

CURRICULUM VITAE

Dr. DINESH SINGH RANA
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Name : DINESH SINGH RANA
Official Status : Professor
Father name : Late Sh. M. S. Rana
Date of birth : 24.12.1970
Office Address : Department of Instrumentation
Kurukshetra University, Kurukshetra -136119

Field(s) of Specialization : Instrumentation (Process Measurement & control,
Automation, Sensors Actuators, Digital Signal Processing)
Smart Material development for Sensors, Actuators and
Energy harvesting
Synthesis of nanostructured conducting polymers for sensor
applications

Academic Qualifications : Ph.D. Instrumentation Engineering (KUK)
M. Tech. Instrumentation[NIT (Formerly REC), Kurukshetra]
M.Sc. (Physics), Specialization in Electronics (Kumaon University,
Nainital)

Teaching & Research Experience: 30 Years for Engineering Courses (UG & PG, Ph.D.):
Educational and other Institutions/ Organizations Served- T.I.E.T,
Patiala [1995]

Credentials : Qualified GATE-91 conducted by I.I.T. Madras (Chennai)
Qualified Joint CSIR-UGC –1990 (NET) examination

Member of Professional Societies: Founder/ lifetime Member of Vigyan Bharti,
Haryana State, Member of Indian Science Congress,
International Association of Engineers (IAENG),
Instrumentation Society of India and ISCA etc.

National Project : Contributed and handled TEQIP-Phase-1.1 ,
TEQIP-Phase-1.2 and TEQIP-Phase-1.3

Major Research Publications:

- In National and International Journals of repute: 47
- In the form of National and International Conference proceeding: 45
- Conferences/symposia/seminar attends and abstract/full paper publications: 30
- Summer school/ lecturer delivered in national/ International conference: 15
- Short term technical program Attended: 25
- Ph. D. (Instrumentation Engineering) Supervised so far: 3
- M. Tech. (Instrumentation Engineering) thesis Supervise so far: 45
- Book edited: 1, Proceedings of National conference on Recent Advances in Process Control & Instrumentation Engineering (RAPCIE '06' IIE, KUK), ISBN-81-8424-053-8
- Coordinator of M. Tech. course in Process Control Instrumentation under TEQIP Project.
- Laboratories Setup (PG& UG): Process control, Modeling& Simulations and DSP
- Research Lab Setup(Ph.D.): Measurement, Smart Materials & Sensors development

COMMUNICATION SKILL:

- MSDOS, UNIX, OS/2, JAVA, CORBA, BEAN, ORCAD, PCAD, MAXROOT, FORTORN, C AND C++.
- PLC programming languages; Ladder diagram, Functional Block, Boolean, C and C++ languages, RS Logic, Ladder Sim, MATLAB, Fuzzy Control Simulation tools Lab view etc.,

Academic/Administrative Responsibilities within the University:

- Chairperson , department of Instrumentation from July 2016 to July 2019
- Programme Coordinator, YRC Dec.2023 onwards
- Programme Coordinator NSS, June 2016 to September2022
- Chief warden (boys) January, 2021 to Dec.2023
- Director, Directorate of Physical Education and sports from July3 2019 to July 2020
- Director, Directorate of Physical Education and sports from 2024 onwards
- Founder coordinator of M.Tech. Program in Instrumentation Engineering,
- Member of Academic Council, July 2016 –Aug. 2020 & Jan 2021 to Dec.2023
- Member of CPC, July 2016 –Aug. 2020
- Member of Faculty Committee, Since 2006
- Member of Anti ragging committee, 2012 -2019
- Vigilance Officer, Kurukshetra University September2016 –June 1019
- Chairman of DRC, UG & PG Board of Instrumentation July 2016- July2019 etc.
- Member of UG & PG Board of Instrumentation July 2012- onwards

Visit Aboard for the Research work/Academic training

- *International Technical Training Cum Symposium on Industrial Pneumatic Technology (Pneumatic Automation and Systems) from 19th- 23rd March, 2007 organized by SMC, Sydney , Australia*
- *World Congress on Engineering,(U.K. London, July 2 - 4 (2008)*

➤ Courses taught at Postgraduate and Undergraduate levels:-

- ✓ Post Graduate level: Industrial Process control, PLC & SCADA Systems, Distribution Control and Automation, Micro sensors &MEMS, Digital Signal Processing

- ✓ Undergraduate level: Control system components, Linear Automatic control system, Theory of Errors & Measurement system, Industrial Process control ,Digital Signal Processing

Sangthan Responsibility:

- President, Kurukshetra Vishwavidyalaya Shaikshik Sangh unit of Akhil Bhartiya Rashtriya Shaikshik Mahasangh
- Active member of Panchnad Sodh Sansthan, Kurukshetra
- Founder/ lifetime Member of Vigyan Bharti, Haryana State

Social Activities/work: Programme Coordinator of National Service Scheme (NSS& YRC) at present

Organized following programmes in campus:

- Sawachta Abhiyan on every 26thday of month, 2016 onwards every year
- Workshop on Digital India on 24th August, 2016
- Seven Days Training & Orientation Programme for NSS Programme Officers on 30th August, 2016 to 05th September, 2016
- NSS Day Celebration on 24th September, 2016 onwards every year
- Trial Camp for Pre Republic day Parade on 15th October, 2016 onwards every year
- Swaran Jayanti Run for Haryana on 15th November, 2016 onwards every year
- Celebration of Constitution day on 26th November, 2016 onwards every year
- Youth day celebration on 12 January, 2017 with theme Smarth Yuva Samras Bharat under Samras Bharat Abhiyan in collaboration Samajik Samrsta Manch Haryana
- One day Workshop on Swarna Jayanti Digital India – Vittiya Saksharta Abhiyan Basic Concept & Approach organized on 20 January, 2017
- Started Republic day Parade compulsory for NSS volunteers on 26th January 2018 onwards for University Campus.
- *Providing training to NSS Programme Officers and Volunteers regarding the matter of National pride every year like Swachh Bharat Abhiyan, Fit India Programme, recently Covid-19 sensitization programme to Public through our NSS volunteers.*
- NSS Cell Kurukshetra University Kurukshetra organizing the various activities of swachta abhiyan on every 26 th day of month from 24 th Sept 2016 to onward.
- NSS Cell organized “Swarn Jayanti-Run for Unity-Run of Haryana” on the theme of Haryana Ek Haryanvi Ek-Ek Bharat Sharesth Bharat on 15.11.2016. More than 4000 students, teachers and other

staff members were participated.

- A Mega Swarna Jayanti Blood donation camp was organized on 03th March 2017 by NSS Cell. In this camp 726 Unit were donated. Beside this 164 blood donation camps were organized and units of 10697 donated by the NSS volunteers.
- Two Orientation course for NSS Programme Officers organized by NSS Cell of Kurukshetra University dated 30.8.2016 to 05.9.2016 and 24.8.2017 to 30.08.2017.
- Kurukshetra University National Service Scheme Cell organized two one day workshop on ‘Digital India’ in collaboration with Ministry of Communication and Information Technology, Government of India of NSS Programme Officers and another one day State Level “Swarna Jayanti Digital India workshop-Vitiya Saksharta Abhiyan-Basic concept and approach” on 20.01.2017
- NSS Cell KUK organized one day National symposium on the theme of “Samarth Yuva Samras Bharat” at the occasion of Yuva Diwas on 12.02.2017.
- NSS Cell KUK organized one day symposium on the theme of “Mahatma Gandhi Gramin Parbandhan Vidya Abhiyan” with collaboration with Mahatma Gandhi National Council of Rural Education, Hyderabad on 17.02.2018
- NSS Cell KUK organized the State Level Declamation Competition on the topic of “Rashtriya Nirman Mein Yuva Ki Bhumika” on 20.09.2018 in which 1 st position holder of ten Universities of Haryana State were participated. And the second University Level Declamation Contest organized on 19 th September, 2018.
- NSS KUK celebrate the Surgical Strike Day on 29 th September 2018 whereas 40 NSS Programme Officers and 150 NSS Volunteers were participated.
- NSS Cell organized one day State Level Workshop on Public Finance Management System (PFMS) dated 28.08.2018 and around 300 Programme Officers were participated and the second one day University Level Workshop organized on PFMS dated 16.01.2019 and around 115 Programme Officers were participated.
- NSS Cell also celebrated “Rashtriya Ekta Diwas” on the eve of Celebration of Sardar Vallabhbhai Patel’s Birth Anniversary on 31.10.2018.
- Swachh Bharat internship 2.0 organized in Kurukshetra university campus and its in its affiliated colleges from June 10,2019 to July 31, 2019.
- Swachhta Pakhwara programme from Aug.1-15, 2019 and every year.
- A pledge ceremony organized every year on raising awareness among people for making water conservation (Jal Abhiyan)
- Fit India movement campaign organized every year.
- Run for Unity organized every year on the eve of Birth anniversary of Sardar Vallabhbhai Patel.
- NSS cell organized one day University level work shop on PFMS for PO, NSS.
- Organized of one day Orientation Programme on PFMS under nationwide celebration of India@75- Azadi Ka Amrit Mahotsav “Bharat Ka Amrut Mahotsav” for NSS Programme Officers of University and its affiliated Colleges on 02.09.2021. In this Orientation Programme, nearly 175, Programme Officers from various Colleges affiliated were trained under the said workshop. In the evening session a seminar organized on the topic "Self-reliant Haryana and Employment"
- Vigilance awareness week was observed every year by all NSS units of KUK.
- International Day of Yoga (IDY) is celebrated on 21 st June, every year by all NSS units of KUK.
- Kurukshetra University NSS Cell and its affiliated Colleges observed the 31 st Road Safety Week from 11 th January to 17 th January, ever year to make mass aware of the traffic rules.
- ***Management plan to fight against the Corona virus COVID-19**

The Programme Coordinator Dr. Dinesh Singh Rana, Kurukshetra University, Kurukshetra drill a strong plan for spreading awareness in the society during COVID-19 pandemic. The Programme Co-ordinator arranged the training programme for Programme Officer, NSS Volunteers through Electronic Communication (online) on “what to do or don’t” for prevention to the COVID-19 and also trained the NSS Programme Officers and NSS Volunteers to prepare sanitizer at their home. The Programme Coordinator direct the Programme Officer for each district to continuously share and collect data with District Administration time to time for combating program against the COVID-19. During this campaign NSS volunteers made masks and distributed to their nearest zone. Arogya Setu App also downloaded by NSS volunteers and inspired others.

Kurukshetra University NSS cell organized Vaccination camp for covid-19 in collaboration with UIET on April 13, 2021. Also motivate others. A management plan to fight against the COVID-19 has been made under the dynamic leadership of Hon’ble Vice Chancellor of Kurukshetra University Prof Somnath Sachdeva, to let’s make COVID-19 protected KUK campus. Under this plan, A COVID Kitchen started on May 8, 2021 in University campus for

quarantine employee of Kurukshetra University and others. Further a series of Vaccination camps of covid-19 were organized in campus for public in general and special Vaccination camps (May 28, August 10, 2021) for international students to fight against Covid-19 in particular.

- Other Awareness programmes organized:

Run for Unity, Road Traffic & Safety, Quiz on Road Safety, National Integration Week, Voters Day, Awareness for demonetization, Programme on depression, Sexual harassment, Nation Unity Day, Women Empowerment & Cleanness, Stubble Burning, Water Conservation, Yoga Day, Pollution free Environment, Beti Bachao Beti Padhao, Election Campaign, Self Defence Training, National Unity Day, Posco Act, Financial Literacy Program, Drug de-addiction, Say no Plastic, Mental Health, Haryana Saheedi Diwas, Rally on Birthday of Mahatma Gandhi, Poster and Easy writing competition on Transport, Yoga practice harmony, World TB day, Save Earth Day, Rally on Potion Pakhwara, Swachhta Rally in Slum Area, Pledge against consumption of Tambacco, National Integration Pledge, Gender Equality, Rally on Surgical Strike, Rally on Sardar Patel Birthday, Religion Integral Week, Pledge on life, Demonstration of hygienic sanitary pad etc.

