

Sevadal Education Society's SEVADAL MAHILA MAHAVIDYALAYA

NAAC RE-ACCREDITED WITH 'A' GRADE

Place for Higher Learning & Research (Research Academy) Sakkardara Square, Umrer Road, Nagpur - 440024

Two Day Workshop on Hands on Training on Laboratory Equipments & Instrumentation For Faculty, Research and PG Students

Organised by Department of Chemistry Sevadal Mahila Mahavidyalaya, Nagpur

REPORT

In Association with

C-206, Vaibhai Industrial Estate, Near MTNL, Saki Vihar, POWAI, Mumbai-400072

Sevadal Mahila Mahavidyalaya Umrer Road, Nagpur-9.

INTRODUCTION

Sevadal Education Society's Founder President Shri. Keshraoji Shende established Sevadal Mahila Mahavidyalaya in 1992. Institutional mission and goal aims to empower the students to help them to be confident for higher studies and become reliant. Shri. Keshoraoji Shende strived hard for achieving the goal for imparting higher education, for transmission of knowledge with dynamic interactive environment.

The planning and commitment of the institution of the institution is directed towards implementation of projects along with open access to the expanding world of science. Department of Chemistry offers undergraduate, postgraduate Ph.D programme with experienced faculties and well established laboratories. The Department conducts the programme closer to present technology and practices by training the students in the laboratory and theory courses. The goal and objective of the Department is to prepare the student industry ready by aligning instrumentation education programme to the current technology.

In this context, Two days workshop on "Hands on training on Laboratory Equipments and Instrumentation" for Faculty, Research and PG students was organised by Department of Chemistry of Sevadal Mahila Mahavidyalaya, Nagpur in association with Equiptronics, Mumbai on 30th and 31st July 2019 at Sevadal Auditorium, Sevadal Mahila Mahavidyalaya, Nagpur.

NEED OF INSTRUMENTATION WORKSHOP FOR TEACHERS AND STUDENTS

Being competent and well performing teacher is one of the most important resources in any educational institution. The teacher is considered the professional agent and most directly responsible person in the process of learning. He is the one in-charge of making –helping students learn and benefit or suffer from the quality. There is a persistent need in education to assure effective teaching for students at all levels. Teachers professional training and development is a necessary ingradient to support innovative and beneficial teaching for boosting the quality of education.

To empower and imbibe students with technical knowledge and practical skill in the instrumentation, enabling them to work as professionals in globally competitive environment and contribute to the society through research in higher studies, the workshop was organised.



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ABOUT EQUIPTRONICS

With 39 years of experience in designing and skill, the highly experienced team of Equiptronics has been working on development and supply of cost effective digital equipments in Analytical Chemistry. The Company management has agreed to support the workshop and experts have been deputed to guide and train the participants in safer handling of the instruments. The workshop focuses on the calibration and use of instruments including pH meter, spectrophotometer, conductivity meters, flame photometers, turbidimeters, potentiometers, TDS meters, Digital photo fluorimeter etc.

The instruments are the vital part of methodology of modern science. The realization of the present day of accomplishment in many disciplines such as chemical, environmental, nano and material science has come out through the application of inventions of modern scientific instruments. Technology includes the development and use of modern scientific instruments and techniques which involve ideas of fresh insights, new concepts and innovative approaches to scientific research. The development and establishment of instrumentation facility is the cumulative result of synchronising the technologies involved in Physics, Chemistry and Biology. The aim of organising this activity is to impart knowledge and hands on training, maintenance and applications of advanced instrumentation facility for quality research in Science.



INAUGURAL FUNCTION

The Chief Guest of the Inaugural function programme was Dr. Mrs. Jyotsna Meshram, Professor and Head, Post Graduate Teaching Department of Chemistry, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur. Mr. Mustafa Badshah, Chief Advisor to CEO, Equiptronics, Mumbai was a keynote speaker. Hon'ble Shri. Sanjayji Shende, President Sevadal Education Society presided over the function. Dr. Prof. Pravin Charde, Principal, Sevadal Mahila Mahavidyalaya was present on the dais. Convener of the workshop Dr. Mrs. A. S. Mahakalkar and organising secretary Dr. Mrs. N. S. Dhoble were on the dais.



Chief Guest and other dignitaries lighted the traditional lamp and garlanded the idol of Goddess Saraswati. Music department of the college presented Vidyapeeth Geet.



The Convener of the workshop, Dr. Mrs. A.S. Mahakalkar welcome Chief Guest, Dr. Mrs. Jyotsna Meshram with a momento and tulsi sapling.

Dr. Mrs. Dhoble, organising secretary welcome Mr. Mustafa Badshah with a momento and tulsi sapling.

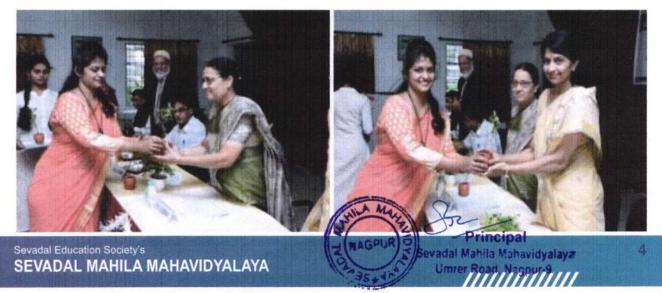


Dr. Mrs. Priya Chahande, member of organising committee welcome Hon'ble President Shri. Sanjayji Shende with a Memento

Dr. Pravin Despande welcome Hon'ble Principal, Prof. Pravin Charde with Tulsi Sapling



Mrs. Arati Duragkar, member of organising committee welcome Dr Mrs. Anjali Mahakalkar, Convener and Dr. Mrs. N. S. Dhoble, Organising Secretary of the workshop





Prof. Charde delivered an introductory address and welcome all the participants of the workshop.

Dr. Mrs. Mahakalkar, Convener of the workshop foreground the theme of the workshop.





The chief guest of the function, Dr. Mrs. Meshram addressed the gathering. She emphasised the need of instrumentation workshop to cope up with new technology. She stressed to pay attentation to value of time and salute one's duty. Further she stressed teachers to prepare ignited students who will be able to apply their knowledge after acquisition.

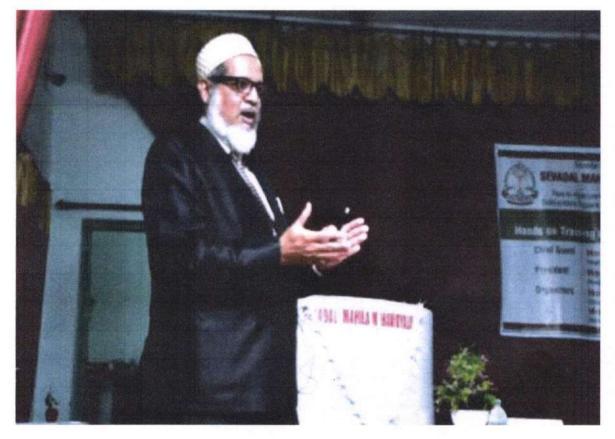
Shri. Sanjay Shende, President of the function congratulated all the delegates for participation. He thanked Equiptronics for providing good opportunity for providing training to teachers as well as PG and research students regarding handling, calibration, standardization of delicate and costly instruments.



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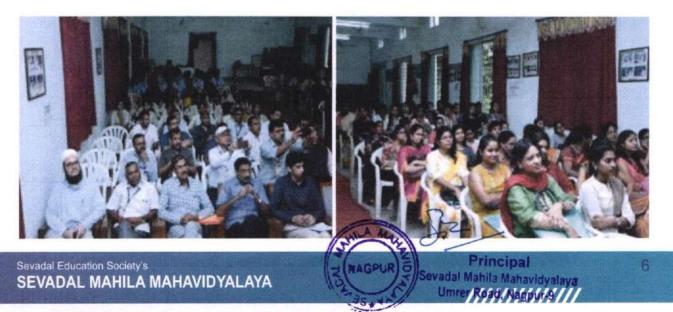
Mr. Mustafa Badshah presented the keynote address. He elaborated details about the various digital instruments brought by the Company. He explained details of each instrument ,procedure to be followed, special care to be taken while performing the experiment. Details of the instruments ,he explained, are given below. Few of them are-

In Beckmann Thermometer melting point of substance can be accurately recorded as one can see melting of substance easily. In digital spectrophotometer one can record maximum wavelength of the solution and concentration of the unknown solution from the readings In digital flame photometer sodium and potassium salt concentration can be easily determined from the experimental graph.



Mrs. Seema Nimbarte, Assistant Professor in Microbiology compared the programme and proposed the vote of thanks.

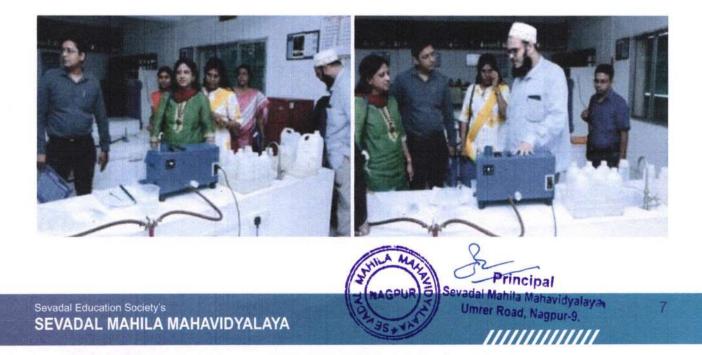
Large number of participants were present on the occasion.



The second session started after the lunch break. The hands on training session was inaugurated at the hands of Mr. Badshah and Dr. Charde, Principal ,Sevadal Mahila Mahavidyalaya. The instruments were arranged in three different laboratories.



The participants and faculties of various colleges were grouped in to three groups. Viz. A B C. Each group performed the experiment accordingly.



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Mr. Mustafa Badshah and his collegues gave away the gifts sponsored by Equiptronics to Head of the Department of each College participating in the workshop.



This practical session came to an end at 4.30pm followed by tea session.

On the second day, first session of Hands on training Experience on Application of Instruments started at 10.30 am.



In this session the groups A, B and C were rotated to other laboratories. These groups were given instruction and demonstration for using digital instruments. The groups performed the experiments. The session continued till 12.30.pm. After the tea break Session 2 commenced. Here the groups exchanged the laboratories to be visited for performing practicals.



In this way all the three groups moved in rotation and had training on all the instruments placed in three laboratories.



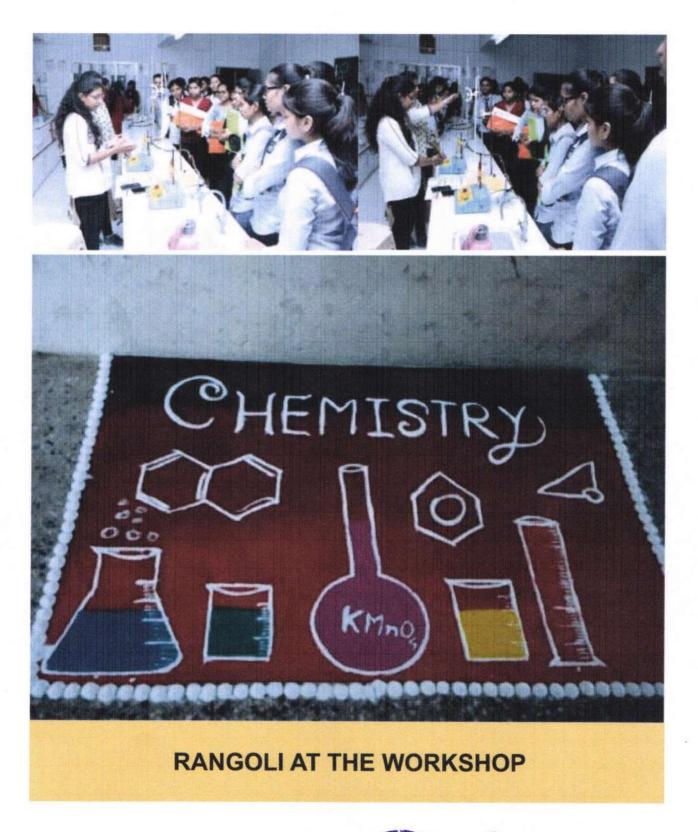
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The participants of the workshop enjoyed Lunch at Lunch





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VALEDICTORY FUNCTION

Valedictory Function was organised at 3.30 pm. Dr.Mrs.Rashmi Batra, Associate Professor, Chemistry Department of Government Institute of Science, Nagpur was the Chief Guest of the Function. Professor Dr.Pravin Charde, Principal , Sevadal Mahila Mahavidyalaya presided over the function. Mr.Ibrahim Khambati of Equiptronics was also on dais. Convener, Dr.Mrs.A.S.Mahakalkar and Organising secretary, Dr. Mrs N.S.Dhoble were also on the dais.



Dr. Mrs. M. P. Patil, member of organising committee welcome the Chief Guest , Dr. Batra with a memento and Tulsi saplings. Dr. N. S. Dhoble welcome Prof. Charde and Mrs. A. M. Duragkar welcome Mr. Ibrahim Khambati with Tulsi saplings.



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Prof. Charde congratulated the delegates for their active participation. He also congratulated members of the organising committee of the workshop and deputed experts for the workshop, Mr Badshah and Mr. Khambati.

The chief guest of the function Dr. Rashmi Batra in her address emphasised the use of all kinds of instruments for development in each corner of life and society. She said that such workshops are of immense importance more than seminars and conferences, as students get acquinted with hands on training, skills required for operation of the instruments. They then can apply this acquired knowledge to other types of instruments.





Mr. Ibrahim Khambati also expressed his views on the occasion. He stated that placement of trained students is preferred in companies.

Dr.Mrs Priya Chahande ,member of organising committee compared the programme and Dr. Mrs N.S.Dhoble, organising secretary proposed the vote of thanks.



Delegates of the workshop expressed their views on the occasion.



Participants at the valedictory function

Participants of the workshop were satisfied and happy as they received practical knowledge by actually performing experiments. Faculties received more information about the modifications in instruments like digital spectrophotometer, Beckmann thermometer, flame photometer etc.

They expressed that such interesting workshops should be organised frequently as they are more useful. Participants said, "Action speaks louder than voice" was the motto of the workshop.



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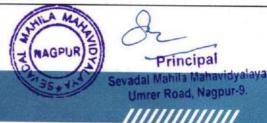
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List of Delegates - Faculties Registered for Workshop

Group-A

S.N.	Name of Delegates - Faculties	Name of College		
1	Dr. Doyel Bhattacharya	D. R. Sindhu Mahavidyalaya, Nagpur		
2	Dr. M. B. Thakre	D. R. Sindhu Mahavidyalaya, Nagpur		
3	Dr. H. C. Pandhurnekar	D. R. Sindhu Mahavidyalaya, Nagpur		
4	Dr. B. G. Yadao	D. R. Sindhu Mahavidyalaya, Nagpur		
5	Dr. P. R. Mohabe	D. R. Sindhu Mahavidyalaya, Nagpur		
6	Dr. S. K. Kharkate	D. R. Sindhu Mahavidyalaya, Nagpur		
7*	Dr. Pinky C. Sonarghare	D. R. Sindhu Mahavidyalaya, Nagpur		
8*	Dr. Bharti S. Anerao	D. R. Sindhu Mahavidyalaya, Nagpur		
9	Dr. P. S. Deshpande	Department of Chemistry (Home Science), Sevadal Mahila Mahavidyalaya, Nagpur		
10	Dr. Mrs. A. S. Mahakalkar	Department of Chemistry, Sevadal Mahila Mahavidyalaya, Nagpur		
11	Dr. Mrs. N. S. Dhoble	Department of Chemistry, Sevadal Mahila Mahavidyalaya, Nagpur		
12	Dr. Mrs. M. P. Patil	Department of Chemistry, Sevadal Mahila Mahavidyalaya, Nagpur		
13	Dr. Mrs. P. P. Chahande	Department of Chemistry, Sevadal Mahila Mahavidyalaya, Nagpur		
14		Department of Chemistry, Sevadal Mahila Mahavidyalaya, Nagpur		



15	Dr. P. U. Meshram	Department of Env. Science, Sevadal Mahila Mahavidyalaya, Nagpur		
16	Dr. Mrs. B. S. Tapase	Department of Env. Science, Sevadal Mahila Mahavidyalaya, Nagpur		
17	Dr. S. L. Pal	Department of Env. Science, Sevadal Mahila Mahavidyalaya, Nagpur		
18	Dr. P. R. Bhandari	Department of Microbiology, Sevadal Mahila Mahavidyalaya, Nagpur		
19	Mrs. S. R. Nimbarte	Department of Microbiology, Sevadal Mahila Mahavidyalaya, Nagpur		
20	Dr. Mrs. K. V. Dubey	Department of Microbiology, Sevadal Mahila Mahavidyalaya, Nagpur		
21	Dr. R. B. Lanjewar	Dharampeth Science College, Nagpur		
22	Dr. Mrs. V. P. Meshram	Dharampeth Science College, Nagpur		
23	Dr. Mrs. D. M. Borikar	Dr. Ambedkar College, Deekshabhoomi, Nagpur		
24	Mr. Nandkishor Telkapalliwar	Dr. Ambedkar College, Deekshabhoomi, Nagpur		
25	Dr. Shubhajit Haldar	Hislop College, Nagpur		
26*	Dr. Mrs. J. M. Moses	Hislop College, Nagpur		
27*	Dr. Shoeb Khan	Hislop College, Nagpur		
28	Dr. Mrs. Naqui Jahan Siddqui	Institute of Science, Nagpur		
29*	Mr. Yashpal Rathod	J. M. Patel College, Bhandara		
30	Dr. A. P. Ganorkar	K. Z. S. College, Kalmeshwar		
31	Dr. R. H. Gupta	K. Z. S. College, Kalmeshwar		
32	Dr. (Mrs.) A. R. Bijwe	K. Z. S. College Kalmeshwar		

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33	Dr. Mrs. S. M. Gadegone	Kamla Nehru Mahavidyalaya, Nagpur	
34	Dr. Mrs. M. S. Wagh	Kamla Nehru Mahavidyalaya, Nagpur	
35	Dr. W. B. Gurnule	Kamla Nehru Mahavidyalaya, Nagpur	
36	Dr. Mrs. S. R. Moghe	Kamla Nehru Mahavidyalaya, Nagpur	
37	Dr. Mrs. Vandana Kharabe	Kamla Nehru Mahavidyalaya, Nagpur	
38	Mrs. Minal Deolekar	Kamla Nehru Mahavidyalaya, Nagpur	
39	Dr. Ketki S. Misar	Kamla Nehru Mahavidyalaya, Nagpur	
40	Dr. Mrs. Charita Patil	LAD College, Nagpur	
41*	Dr. Kanchan P. Khaparde	M. B. Patel College, Sakoli	
42	Dr. Mrs. R. R. Gupta	Mohata Science College, Nagpur	
43	Dr. C. B. Talwatkar	Mohata Science College, Nagpur	
44*	Dr. A. D. Borkar	Nabira Mahavidyalaya, Katol	
45	Dr. P. N. Tatode	Nutan Bharat Adarsh Mahavidyalaya, Umrer	
46	Prof. Mohan A. Borikar	Palloti Engineering College, Nagpur	
47	Dr. Mrs. Kavita Gaur	Priyadarshini J. L. College of Engineering, Nagpur	
48*	Dr. V. K. Batra	Sarvodaya Mahavidyalaya, Sindewahi	
49*	Prof. Amit Uke	Sarvodaya Mahavidyalaya, Sindewahi	
50	Dr. Mrs. Pratiksha Morey	Shri Sai College of Engineering & Technology, Bhadrawati	
51*	Dr. C. S. Bhaskar	Taywade College, Koradi, District Nagpur	
52	Mrs. Shital W. Awghade	Vidya Vikas Science College, Samudrapur	

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S.N.	Name of Students	S.N.	Name of Students
53	Aarti Gupta	77	Prema Bhoyar
54	Ananya Chinmalatpure	78	Rachita Bagde
55	Ankita Kharabe	79	Rani Meshram
56	Aparna Rajurkar	80	Riya Sontakke
57	Ashwini Bangirwar	81	Rohini Khandal
58	Ashwini Lonare	82	Samiksha Dhepe
59	Dr. Mrs. Chanchal Agrawal	83	Sanchita Dhomne
60	Deepali Garghate	84	Sarita Gupta
61	Devyani Chaudhari	85	Sayli M. Turkar
62	Gauri Kale	86	Sharvari Kulkarni
63	Gauri Thubri	87	Shibona Jangale
64	Ketki Tanksale	88	Shrutika Titarmare
65	Komal Hatwar	89	Shweta Padrewar
66	Lata Pardhi	90	Snehal Apturkar
67	Manali Deolase	91	Snehal Sarode
68	Manjusha Taywade	92	Snesha Wasnik
69	Manshree Dongre	93	Sushma Adyalkar
70	Nalanda Gedam	94	Swati Burade
71	Ncha Mate	95	Swati Nagare
72	Nikita Akarte	96	Vinita Baisware
73	Nirmala Sarode	97	Vrushali Khadatkar
74	Dr. Mrs. Prabha Barde	98	Mili Thakkar
75	Prachi Talwekar	99	Dr. Manisha Bokde
76	Pratiksha Gupta		STITLE &

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Group - C

S.N.	Name of Students	S.N.	Name of Students
100	Achal Modak	123	Shubham Meshram
101	Aditi Dhande	124	Smita Parate
102	Aishwarya Vinchurkar	125	Snehal Moundekar
103	Apurva Bangale	126	Tejaswini Chaudhari
104	Atul Lokhande	127	Unnati Titarmare
105	Damini Mohurle	128	Vaishnavi Magar
106	Dikshita Kelwatkar	129	Vaishnavi Sonewale
107	Dipti Burde	130	Zeba Sheikh
108	Gunjan Goswami	131	Kalyani D. Karemore
109	Kalyani Padole	132	Mrs. Manisha G. Kapse
110	Kaviyendra J.	133	Payal S. Dhandare
111	Mansi Deshmukh	134	Pooja M. Kadu
112	Mohinee Mohadikar	135	Pradnya S. Mane
113	Monika Kene	136	Pranali G. Mundle
114	Mrunali Bhendarkar	137	Pranaya A. Ramteke
115	Priyanka Narnaware	138	Saloni S. Gharpande
116	Ritika Beni	139	Shital L. Chandel
117	Sahili Pawar	140	Sushila S. Padole
118	Sanjeevani Titarmare	141	Zeba Naaz Mumtaz Khan
119	Sanskuti Nimje		
120	Seemab Sheikh		
121	Shami Nagulkar		
122	Sheetal Fulzele		Julia Martin

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18

Day - 1 : 30th July, 2019	ORGANISING COMMITTEE Patrons:	And
0.00 am10.30 am. : Registration 0.30 am11.45 am. : Inauguration	Shri Sanjayji Shende, President, Sevadal Education Society, Nagpur	TO DE
Chief Guest : Dr. Jyotsna S. Meshram Head, PGTD Chemistry, R.T.M. Nagpur University, Nagpur	Dr. (Mrs.) Kirantai Barai Secretary, Sevadal Education Society, Nagpur	
Key Note Address : Mr. Mustafa M. Badshah Chief Advisor to CEO, Equiptronics	Chairman: Prof. Pravin Charde,	Sevadal Education Society's
President : Horble ShrL Sanjayji Shende President, Sevadal Education	Principal, Sevadal Mahila Mahavidyalaya, Nagpur Convener:	SEVADAL MAHILA MAHAVIDYALAYA
Chairman Society, Nagpur Chairman Hontle Prof. Pravin Charde Principal, Sevadal Mahila	Dr. (Mrs.) A. S. Mahakalkar (9284782238)	NAME REACCREDITED WITH IX GRADE Place for Higher Learning & Research (Research Academy)
Mahavidyalaya, Nagpur 1.45 am-12.00 noon : Tea Break	Organising Secretary: Dr. (Mrs.) N. S. Dhoble (9970935565)	Sakkardara Square, Umrer Road, Nagpur - 440024
2.00 noon - 01.30 pm : Session - 1	Treasurer:	Two Days Workshop on
Presentation on Instrumentation, Maintenance	Dr. (Mrs.) M. P. Patil (7756022892)	Hands on Training on Laboratory
and Application by Mr. M. M. Badshah, Equiptronics, Mumbai	Members; Dr. (Mrs.) P. P. Chahande (9822710074) Mrs. A. M. Duragkar (9923977666)	Equipments & Instrumentation For Faculty, Research and PG Students
1.30pm02.00pm. : Lunch Break		30 [#] -31 [#] July, 2019
2.00 pm05.00 pm. Session - 2 Hands on Training Experience	REGISTRATION FEE Faculty : Rs.700/- Students : Rs.350/-	
on Application of Instruments		Sevadal Auditorium,
Day - 2 : 31st July, 2019	13 In the second second second	Sevadal Mahila Mahavidyalaya, Nagpur
0.30 am. –11.45 am. : Session – 1 Hands on Training Experience on Application of Instruments	Ser. Walt	Organized by
1.45 am - 12.00 noon : Tea Break	and the second se	Department of Chemistry
2.00 noon - 01.30 pm.: Session - 2 Hands on Training Experience	ATE IL Marine	Sevadal Mahila Mahavidyalaya, Nagpur
on Application of Instruments .00 pm 03.00 pm. : Lunch Break	The second second second	In Association with
3.00 pm03.30 pm. : Group Discussion	AND A MALE AND A	EUUIPTRUNILS
3.30 pm04.30 pm. : Valedictory Function	CALL AND	C-206, Vaibhai Industrial Estate, Near MTNL, Saki Vihar, POWAI, Mumbai- 400072
Chief Guest : Dr. Mrs. Rashmi Batra Associate Professor,	SEJACAL SHEKSHAN SANSTHA NACPUR	Saki Yinar, POYYAL, Mumbar 400072
Chemistry Department, Institute of Science, Nagpur	SEVADAL MAHILA MAHAVIDYALAYA	28 100
President : Hon'ble Prof. Pravin Charde Principal, Sevadal Mahila Mahavidyalaya, Nagpur	Place for Higher Learning & Proventies The Acceleration with a device Solice the Signer, Univer Road, Nagaz - 440 024 (MS.) (PCAA Phone No.: 0712 2705027, 2751344 Fax No.: 0712 2705037 6-walt sem: college/lighterio cite.	Ku and and a



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