

NDRF NEWSLETTER

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NDRF Golden Jubilee Year

IE(I) Centenary Celebrations

Webinars & Meetings

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DIRECTOR
NATIONAL DESIGN AND RESEARCH FORUM
The Institution of Engineers (India)

No.3, Dr. B.R. Ambedkar Veedhi, BENGALURU -560001

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NDRF WEBINARS

Webinar on “Research Opportunities for Engineering Faculty Members Post COVID-19” on 13th June 2020



NDRF had organized a Webinar on “**Research Opportunities for Engineering Faculty Members Post COVID-19**” on 13th June 2020. The webinar was attended by participants from various educational Institutions and Industries from five Indian States.

Padmashri. Dr. M. Annadurai, Chairman, NDRF, gave a opening talk on “**New Opportunities for Collaborative Research**”.

He had highlighted the importance of collaborative research and funding opportunities in the Country.

The second talk on “**Emerging R&D trends and Expectations from Academic Research**” was given by Dr. V. Dillibabu, Director-NDRF.

The third talk was delivered by Dr. Anjana Jain, Senior Principal Scientist, National Aerospace Laboratories, CSIR, Bangalore, on “**Research opportunities for engineering faculty post pandemic disease COVID-19**”.

The final talk on “**The Paradigm Shift in R&D Focus Areas and Funding Agencies Post COVID-19**” was delivered by Dr. K. Ramachandra, Former Director, GTRE and Immediate Past Director-NDRF.

The webinar participants had a good interaction with the speakers. The vote of thanks was given by Shri. B.S. Sankar Reddy, Manager, NDRF. e-certificate was distributed to all the participants.

Webinar on “Additive Manufacturing: Applications, Future Trends & Research Opportunities” - 27th June 2020



NDRF had organized a Webinar on “**Additive Manufacturing: Applications, Future Trends & Research Opportunities**” on 27th June 2020.

The webinar was attended by participants from various educational institutions and industries from Andhra Pradesh, Telangana, Karnataka, Tamilnadu, Maharashtra, Rajasthan, Uttar Pradesh.

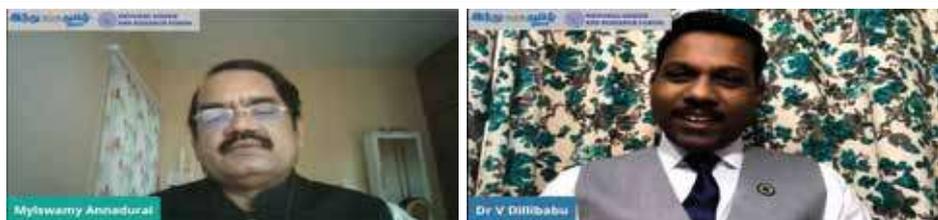
The webinar was inaugurated by Padmashri Dr. Mylswamy Annadurai, Chairman, NDRF.

The following speakers had delivered the lectures:

- Dr. Prof. K.P. Karunakaran, Indian Institute of Technology, Bombay on “**Additive Manufacturing Techniques & Electron Beam AM**”.
- Prof. J. Ramkumar, Indian Institute of Technology, Kanpur on “**Additive Manufacturing for Medical, Agriculture and other Applications**”.
- Dr. U. Chandrasekar, Program Director, Wipro 3D, Bengaluru on “**AM for Aerospace, Defence and Strategic Sectors**”.

Dr. V. Dillibabu, Director-NDRF and Scientist-DRDO gave the overall summary and closing remarks for the webinar. e-certificate was distributed to all the participants.

Webinar on “How to become a Scientist?” - 4th to 8th June 2020.



NDRF-Hindu Thamizh Thisai, Newspaper from The Hindu Group, jointly organized a Webinar on “**How to become a Scientist?**” from 4th - 8th June 2020.



The Webinar was attended by 225 participants from Tamil Nadu, Karnataka, Andhra Pradesh, Uttar Pradesh, and Kerala.

The five day webinar was addressed by eminent personalities for one hour each day.

The first day's talk was given by Padmashri Dr. Mylswamy Annadurai, Chairman, NDRF & Vice President, Tamil Nadu State Council for Science & Technology, on the topic “**How to become a Space Scientist?**” on 4th June 2020.

The second day's talk was presented by Dr. S. R. Ramanan, Former Director, Meteorological Department, Chennai, on “**How to become a Weather Scientist?**” on 5th June 2020.

The third day's talk on “**How to become a Defence Scientist?**” was delivered by Dr. V. Dillibabu, Scientist, DRDO and Director-NDRF on 6th June 2020.

The fourth session was conducted by Dr. T. V. Venkateswaran, Division Head, Vigyan Prasar Department of Science and Technology, New Delhi on the topic “**How to become a Scientist in Science and Technology Department?**” on 7th June 2020.

The final day presentation was made by Dr. B. Venkatraman, Distinguished Scientist and Director-SQRMG, Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakam on the topic “**How to become an Atomic Scientist?**” on 8th June 2020.

The webinar participants had fruitful discussion with the subject experts. e-certificate were awarded to all the participants.

Technical Advisor Meeting - 29th June 2020



Online Technical Advisor Meet was conducted on 29th June 2020. Thirteen technical advisors of NDRF attended the meeting. Dr. M Annadurai, Chairman, NDRF, chaired the meeting. He welcomed the Technical Advisors and gave an overview of the ongoing technical activities and encouraged the technical advisors to take up new technical and R&D activities.

Dr. V. Dillibabu, made a detailed presentation on NDRF activities and had detailed discussion on the following topics:

- Briefing on NDRF activities and projects
- Review of Minutes of previous Technical Advisors Meet held on 29th July 2019
- Identification and Execution of New Projects
- Design and conduct of Webinars /online training programs
- Suggestion on fund generation opportunities
- Suggestions for inclusion of new Technical Advisors
- Events planned: April 2020 to March 2021

Meeting on Composites - 23rd May 2020



Online meeting was held on “NDRF Collaborative Research work for Composites” with Society for Development of Composites, on 23rd May 2020.

Dr. R. Gopalan, Director, CEO, Composites Technology Park & Society for Development of Composites, attended the meeting.

Meeting was chaired by Dr. M. Annadurai, Chairman NDRF. Composites Technology Park would work with NDRF in collaborative mode in the areas training & composites for societal applications.

Webinar on “Artificial Intelligence and IoT Its impact on education and industry post-pandemic” - 17th May 2020.

Webinar on “Artificial Intelligence and IoT- Its impact on education and industry post-pandemic” was organised by The Hindu Group on 17th May 2020.

Dr. V. Dillibabu Director-NDRF, delivered a Keynote Speech. Webinar was attended by 700 students of 11th and 12th std(Engineering Aspirants) and parents.



Webinar on “WORLD CANSAT/ROCKETRY CHAMPIONSHIP” - 22nd to 26th June 2020

Webinar on “WORLD CANSAT/ROCKETRY CHAMPIONSHIP” was conducted from 22nd - 26th June 2020. Padmashri Dr. Mylswamy Annadurai, Chairman, NDRF had Inaugurated the program.

Eminent Scientists of ISRO-Veterans, Padmashri Prof. R. M. Vasagam and Padmashri Dr. Y. S. Rajan, Former President, IET Dr. L.V. Muralikrishna Reddy, Dr. V. Dillibabu, Director- NDRF and others has felicitated the participants. 924 participants registered from 62 Countries.



NDRF Upcoming Program

NATIONAL DESIGN AND RESEARCH FORUM (NDRF)
The Institution of Engineers (India)

Online INTERNSHIP PROGRAM

10 Days
3rd to 14th Aug 2020
5:30 to 6:30 PM

ELIGIBILITY: 3rd and 4th Year Students of all Streams of B.E. / B.Tech / AMIE

TOPICS COVERED

- 1. TECHNICAL TOPICS:
 - Industry 4.0
 - 3D Printing & Bio-Printing
 - Artificial Intelligence
 - Internet of Things (IoT)
 - Drone and Technologies
 - Six Sigma & Quality Concepts
- 2. GENERAL TOPICS:
 - Disruptive & Business for Engineers, Future ready Engineers
 - e-Mobility and Future Trends
 - Space Technologies and Opportunities
 - Aeronautical Technologies and Opportunities
 - Intellectual Property Rights
 - Design Thinking
 - Future Technologies and many more

SPEAKERS: ISRO, DRDO, CSIR, IIT Bombay, IIT Kanpur, IIITDM and other Organizations

Inaugural Address by: **Dr. Mylswamy Annadurai**
President, Institution of Engineers (India)

100% Discount for Group registration of 10 Students
Internship Certificate will be issued

Poc: 9480174136 / 9901903336
S. S. Sankar Reddy, Manager NDRF

Rs. 999/- Registration Fee
Last date for Registration: **31st July 2020**

NDRF is organising a 10 days Online Internship Program from 3rd to 14th August 2020.

Eligibility: 3rd and 4th Year Students of all streams of B.E./B.Tech/AMIE.

Last date for registration: 31st July 2020.

Speakers from ISRO, DRDO, CSIR, HAL, IIT Bombay, IIT Kanpur, IIITDM, & other organisations.

Please visit <https://ndrf.res.in/ip.php> for more registration & details.

Current Program

ALL INDIA STUDENT DESIGN COMPETITION 2020

5th Edition
3020

Competition Disciplines

Direct your queries to: **MANUAL: INDIA 400 RESUME FINDER**
The Institution of Engineers (India)

NDRF is happy to announce the 51st All India Student Design Competition - 2020 on behalf of the IE (I). The competition is open to students studying in Final/Pre-Final years leading to BE / BTech / ME / MTech /MS or equivalent

courses in engineering or technology and also to students who have cleared their at least section-A of the IEI.

The **last date for receiving the proposals for the competition is 5th September 2020**. Please visit <https://www.ndrf.res.in/> for Online application & more information

NDRF Book Store

Book on Bio-Aerodynamics of Avian Flight



Price: Rs. 375/-

Book on Space and Satellites



Price: Rs. 299/-

Book on Acoustics & Noise Control



Price: Rs. 350/-

Book on R&D Management



Price: Rs.150/-

Monograph on Wood Science, Engineering and Technology



Price: Rs. 390/-

Monograph on Sensor Networks for Air Pollution



Price: Rs. 390/-

Book on Taoist directions for Design & Development



Price: Rs. 300/-

Monographs on Seaplanes



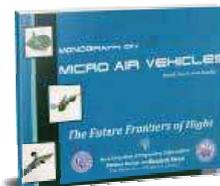
Price: Rs. 250/-

Monograph on Bio-Printing



Price: Rs. 250/-

Monograph on Micro Air Vehicles



Price: Rs. 999/-

Monograph on Nanosensor technology last technological revolution?



Price: Rs. 375/-

Monograph on 3D Printing



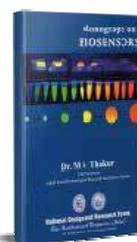
Price: Rs. 250/-

The Discipline & Culture of Innovation: A Socratic Journey



Price: Rs. 333/-

Monograph on Biosensors



Price: Rs. 175/-

How to Buy?

- Online Money transfer

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Account Number: 64142075966

IFSC : SBIN0040022

Email the transaction details : ndrf85@gmail.com

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