICAR (1929)
- CSIR (1942)
- Department of Atomic Energy (1954)
- Defense Research & Development Organization (DRDO) (1958)
- Department of Science and Technology (1971)
- Department of Space (1972)
- Department of Environment (1980)
- Department of Ocean Development (1981)- MoES (2006)
- Department of Non-conventional Energy Sources (1982)- MNRE
- Department of Scientific & Industrial Research (1985)
- Department of Biotechnology (1986)
- Department of Electronics & Information Technology (2012) /MeitY) 2016

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Dr. Nishant Me

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Dr. Akhilesh Mishra, D...

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Dr. Nishant Me Mukesh Dr. Akhilesh Mishra, D...

Organizational Structure of Ministry of Science & Technology

Ministry of Science & Technology (MoST)

- Department of Biotechnology (DBT)
 - 16 Autonomous Institutions
- Department of Scientific and Industrial Research (DSIR)
 - 38 CSIR laboratories: NRDC, CDC and CEL, APCTT
- Department of Science and Technology (DST)
 - 20 AI, 5 prof. bodies, SERB, TDB, SCTIMST & two Subordinate Depts (Sol, NATMO)

(~ 80 institutions/organizations/professional bodies) (Budget: - Rs14000 Cr)

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DST Core Mandates

- Founded on 3rd May, 1971 – 2021 Golden Jubilee
- Mother department - six other Science Departments have emerged - DBT, MoES, DSIR, MoEF, MNRE and DoE.
- Policy body - Policies relating to Science & Technology
 - ◆ R&D: Human, Infrastructural and Institutional Capacity Building (Extramural R&D funding) (with ~ 50% national share of EMR funding) - SERB
 - ◆ Tech. Development, Innovation, Startups...
- Supports some high end R&D institutions established by eminent scientists like CV Raman, JC Bose, Agarkar, Wadia and IACS. These institutions are knowledge hotspots.
- Designated body for signing international S&T cooperation and promotion of Science and Technology in states through partnerships- International S&T Cooperation, Bilateral S&T Centres (3)
- Societal interventions of S&T / Science Communication.. Societal Connect & Contract: **Science for People, People for Science**

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MoST BUILD STI CAPACITY & CAPABILITY

- ❖ Fellowships/Awards
- ❖ Individual EMR Projects (PI- Centric) (basic & applied)
- ❖ Individual EMR Projects (PI- Centric) (Tech dev)
- ❖ Collaborative Projects (I-A, International)
- ❖ Institutional Capacity Building Grants
- ❖ Technology Business Incubators/ Start ups grants
- ❖ Societal based projects
- ❖ Location based Projects
- ❖ Women Scientist Related Projects
- ❖ Science Popularizations & Awareness Projects

Innovation Ecosystem Development: In formal Sector

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Sub-schemes/ Major Programmes under DST's

Three Umbrella Schemes
 One National Mission on ICPS

S&T INSTITUTIONAL & HUMAN CAPACITY BUILDING

- ◆ **INSPIRE, MANAK**
- ◆ **R&D support** (FIST, PURSE, SAI, SATHI)
- ◆ **State S&T Progm.**
- ◆ **Policy Research Cell** (PRC, NSTMIS)
- ◆ **KIRAN** (WOS (A,B,C), Mobility, CURIE, US-STEMM Fellowship)
- ◆ **Swarna Jayanti Fellowship**
- ◆ **TRAINING**

RESEARCH & DEVELOPMENT

- ◆ **International Cooperation**
- ◆ **Nano Science Technology**
- ◆ **Mega Facility for Basic Research**
- ◆ **Climate Change Programme**
- ◆ **National Super Computing Mission**
- ◆ **TFAR/ FFT**

INNOVATION, TECHNOLOGY DEVELOPMENT AND DEPLOYMENT

- ◆ **Tech Dev. Progm** (TDT, TMD (E&W), NGP)
- ◆ **S&T Programme for Socio-economic Development** (NEB, NIDHI, NCSTC, SEED, SCP, TSP, WTP)
- ◆ **Drugs & Pharmaceutical Research**
- ◆ **Technical Research Centre**

❖ **National Mission on Interdisciplinary Cyber Physical System (ICPS)**

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DST/SERB R&D FUNDING

❖ DST/SERB implements various schemes for promotion of R&D.
 ❖ Supporting Extra Mural Research (EMR) funding (~ 50% national share)

SERB

- Basic Research (Subject specific, Thrust areas)
- Fellowships, Awards
- Travel Grants/Seminar/ Symposia Grant

DST

- **INSPIRE – Attraction towards Science**
- **Technology Development** (DDP, AMT, WMT, BDT)
- **MISSION Based** (NANO, SOLAR, WATER, ENERGY, NSM, CPS)
- **Innovation / Entrepreneurship promotion** (NEB-NIDHI)
- **Science Communication & Popularization- NCSTC**
- **Societal intervention- SEED**
- **Specific support** (CCP, MEGA, State S&T, INTERNATIONAL)

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DST Infrastructure Creation and augmentation Schemes

- FIST** • PG Colleges with Science Depts
- PURSE** • Performing Universities...
- SAIF/SATHI** • High End Analytical Instruments in Research Institution

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Viewing Dr. Akhilesh Mishra, ...

How to write a R&D Project Proposal for Funding ?

- Information
- Interest
- Involvement
- Clarity
- Complete
- Convincing
- Competency
- Commitment

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Hemwati Nandan
Cohost

Arvind C Ranade

About Vigyan Prasar

HISTORY	Vigyan Prasar (VP) is an autonomous organisation under Department of Science and Technology established in 1989.
OBJECTIVES	VP's objectives are to under take large-scale science communication tasks/activities to promote and propagate scientific and rational outlook.
CONTENT	Develop resource material to act as a resource-cum-facility centre for S&T communication.
COLLABORATIONS	Establish the linkages between scientific institutions and community for mutual and exclusive growth.

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from Neelam Dharmstku to everyone: 1:36 PM
thanku sir

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Arvind C Ranade

Major Programmes of VP

Publications

VIPNET
Science Clubs

National
Science Film
Festival

BHASHA
Project

Audio-Visual

Gender &
Technology
Comm.

HAM Radio

Exhibitions &
Fairs

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- DP Deepak Painuli
- DN Deepak Singh Negi
- D Dell

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Dr. Nishant Me Neeraj Pandey Arvind C Ranade

Audio Video Production

Viewing Arvind C Ranade's a...

Involvement in producing Science Serials, Science News, Documentary Programs, Video Spots

Producing 200 episodes (100 hrs) science programs per year reaching out to 30 lakh people every year

Initiated in 1989

Weekly broadcast in 19 major Indian languages

Broadcasting from 117 AIR Stations

Coverage- 91.85% Serving- 99.18% population

Special Radio prog. for Tribal Community

Resources available on YouTube, NISCAIR Tube, Teacher Portal, (NROER) of NCERT

Television

Radio

Programs produced in

Assamese	Bengali	English	Hindi
Kannada	Tamil	Oriya	Punjabi
Marathi	Urdu	Telugu	Gujarati

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Vigyan Prasar NETWORK of Science Clubs

Viewing Arvind C Ranade's a...

Vigyan Prasar NETWORK, started in 1993 with the objective of providing a fillip to the science clubs movement in India.

A network to weave all science clubs, societies, organizations which are already established, or are going to be established, and are willing to work with Vigyan Prasar.

Stimulation of the spirit of curiosity, enquiry, innovation and creativity through activities which would supplement conventional education and make science a very enjoyable and interesting pursuit

Science club activities are essentially people related activities.

They are not formal classroom or laboratory experiments, nor do they provide any bookish or theoretical knowledge.

But they invite and involve people to see, do and learn things by themselves and find out the truth.

It is therefore, they are strong link between the community and schools.

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Gender and Technology Communication

Initiated in 2010

Development and dissemination of quality resource material on Gynecological Cancer, Health and Hygiene and Street food safety.

To promote research and create awareness for communication of technologies to improve quality of lives and opportunities for gainful empowerment of women both in urban and rural areas and both women and men farmers, artisans and tribal and unorganized sector.

Areas of Concern

- ❖ Women's Health
- ❖ Nutrition and Food Security
- ❖ Livelihoods
- ❖ Sanitation and Hygiene
- ❖ Technologies for Women
- ❖ Environment and Energy
- ❖ Agriculture and Biodiversity
- ❖ Technology Communication

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National Science Film Festival

Involves Screening of film, workshops on science film making and Awards to Best Films in each Category

1000+ Films Received in the film festival till date

Initiated in 2011 (5 day Festival)

The festival and competition aim to showcase, nature, acknowledge and encourage efforts by professional and student science film makers for their outstanding work.

Popular Science Film to communicate and develop scientific Temper (General Public)

Popular Science Film to communicate and develop scientific Temper (Children 6-12 years)

Film on Science Technology and Innovation (General Public)

Film on Science: Film made by student/pursuing degree/diploma

How do I see Science film made by students of Class VI to XII

Categories of Films

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Bhasha Project

Science Communication and Extension in Regional Languages (SCoPE)

Workshops Bengali Tamil Magazines

Training Prog. Urdu Kannad Films

Books Assamese Marathi Radio Prog.

Upcoming In other regional languages also

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Dr. Nishant
Me

Hemwati Nandan
Co-host


Arvind C Ranade

Funding

Vigyan is not the funding agency and does not provide funds to any organization directly for their project/ program

Vigyan Prasar does the joint collaboration with other organizations and support it depending upon the sope of a programs

All the funds supported by Vigyan Prasar are the grant-in-aid received from DST.

Funding is subject to a specific peroid and reveiued time to time.

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