



# DAYANAND SCIENCE COLLEGE, LATUR

## ACADEMIC REPORT

25 Feb. 2020 to 30 Dec. 2020

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### New Initiatives –

- New proposals submitted to University for getting approval to start – i) P.G. course in Botany, ii) P.G. course in Zoology iii) U. G. course in Biotechnology.

### Department of Mathematics :

- **Mathematics Department** Organized one day workshop on “**Online Ph.D. Course works**” at Dayanand Science College Latur, during 10-25 June. 2020. Total 17 Pd.D. Students and Teacher participants attended this workshop.
- **Mathematics Department** Organized Dist-Level “**International e-Conference on Nonlinear analysis and it’s Applications**” organized at Dayanand Science College, Latur, on the date 05 Jan. 2020 for UG and PG students. Total 306 participated in this competition.
- **Research Papers :**
  - **Dr. S. S. Bellale** has been published the research paper, “ The Solution for First Order Differential Inequalities in Banach Algebra” in the Journal *International Journal of Mathematics And Computer Research*, ISSN 2320-7167 Issue 05 May 2020, Page No 2046-2052
  - **Dr. S. S. Bellale** has been published the research paper “Approximation solution of Nonlinear First Order Ordinary Abstract Measure Differential Equations by Using Dhage Iteration Method”, in The Journal *,Science PG Applied and Computational Mathematics*, IISN2328-5605 May 2020
- **E-Content Development :**
  - **Dr. S. S. Bellale** has been developed 275 e-contents for UG and PG students these e-Contents are published on SRTMUN, website.

### Department of Physics, Electronics & Comp. Sci. :

#### Departmental Activities:

- Department of Physics is going to organize 3 days on-line workshop on Quantum Mechanics & Electronics, During 1 – 3 Jan. 2021 in Collaboration with Indian Academy of Sciences, Bangalore.
- Department of Physics organized 3 days on-line International Conference on “Material Science and Nanotechnology” during 17 – 19 Dec, 2020. About 170 Participant from India and Abroad participated this workshop.
- Our Department is running B.Sc. Physics / Electronics / Computer Science, B.C.S., M.Sc. (C.S.) & M.Sc. (Physics).
- **Faculty Activities :**
  1. **Dr. L. V. Thakre -**
    - Completed Certificate training course on Arduino training organized at Bajaj College of Science offered by Spoken Tutorial Project IIT, Bombay, funded by NMEICT, MHRD, Govt. of India (online).
    - Completed FDP on “SCILAB” conducted by Rajarshi Shahu College & IIT, Mumbai from 1<sup>st</sup> to 17<sup>th</sup> May, 2020.

- Completed FDP online on NAAC A & A 5 days program organized by Shri Shivaji College, Parbhani from 21<sup>st</sup> to 25<sup>th</sup> May, 2020.
- UGC (Paramarsh) online one week faculty development program (FDP) on “E-Content Development” organized by Shri. Shivaji College, Parbhani during 31<sup>st</sup> August to 5<sup>th</sup> September, 2020.
- Attended and presented a paper in e-ICNAA 2020 from 27<sup>th</sup> to 29<sup>th</sup> July, 2020.
- Worked as Resource Person for Ph. D. course work 2020 in Dayanand Science College, Latur.

## 2. Dr. Mahadev Pandge –

- Sanctioned a Research project from SERB, New Delhi of **Rs. 46 Lakhs**.
- Sanctioned a Research project from ISRO of **Rs. 15 Lakhs**.

## 3. Lt. Dr. V. A. Chaudhari -

- P.G. Teacher Recognition in Physics – 11/03/2020.
- **Faculty Development Program (Online)** - Two week FDP on Managing Online Classes & Co-creating MOOC: 2.0 from May 18- June 03, 2020 at Pandit Madan Mohan Malaviya, National Mission on teacher & teaching Sponsored by MHRD, GOI.
- **Resource Person** - At online countrywide National Science Student Development Program during 27 July to 26 August.
- **Short Term Course** – Intellectual Property Right & Patents (online) at UGC-HRDC Goa University held from 04/08/2020 to 10/08/2020.
- **Faculty Development Program** – One week National ICT Tools for effective teaching learning organized by School of Mathematical Science, S. R.T. M.U., Nanded from 11 to 16 May, 2020.
- **Chair Person** – In Online International Conference on Nonlinear Analysis & its application (ICNAA-2020) organized by Dept. of Mathematics, DSC, Latur during July,27-29,2020.
- Completed COVID-19 online training on iGOT platform – 15/04/2020 organized by department of Planning and Training, Govt. of India.
- Screening Committee Member S. R. T. M. University, Nanded at Azad Mahavidyalaya, Ausa for B. Voc. Courses dated on 19<sup>th</sup> October, 2020.

## 4. Dr. V. D. Mote -

- Recognise as an Honorary Rosalind Member of London Journal Press, UK (Membership ID: JY64901).
- **Research Publications :**
- Fabrication of Al-doped ZnO Nanoparticles and their application as a Semiconductor-based Gas Sensor for the detection of ammonia.  
Journal of Material Science : Materials in Electronics 31(15), 12579-12585, 2020.Springer Journal Impact Factor: 2.220
- Ammonia Gas Sensing properties of Al-doped ZnO Thin Films Sensors and Actuators A: Physical 313, 112193, 2020.  
Impact Factor : 2.902, Elsevier Science Direct Journal
- Study of Structural, Optical and Paramagnetic Properties of  $2h_{1-x}Co_xS$  nanoparticles prepared via co precipitation.  
Journal of Material Science : Materials in Electronics : 1-10, 2020 Springer Journal: Impact Factor : 2.220

- **Faculty Development Programs :**

- Two weeks Faculty Development Program on “Managing Online Classes and co-creating MOOCs: 2.0” from May 18 – June 03, 2020 organized by Ramanujan College, University Delhi sponsored by MHRD, PMMMNM on Teachers and Teaching.
- Two weeks Faculty Development Program on “Managing Online Classes and co-creating MOOCs: 2.0” from April 20 – May 06, 2020 organized by Ramanujan College, University Delhi sponsored by MHRD, PMMMNM on Teachers and Teaching.
- One week National FDP & online training on “SCILAB” jointly organized by RSM (Autonomous), Latur and Spoken Tutorial Project IIT Bombay (PMMMNTT) from 1<sup>st</sup> to 7<sup>th</sup> May, 2020.

## **5. Miss. S.D. Lokhande -**

- **Short Term Course -**

- STC-33 on “E-Content Development and Online Pedagogy” from 01/06/2020 to 06/06/2020 organized by UGC : HRDC Saurashtra University, Rajkot, Gujarat.

- **FDP Workshop Webinar -**

- Completed one week Faculty Development Program on “Open Source Tools for Research” from June 08 – June 14, 2020 organized by HRD Pandit Madan Mohan Malaviya National Mission of Teachers and Teaching.
- One week online FDP on “ICT Tools for Effective Teaching Learning from 27<sup>th</sup> April to 2<sup>nd</sup> May, 2020 organized by S.R. T.M.U., Nanded.
- Two days National workshop on “National Education Policy 2020 – Implementation Plan” 26 – 27 Sept, 2020 organized by SRTMU, Nanded.
- Participated in the online “International Workshop on Space Science” organized by Space Education and Research Foundation India during 18<sup>th</sup> to 21<sup>st</sup> May 2020.
- Online workshop on “NAAC Assessment & Accreditation Process” organized by IQAC, RSM(Autonomous), Latur in collaboration with RUSA, Govt. of Maharashtra, Mumbai and JD Office, Higher Education Nanded on 6<sup>th</sup> June, 2020.
- International webinar on “Education Post Corona Era Dimensions in Education” organized by CHETANA International Journal of Education SJIF 2020 – 5.689 from 30<sup>th</sup> May to 06<sup>th</sup> June, 2020.
- Webinar on “Unsolved Problems in Physics” organized by Academy of Physics Teachers Kerala on 23<sup>rd</sup> May, 2020.
- Participated and completed one week “Online Faculty Development Program on Moodle –Learning Management System” organized by IIT Bombay Spoken Tutorial (an initiative of National Mission of Education through ICT, MHRD, Govt. of India) from 4<sup>th</sup> to 8<sup>th</sup> May, 2020.
- One week National FDP & online training on “SCILAB” jointly organized by RSM (Autonomous), Latur and Spoken Tutorial Project IIT Bombay (PMMMNTT) from 1<sup>st</sup> to 7<sup>th</sup> May, 2020.

## **Comp. Science Department Achievements -**

- **International e-conference on Nonlinear Analysis and its Application (ICNAA 2020) during 27-29, 2020 Organized by Department. of Mathematics :** Faculty members of Computer science department are actively working as committee member in this conference for smoothly conduction of each session.

- **E- workshop on Latex :** Department of Computer science organizes virtual 5 days e-Workshop on Latex conducted From date 11<sup>th</sup> August 2020 to 15<sup>th</sup> August 2020. Dr. M. B. Pandage worked as resource person for this workshop and Dr. R. B. Shinde was the Co-ordinator for this workshop. 138 students registered for this workshop and 94 participants were attended the workshop.

- **Faculty Achievement :**

- Dr. R. B. Shinde Worked as a resource person for PHD Course work 2020 in Dayanand Science College, Latur.
- Dr. R.B. Shinde worked as a resource person for PHD Coursework 2020 in Dayanand Arts College ,Latur.
- Ms. Sangita Jaju Presents a research paper in international e-conference on Nonlinear Analysis and Its application (ICNAA 2020) and topic is “A Fuzzy Environmental Model for Predicting Categories of Learner’s in education system.”
- Dr. R. B. Shinde has participated in Online Short Term Faculty Development Programme on “Effective ways to Develop E-Content for Teaching Learning (Computer Science) of Ten Days duration conducted by M.V.P. Samaj’s K.R.T. Arts, B.H. Commerce and A. M. Science (K.T.H.M.) college, Nashik from 21/05/2020 to 30/05/2020 under UGC-Human Resource Development Centre, Savitribai Phule Pune University.

Sr. No.	Program Name	Date	Sponsored	Organized By	Participants Beneficiary (From Department)
1	Faculty Development Program on SCILAB	1 <sup>st</sup> May to 7 <sup>th</sup> May 2020	PMMMNT & Spoken tutorial Project IIT Mumbai	Rajurashi Shahu College	1. Dr. R. B. Shinde 2. Ms. Sangita Jaju 3. Ms. Sujata Kale 4. Ms. Kanchan Kadar
2	2 weeks Online Refresher Course	22 <sup>nd</sup> June to 04 <sup>th</sup> July 2020	IEEE, AICTE, Computer Society of India....	Bhartiya Vidyapith’s Institute of Computer Applications and Management	1. Dr. R. B. Shinde
3	1 Day workshop on C & C++	29 Feb. 2020		IIT Mumbai	1. Ms. Sujata Kale 2. Ms. N. R. Shinde
4.	5 days online SPTP on Matlab based teaching learning in mathematics, science and engineering	18 May to 22 May 2020		Ramrao Adik institute of technology Mumbai	1. Ms. Sujata Kale

5.	1 week Faculty Development Program	25 <sup>th</sup> -29 <sup>th</sup> May 2020	IEEE, AICTE, Computer Society of India....	Bhartiya Vidyapith's Institute of Computer Applications and Management	1. Dr. R. B. Shinde
6.	One Week National Online Faculty Development Program ICT tools for effective teaching learning	27 <sup>th</sup> April to 2 <sup>nd</sup> May 2020		Swami Ramanand Teerth Marathwada University, Nanded	1. Dr. R. B. Shinde
7.	Organizing One Day University Level Online Workshop Under IQAC on "Recent Syllabi of B .Sc Second Year Optional Computer Science in SRTMUN "	20 August 2020		VAI. DHUNDA MAHARAJ DEGLURKAR COLLEGE ,Degloor, Collaboration with Swami Ramanand Teerth Marathwada University, Nanded	1. Dr. R. B. Shinde 2. Ms. Sangita Jaju
8.	Short term training on IOT	1 <sup>st</sup> June to 7 <sup>th</sup> June 2020		Apptronix technologies in collaboration with A.G. Patil Institute of technology solapur	1. Ms. Sujata Kale.

### Department of Chemistry :

#### Research Publications :

- Dr. Y. P. Sarnikar Published a paper in Journal Indian Journal of Public Health Research & Development (2020) 11, 6. 607-612 entitled by Antioxidant and Cytotoxicity Profile of the Selected Alcoholic Beverages.
- Dr. R. S. Shinde published a paper in Bentham science journal Anti-infective agent entitled by Design, synthesis and antimicrobial activities of some trizine chalcone derivatives.
- Dr.N. S. Korde published a paper in journal of emerging technologies and innovative research entitled "Efficient Ultrasound Synthesis and Biological Screening of 1 – (5-chloro 2 hydroxyphenyl) – 3 – (5- bromo 2 – chlorophenyl) propane – 1, 3 – dione and its transition metal complexes (March 2020).

- Dr. N. S. Korde reviewer of Advances in Science, Technology and Engineering System Journal (ASTESJ) – 29 March 2020.
- Dr. N. S. Korde, Bentham Ambassador of Bentham Science Journal – May 2020.
- Dr. N. S. Korde reviewer of International Journal of Engineering Research and Technology - 29 Feb. 2020.

### Books Publications :

- Dr. Yuvraj P. Sarnirkar, published a book in LAMBERT academic publication on ‘ Indloe – 2 - carboxamide as Potent Antibacterial agents.
- Dr. R. S. Shinde Published International Books Titled by –
  - i) Modern Green Chemistry and Heterocyclic compounds.
  - ii) Green Chemistry and Sustainable Technology.
  - iii) Natural pharmaceutical and Green Microbial technology.
- Dr. R. S. Shinde a published a chapters in international books.
  - i) Research Methodology and practices applications of chemistry.
  - ii) Green chemistry and biodiversity
  - iii) Chemistry and Ind. Technology for Chemical engineering.

### Department of Microbiology :

#### Research Publications:

- Vishnu A. Adole, **Rahul A. More**, Babu S. Jagdale, Thansing B. Pawar, and Santosh S. Chobe; Efficient Synthesis, Antibacterial, Antifungal, Antioxidant and Cytotoxicity Study of 2-(2-Hydrazineyl)thiazole. Chemistry select (2020) 5, 1 – 10. (Impact factor-1.76)
- **Rahul A. More**<sup>1\*</sup>, Govind B. Sanap<sup>2</sup>, Mahesh A. Karale<sup>1</sup>, Rajesh N. Gacche<sup>3</sup>, Yuvraj P. Sarnirkar. Antioxidant and Cytotoxicity Profile of the Selected Alcoholic Beverages Widely Consumed In the Maharashtra State of India. Indian Journal of Public Health Research & Development (2020) 11, 6. 607-612
- Thaware Pratibhaa, Karale Pushpa\*b, **Karale Mahesh** and Chavan Pranati. **PHYTOCHEMICAL SCREENING AND PHARMACOLOGICAL EVALUATION OF AEGLEMARMELOS FRUIT**

### Department of Languages :

- Assist. Prof. Pandit M M completed ‘ One Week National Online Faculty Development Program on ICT Tools for Effective Teaching Learning ‘ (11 May to 16 May 2020) organized by Swami Ramanand Teerth Marathwada University, Nanded.
- Assist. **Prof. Pandit M. M.** completed One Week FDP on ‘Educational Video Creation : E-Content Development (FDPEVE-2020)’collaboratively organized by Swami Ramanand Teerth Marathwada University, Nanded and Toshniwal Arts, Commerce and Science College, Sengaoon, Dist. Hingoli during June22-25, 2020 and June 28-29,2020.
- Asst. **Prof. Dr. Bane G. H.** has received recognition as a Post-Graduate Teacher in the subject of “Hindi” under the faculty of “Humanities” in Swami Ramanand Teerth Marathwada University, Nanded.

### **Unmesh :**

- Publication of College magazine 'Unmesh' by the auspicious hands of Hon. Rameshji Biyani and prize distribution of 'Unmesh - Best Writing ' winner.

### **Department of Library :**

- Librarian, Kiran Rangnath Bhise : Completed in Short Term Course on “Samagra Sawarkar” Organized by Swa. Sawarkar Mahavidyalaya, Beed Date : 28 May to 04 June 2020.
- Librarian, Kiran Rangnath Bhise : Completed FDP on “Deep Dive into Emerging Technologies Like Cloud AI, MI & Data Analysis” Organized by Joint Director, Higher Education, Aurangabad & Vaageswari College of Engineering , Karimnagar. Date : 22 to 26 June 2020.
- Librarian, Kiran Rangnath Bhise : Completed One Week Faculty Development Program on “Development of E-Contents, Organization of E-Meetings & Online Classes” Organized by Shri. Murli Manohar Town P. G. College, Ballia Date : 24-29 August 2020.
- Librarian, Kiran Rangnath Bhise : Completed NAeLIN 2020 – Virtual Conference, organized by DELNET, Developing Library Network, New Delhi. Date : 22 – 24 September 2020.

### **NCC Department :-**

- Enrolled Boys and Girls cadets (total 53) in NCC .
- Conducted ‘C’ certificate examination at Dayanand Science College, Latur dated on 08 March 2020.

**Activity :** 1) Covid-19 training for N.C.C. cadets (online training on iGOT platform).

**SOCIAL ACHIEVEMENTS :** 1) Yoga Day 2) Tree Plantation.

**ACHIEVEMENTS:** 1) 100 % result in ‘B’ Certificate and 80 % in ‘C’ Certificate examination.

### **Sports department :-**

- During this period, all types of sports competitions and practice sessions were canceled due to covid-19. During this period a telegram group and whatsapp group of students was formed. With the help of these group videos of various sports demonstrations as well as written information was provided to the students.
- During this time Dr. Mahesh Bembade has presented research papers in two online international conferences, he has also completed two faculty development program which was organized by Ramanujan College, university of Delhi and Indian institute of scientific research analysis, Maharashtra. He has also participated in many on line webinars and workshops.