# SHRI SHIVAJI EDUCATION SOCIETY, AMRAVATI'S



# SHRI SHIVAJI SCIENCE COLLEGE, AMRAVATI



NAAC Accredited by Grade A with CGPA 3.13 (3rd Cycle)
UGC awarded status of College with Potential for Excellence (2nd Phase)
ISO 9000:2015 Certified College

Idenified by DST, Govt. Of India for FIST & Sant GadgeBaba Amravati University as Lead College



**4**<sup>TH</sup> Cycle

**Assessment & Accreditation by NAAC** 

Criterion-VI GOVERNANCE, LEADERSHIP AND MANAGEMENT

QnM - 6.3.3

Professional development/administrative training programs organized by the institution for teaching and non-teaching staff



Accredited by NAAC with 'A' grade with a CGPA of 3.13 UGC Awarded College with Potential for Excellence ISO 9000:2015 certified College Identified by DST for FIST and SGB Amravati University as Lead College

# Shri Shivaji Science College

Shivaji Nagar, Morshi Road, Amravati - 444 603 M.S.

❖ Founder❖ President∴ Dr. Panjabrao Alias Bhausaheb Deshmukh∴ Hon. Shri Harshwardhan P. Deshmukh

❖Principal : Dr. G. V. Korpe

E-mail: shivajiscamt.office@gmail.com

Web Site: www.shivajiscamt.org

(O) 2660855; (Fax) 2665485;(R)2551400

Ref. No.: SSSC/6471/IQAC/2021 Date: Nov. 22<sup>nd</sup>, 2021

# Declaration

The information, reports, true copies of the supporting documents, numerical data, etc.

furnished in this file is verified by IQAC and found correct.

Hence this certificate.

IQAC Coordinator Shri Shivaji Science College Amravati

Chairman IQAC and Principal Shri Shivaji Science College, Amravati

# **Contents:**

## Year 2016-2017

1. Two Days Workshop on "Inculcation of Activity Based Learning Practices in Science and Mathematics Teachers at Secondary Level and Exploration of Innovative Practices in Teaching -Learning and Evaluation Methods"

## Year 2017-2018

- 1. Shivaji Vidnyan Parishad
- 2. Genome and plasmid isolation, PCR, RFLP, and Primer designing
- 3. The Regional Pedagogy workshop for undergraduate and post graduate science and mathematics teachers
- 4. Training programme for nonteaching staff on ERP Module

## Year 2018-2019

- 1. Avishkar Teacher coordinator workshop
- 2. Maple 2018 Academic Software, Training workshop
- 3. Research Methodology in Current Context

## Year 2019-2020

- 1. Training programme for nonteaching staff on ERP Module
- 2. Online workshop on Effective enforcement of IPR: Patent and Copyright

## Year 2020-2021

- 1. Webinar On "Patent: An Introduction, Retrieval and Career Opportunities
- 2. Research Methodology Course (RMC-21) For Ph.D. Research Scholars in Faculty of Science
- 3. Training Program for Non-teaching Staff
- 4. Workshop for the Principals and Conveners of Career Counselling Cell of Colleges

# Year 2016-2017

# Submission of UC, SE and PCR

for

Two Days Workshop on "Inculcation of Activity Based Learning Practices in Science and Mathematics Teachers at Secondary Level and Exploration of Innovative Practices in Teaching – Learning and Evaluation Methods"

30th Nov. to 1st December, 2016

# Submitted by

# Dr. Dinesh Dayaramji Khedkar

Associate Professor P. G. T. D. Botany Shri Shivaji Science College Amravati – 444 602 (Maharashtra)

# Forwarded by

Dr. V. G. Thakare

Principal
Shri Shivaji Science College
Amravati – 444 602 (Maharashtra)

### Submitted to

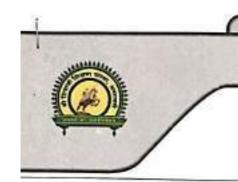
# Head

National Council for Science & Technology Communication,
Government of India, Technology Bhawan,
Department of Science and Technology
New Mehrauli Road
New Delhi – 110016

13th November, 2017

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Accredited by NAAC with "A" grade (very good) with a CGPA of 3.10

# SHRI SHIVAJI SCIENCE COLLEGE

SHRI SHIVAJI SCIENCE

College with Potential for Excellence.

Shivaji Nagar, Morshi Road, Amravati - 444 603, M.S.

Founder ; Dr. Panja

Dr. Panjabrao Alias Bahusaheb Deshmukh Adv. Arun B. Shelke

President : Adv. Principal : Dr. V

Dr. V. G. Thakare

E-mail: shivajiscamt.office@gmail.com Website: www.shivajiscamt.org

Off.: (0721) 2660855; Res. (0721) 2551400, 2553130, Comp. Dept.: (0721) 2551366 Fax: (0721)2665485

Date: 18th Oct., 2016

To,

Dr. Indu B. Puri

Scientist 'E'

National Council for Science and Technology Communication,

Department of Science and Technology,

New Mehrauli Road, New Delhi-110016.

CC to:

Dr. A. V. Sapre

Secretary, RGSTC, Maharashtra

Mantralaya, 7th Floor, Madam Cama Road, Mumbai - 400032

Subject: Organization of Two Days Workshop on "Inculcation of Activity Based Learning Practices in Science and Mathematics Teachers at Secondary Level and Exploration of Innovative Practices in Teaching – Learning and Evaluation Methods".

**Reference**: Approval Letter No CO/I/S46/2015 DATED 3<sup>rd</sup> February, 2016

Sanction Letter No. 411- Grants 2015-16 dated 30th March, 2016

Respected Madam,

As per conditions mentioned in sanction order, we are happy to draw your kind attention towards the proposal granted to this institution. We planned this Two Days Workshop during 30<sup>th</sup> November and 1<sup>st</sup> December, 2016.

As per mention in the proposal this workshop will be in coordination with Homi Bhabha Centre for Science Education, Mumbai; Bajaj Science Centre, Wardha; Hemendra Kothari Foundation, Nashik and Department of Education, Amravati.

Thanking you in anticipation.

**Principal Coordinator** 

Dinesh D. Khedkar Associate Professor in Botany Shri Shivaji Science College, Amravati Yours sincerely

V. G. Thakare

Principal Shri Shivaji Science College

Amravati

**Encl:** 1. Letters under reference

Shri Shivaji Science College, Amra Inward No. 3.5.3. Date: 2.1.14.1.1. To whom Marked.

# CO/I/TR/S46/2015 GOVERNMENT OF INDIA /BHARAT SARKAR DEPARTMENT OF SCIENCE & TECHOLOGY VIGYAN AUR PRODYOGIKI VIBHAG (NCSTC DIVISION)

Technology Bhavan New Mehrauli Road New Delhi-110 016 Dated:30<sup>TH</sup> MARCH,2016

### ORDER

Subject: " Two days workshop on inculcation of activity based learning practices in science and mathematics teachers at secondary level and exploration of innovative practices in teaching - learning and evaluation methods."

Sanction of the President is hereby accorded for an amount of Rs 1,50,000/- (Rupees One lakh Fifty thousand only) to the Principal, Shri Shivaji Science College, Shivaji Nagar, Morshi Road, Amravati-444 603 for organization of above mentioned workshop. The item wise expenditure is as follows:

S.No.	Item	Amount in Rs
1.	Project Assistant @ Rs. 4000/- per headx2	8,000.00
2.	Travel allowance (participants) @ Rs. 400/-x80-	32,000.00
2. 3.	Food @ Rs. 400/- per head for participants + RPs @ Rs. 400x100	40,000.00
4.	Prizes and certificates etc.	10,000.00
5.	Honorarium + TA to RPs	30,000.00
6.	Follow up	20,000.00
7,	Contingency	10,000.00
	TOTAL	1,50,000.00

- Sanction is also accorded to the release of Rs,1,00,000/- (Rupees one lakh only) to the grantee being the initial installment.
- 3. The Drawing and Disbursing Officer, DST shall draw the aforesaid amount of Rs. 1,00,000/- (Rupees one lakh only) and remit the same to the grantee, by Principal, Shri Shivaji Science College, Ehivaji Nagar, Morahi Road Amravati-444 603 means of electronic transfer as per following details:

A/c.holder name & Designation : Principal, Shri Shivaji Science College

TRS.

(411)

Name of the Bank Bank A/c No. IFSC Code Bank of Baroda, Amravati

04680100005323 BARBOAMRAVA

on receipt of bond on non judicial stamp paper.

 It is certified that provisions of GFR 212 (1) relating to UCs for the funds released under the project being the first installment is not applicable.

1

5. The sanction is subject to the terms and conditions specified in the Annexure-I enclosed. It is further subject to the following conditions:

 Three different feedback sheets will be developed for participants to be filled before the programme, at the end of the programme, 3 months after the programme. The feedback will be analyzed and a separate report will be submitted to NCSTC.

ii) Reports with photograph with caption and press clipping will be sent within

week of completion of activity.

(iii) Any publicity material/survey reports, etc. brought out and used during the course of the project will have a mention in bold letters 'Catalyzed and Supported by Rashtriya Vigyan Evam Prodyogiki Sanchar Parishad, DST, New Delhi'. The study material and kits will be finalized in consultation with NCSTC before starting of the course.

 Information about the programme venue & dates will be given to NCSTC and Secretary, Rajiv Gandhi Council for S&T, Maharashtra at least three weeks in

advance.

v) It is mandatory to return one copy of the sanction with the following endorsement. "The project with the above objectives, time frame, sanctioned cost and other condition is acceptable to us. Signature of the authorized person. Seal of organization." This must reach us within 15 days on receipt of sanction otherwise it will be presumed that terms and conditions mentioned in the sanction and annexure are acceptable to PI without reservation.

 A local expert Committee duly constituted in consultation with NCSTC, DST, which will include experts from academic institutions, state S&T councils, school, colleges and S&T based institutions will monitor the progress of the

programme and will give quarterly review report.

 On completion of the programme UC/SE and PCR will be submitted as per NCSTC format given at our website www.dst.gov.in.

viii) The programe will be completed within six months from the receipt of the grant and UC/SE and PCR will be submitted in an year...

 "As per Rule 212(1) of GFR, the accounts of all grantee institutions shall be open to inspection by the sanctioning authority/audit whenever the institute is called upon to so"

 The institute will furnish to the DST, Utilization Certificate and an audited statement of Accounts pertaining to the grant immediately after the end of each financial year.

The institute will maintain separate audited accounts for the project. It is found
expedient to keep a part or whole of the grant in a bank account earning interest.

The interest earned should be reported to the DST. The interest thus earned will be treated as a credit to the institute to be adjusted towards further installment of the grant.

Complete contact details of the participants and resource persons of various programs(s) including, name, address of organization, email id & phone details of thee head organization to which the participant belongs, participant/resource persons' mailing id, phone numbers, mobile numbers will be provided at the end of each programme.

Information about the programme venue, list of participants, resource persons and dates will be given to NCSTC and Secretary/Member Secretary, State Council on S&T at least three weeks sin advance. The participants and resource persons will be finalized in consultation with NCSTC. Before undertaking next workshop feed back and report of the previous programme will be submitted to NCSTC.

The amount of expenditure involved is debitable to Demand no. 86 Department of Science & Technology:

3425	Other Scientific Research (Major Head)
60	Others (Sub-Major Head)
60.200	Assistance to other Scientific Bodies (Minor Head)
08	Grant-in-aid for S&T programmes for
	Socio-Economic Development
08.05	S&T Communication and popularization
	10 전환 1 (17 14 1 17 1 17 17 18 1 1 1 1 1 1 1 1 1 1 1 1

08.05.31 Grants in-Aid for the year 2015 -2016 (Plan) 8. This sanction issues under the powers delegated to Ministries and with the

concurrence of the C/5214/ IFD 2015-16/ 09-02-16, DST vide

9. This sanction has been entered at SI No III in the register or the Grants (2015-16) maintained by the division.

Indu B Par.

To,

The Pay & Accounts Officer Department of Science & Technology New Delhi-110016

Copy to:

1. Cash Section (three copies)

IFD/Budget & Accounts Section.

3. O/o the Principal Director of Audit, III Floor, AGCR Building, I.P. Estate, New

Scientist 'G' & Head/Sanction Folder/Data Entry Folder.

Principal, Shri Shivaji Science College, Shivaji Nagar, Morshi Road, Amravati-444 603 Maharashtra



# Accredited by NAAC with 'A' grade with a CGPA of 3.13 UGC Awarded College with Potential for Excellence

# Shri Shivaji Science College

Shiyaji Nagar, Morshi Road, Amrayati - 444 603 M.S.

◆ Founder : Dr. Panjabrao alias Bhausaheb Deshmukh
 ◆ President : Hon.Sh.Harshwardhan P.Deshmukh

Sh.Harshwardhan P.Deshmukh Web Site: www.shivajiscamt.org

Principal : Dr. V.G. Thakare

(O) 2660855; (Fax) 2665485;(R)2551400

E-mail: Shivajiscamt.office@gmail.com

Date: 03/11/2017

Ref.No. SC/ / /2017

# DARPAN AND PFMS DETAILS OF THE COLLEGE

1. Name of the NGO/VO Registered:

Shri Shivaji Education Societys Shri Shivaji Science College Amravati

2. Approved NGO Darpan Portal Registration id.:

MH/2017/0157917

3. Institution/University/College name:

SHRI SHIVAJI SCIENCE COLLEGE, AMRAVATI

4. PFMS Unique Agency id:

a. Unique Agency Code: DINESHKHEDKAR;

b. Agency Name: Shri Shivaji Education Society's, Shri Shivaji Science

College, Amravati

5. Bank Account details as registered in the PFMS

Name of the Account Holder: Principal, Shri Shivaji Science College, Amravati

Bank Name: Central Bank of India

Account No.: 1828206379

IFSC Code: CBIN0283248

MICR No.:44016104

Place: Amravati

Date: 3rd November, 2017





## Appendix – I

Two Days Workshop on Inculcation of Activity Based Learning Practices in Science and Mathematics Teachers at Secondary Level and Exploration of Innovative Practices in Teaching – Learning and Evaluation Methods

### 30th November and 1st December, 2016

**VENUE:** Shri Shivaji Science College, Amravati

4. Brief outlines of the thematic genesis of the project and the over-all approach followed for its implementation as approved by the NCSTC.

### GENESIS OF THE PROJECT

Science and Maths are the very complex subjects for students to understand. In real sense they are the body of knowledge, a method of inquiry, a way of investigating the things. Science is an attitude towards life: a way of thinking. It should be inculcated in the upcoming student since their childhood. The successful science learning leads to the advancement as a technology which influences the life in toto. The same is applicable to learning of Maths too.

Ex - President of India, His Excellency, Late Dr. APJ Kalam envisaged a fully developed India by 2020. To transform this vision into reality, teachers have a significant role to play. The students with scientific attitude and inquiring minds will certainly bring laurels to the nation. The responsibility to develop interest in learning science / maths needs to be shouldered by the teachers.

In Indian context majority of the students belongs to the rural area. Though we are advancing towards a modern world, still 80 % of the rural population has not been able to match the pace of this evolution. The lag may be directly attributed to the lack of scientific attitude. To transform India in to a developed country, it is necessary to instil scientific attitude among the students. It is possible only when the complex processes of the scientific understanding will be simplified and rendered conversant to common man. Eventually this will develop the open mindedness, the zeal for accurate knowledge and an expectation that the solution of the problem will come through the use of verified knowledge. To achieve this, teachers need to adopt some innovative and interesting practices to attract students to understand science.

In the era of the multimedia, teaching aids play a crucial role in inculcating effective teaching trends in the teachers to attract students towards learning science. To train teachers at school level and equip them with the modern tools and techniques of teaching is the prime objective of this workshop. The main intention of this workshop was to prepare the mind set of the teachers, to inculcate a spirit of scientific inquiry and to address the curiosity of the students.

This workshop was planned to serve the purpose to uplift and bring the students closer to science. The guanine expectation from the workshop was to foster teachers' aptitude towards those qualities characterizing a person's way of behaviour which serve to indicate how well he can learn to meet & solve certain specified set of problems.

# OVER-ALL APPROACH FOLLOWED FOR IMPLEMENTATION OF THE PROJECT`

Announcement of the Programme	Selection of Participants	Collection of articles for publication	Workshop Schedule	Pre and Post workshop Feedback from
Brochure containing detailed information of the workshop was circulated to all the schools working in the Amravati division.  Applications were invited from teachers with their credential to shortlist.	shortlisted and Selected participants were invited for workshop	Selected articles were collected, respective permissions taken and synopsis invited from the resource persons and the participants too.  Compilation of articles was published as "Activity Based Science and Maths - Teaching Guide"	Day to day plan of workshop was prepared and included in the study material.	Feedback forms were designed and collected to conclude the outcomes of the workshop

Two Days Workshop on "Inculcation of Activity Based Learning Practices in Science and Mathematics Teachers at Secondary Level and Exploration of Innovative Practices in Teaching – Learning and Evaluation Methods"

## 30th November and 1st December, 2016

Catalyzed and Supported by

National Council for Science and Technology Communication

Department of Science and Technology, New Delhi



In Collaboration with

Homi Bhabha Centre for Science Education, Mumbai; Asian Association for Biology Education (India Chapter); Techshiksha, Navi Mumbai; Bajaj Science Education Centre, Wardha

In Association with

Dr. Panjabrao Deshmukh Memorial Science Centre, Amravati and Dr. Panjabrao Deshmukh Human Resource Development and Training Centre, Amravati

Day	Morning session	Afternoon session			Eveni	ng session
	10.30 to 11.30	11.30 12.30	12.30 - 2.00	2.00 - 3.00	3.00 - 4.00	4.30 - 5.30
Wednesday 30 <sup>th</sup> Nov. 2016	INAUGURAL PROGRAMME Chairman Adv. Arun Shelke, President, Shri Shivaji Education Society Chief Guest Dr. Arun Sapre, Secretary Rajiv Gandhi Science and Tech. Commission, Maharashtra Guest of Honour S. M. Yadgire, Secretary M. S. S. & HS Board, Amravati	Key Note Address Dr. Arun Supre Secretary Rajiv Gandhi Science and Tech. Commission, Maharashtra	Biology Learning - A Fun Dr. Rutwik Thengodkar and Karun Hambir Homi Bhabha Centre for Science Education, Mumbai, Mumbai	L U N C H B	Rising Mathematic Understanding level of School Students Dr. Veena Deshmukh Shreemati Nathibai Damodar Thackersey Women's University (SNDT), Mumbai, India	Activity Based Learning for Physics and Electronics  Mr. Amit Modi  TechShiksha Science Hub, Navi Mumbai  Dr. Pankaj Nagpure  Shri Shivaji Science College, Amravati
Thursday	10.30 - 11.30	11.30 - 12.30	12.30 - 2.00	E		
1 <sup>st</sup> Dec. 2016	Bridging Gaps Classical vs Modern Teaching Methods Mr. Sudhir Mahajan Principal Podar International School, Amravati	Chemistry – Through Activities <i>Dr. Sunita Khadse</i> Bajaj Science Centre, Wardha	Friendly Physics  Tushar Tamhane  Award winner teacher  Commonwealth  Association  of S&T  and Maths Educators,  London	A K	Presentations by participants <b>Dr. Dinesh Khedkar</b> Shri Shivaji Science College, Amravati	VALEDICTORY FUNCTION  Chief Guest A. K. Chitaliya Head Master  Manibai Gujrati High School Amravati

(Registration and Refreshment will be open at - 9.30 am on 30th November, 2016; Lunch 2.00 - 3.00 pm; Tea Times: 12.00 noon and 4.00pm)

Two Days Workshop on "Inculcation of Activity Based Learning Practices in Science and Mathematics Teachers at Secondary Level and Exploration of Innovative Practices in Teaching – Learning and Evaluation Methods"

# 30th November and 1st December, 2016

Catalyzed and Supported by

National Council for Science and Technology Communication

Department of Science and Technology, New Delhi



In Collaboration with

Homi Bhabha Centre for Science Education, Mumbai; Asian Association for Biology Education (India Chapter); Techshiksha, Navi Mumbai; Bajaj Science Education Centre, Wardha

In Association with

Dr. Panjabrao Deshmukh Memorial Science Centre, Amravati and Dr. Panjabrao Deshmukh Human Resource Development and Training Centre, Amravati FEEDBACK

S.N.	Name of Resource Person	Presentation	Information	Discussion	Motivation	Total	Suggestions to the resource person if any
	Max Points	05	05	05	05	20	
1.	Dr. A. S. Sapre						
2.	Dr. Veena Deshmukh						
3.	Dr. Rutwik Thengodekar						
4.	Mr. Karun Hambir						
5.	Mr. Amit Modi						
6.	Mr. Sudhir Mahajan						
7.	Dr. Sunita Khadse						
8.	Mr. Tushar Tamhane						
9.	Dr. Dinesh Khedkar						
10.	Dr. Pankaj Nagpure						

Note: Evaluate all resource persons on five point scale.

Signature

Two Days Workshop on "Inculcation of Activity Based Learning Practices in Science and Mathematics Teachers at Secondary Level and Exploration of Innovative Practices in Teaching – Learning and Evaluation Methods"

## 30th November and 1st December, 2016

Catalyzed and Supported by

National Council for Science and Technology Communication

Department of Science and Technology, New Delhi



In Collaboration with

Homi Bhabha Centre for Science Education, Mumbai; Asian Association for Biology Education (India Chapter); Techshiksha, Navi Mumbai; Bajaj Science Education Centre, Wardha

In Association with

Dr. Panjabrao Deshmukh Memorial Science Centre, Amravati and Dr. Panjabrao Deshmukh Human Resource Development and Training Centre, Amravati

# POST PROGRAMME EVALUATION

S.N.	Date and day	Knowledge	Resource persons (Overall)	Skills	Boarding	Hospitality	Total
	Max Points	05	05	05	05	05	25
1.	30 <sup>th</sup> November 2016						
2.	1st December 2016						

Benefits of the Workshop	Shortcomings of the Workshop	Suggestions to improve further

Signature

Two Days Workshop on "Inculcation of Activity Based Learning Practices in Science and Mathematics Teachers at Secondary Level and Exploration of Innovative Practices in Teaching – Learning and Evaluation Methods"



In Collaboration with

Homi Bhabha Centre for Science Education, Mumbai

and

Asian Association for Biology Education

Catalyzed and Supported by

National Council for Science and Technology Communication

Department of Science and Technology, New Delhi

8th and 9th August, 2015



# **Organizing Committees**

Reception: Dr. V. G. Thakare Dr. Prakash Deotare Dr. V. B. Bhatkar	Certificates, Acknowledgements, Flex: Dr. Prashant Mandlik Mr. Nitin Atre	Transportation and Accommodation: Dr. Ganesh Hedawoo Dr. Rekha Maggirwar
Audio Visual Arrangements Mr. Nitin Atre Mr. Anand Oke	Inaugural & Valedictory Dr. Rekha Maggirwar Dr. R. V. Khokale	Catering Dr. S. K. Rithe Dr. P. R. Padole
	Ice Breaking, Tapping skills and Feedback Dr. Pankaj Nagpure Dr. Swapnil Arsad	

Two Days Workshop on "Inculcation of Activity Based Learning Practices in Science and Mathematics
Teachers at Secondary Level and Exploration of Innovative Practices in Teaching - Learning and Evaluation Methods"



Date: 8th August, 2015

In Collaboration with

Homi Bhabha Centre for Science Education, Mumbai and

Asian Association for Biology Education

Catalyzed and Supported by National Council for Science and Technology Communication Department of Science and Technology, New Delhi

# 8th and 9th August, 2015

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1.	Name :	E:			
2.	Qualification:				_
3.	Date of Birth:				
4.	Any Special Qua	dification:			
5.	Subject you are	teaching:			_
6.	Teaching Metho	ds used:			_
7.	Student oriented	activities conducted:			-
					-
					_
8.	Address :	Institutional		Home	
	Contact Nos.:	Mobile	Landline		
9.	Innovative Pract	tices adopted at school level:			-
					_
					_
10.	. Expectations fro	m the workshop:			_
					_
					_

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Signature

# 9. Brief details of the Project

List of Materials enclosed –

- 1. Report of Workshop with Photographs
- 2. Information Brochure
- 3. Invitation
- 4. Booklet Published
- 5. Press Media Coverage

# Report on Two Days Workshop for High School Teachers - D. D. Khedkar

The Two Days Workshop on "Inculcation of Activity Based Learning Practices in Science and Mathematics Teachers at Secondary Level and Exploration of Innovative Practices in Teaching – Learning and Evaluation Methods" was organized by Shri Shivaji Science College, Amravati during 30th Nov. to 1st Dec. 2016. This workshop was catalyzed by National Council for Science and Technology Communication, Department of Science and Technology, New Delhi. The workshop was planned in association with Dr. Panjabrao Deshmukh Memorial Science Centre, Amravati and Dr. Panjabrao Deshmukh Human Resource Development and Training Centre, Amravati. The collaborators for this workshop were Homi Bhabha Centre for Science Education, Mumbai; Asian Association for Biology Education (India Chapter); Techshiksha, Navi Mumbai and Bajaj Science Education Centre, Wardha.

An inaugural ceremony held under the chairmanship of Hon'ble Adv. Arunbhau Shelke, President, Shri Shivaji Education Society, Amravati. Inaugural declaration along with the keynote address was delivered by of Dr. Arun Sapre, Member Secretary, Rajiv Gandhi Science and Technology Commission (RGSTC), Govt. of Maharashtra. Mr. S. M. Yadgire, Secretary M. S. S. & HS Board, Amravati; Dr. Nirankush Khubalkar, President, Asian Association for Biology Education (India Chapter), Dr. S. N. Deshmukh, Director, Dr. Panjabrao Deshmukh Human Resource Development and Training Centre, Amravati also graced the function.

The session on the theme "Biology Learning – A Fun" was conducted by faculties from Homi Bhabha Centre for Science Education, Mumbai, Dr. Rutwik Thengodkar and Mr. Karun Hambir.

Second session entitled "Rising Mathematic Understanding level of School Students" was dealt by Prof. Veena Deshmukh, Shreemati Nathibai Damodar Thackersey Women's University (SNDT), Mumbai,

India. Activity Based Learning for Physics and Electronics was promoted by Mr. Amit Modi, Director, TechShiksha Science Hub, Navi Mumbai.

On the second day of the workshop the invited talk on Bridging Gaps Classical vs Modern Teaching Methods by Mr. Manohar Mali, Vice Principal, Podar International School, Amravati was organized. This was followed by interactive session by Mrs. Sunita Khadse, Head, Deptt. of Chemistry, Bajaj Science Centre, Wardha on the topic "Chemistry – Through Activities". Next interaction was organized between participants and Commonwealth Best Teacher Award Winner Dr. Tushar Tamhane. He demonstrated fantastic way to deliver complex concept of Physics in the classroom through inquiry based approach.

Post lunch sessions were dealing with presentations by participants and a talk by Dr. Dinesh Khedkar, Shri Shivaji Science College, Amravati on Methods of Science Teaching at High School Level. The workshop was concluded in the presence of Mr. A. K. Chitaliya, Head Master, Manibai Gujrati High School, Amravati as a chief guest and Dr. V. G. Thakare as a president of the valedictory function. This workshop was coordinated by Dr. D. D. Khedkar in collaboration of different national agencies.



**Dignitaries on the Dias** 



Honour of Dr. A. V. Sapre, Chief Guest



Honour of Mr. S. M. Yadgire, Guest of Honour Release of Teaching Guide



Keynote Address by Dr. A. V. Sapre



Presidential Address by Hon'ble Adv. Arun Bhau Shelke





Dr. Rutwik Thengodkar, Homi Bhabha Centre for Science Education, Mumbai delivering presentation and honoured by Adv. M. K. Nana Deshmukh, Vice President, Shri Shivaji Education Society, Amravati





Mr. Karun Hambir, Homi Bhabha Centre for Science Education, Mumbai delivering presentation and honoured by Adv. M. K. Nana Deshmukh, Vice President, Shri Shivaji Education Society, Amravati





Prof. Veena Deshmukh, Shreemati Nathibai Damodar Thackersey Women's University (SNDT), Mumbai delivered talk and acknowledged by Dr. D. D. Khedkar, Workshop Coordinator





Mr. Manohar Mali, Vice Principal, Podar International School, Amravati interacted with participant teachers and Prof. V. G. Bhamburkar, Secretary, Shri Shivaji Education Society, Amravati presented him with memento



Mr. Amit Modi, Director, TechShiksha Science Hub Navi Mumbai



Mrs. Sunita Khadse, Head, Deptt. of Chemistry, Bajaj Science Centre, Wardha





Dr. Tushar Tamhane conducted session at Physics laboratory on Sounds: Inquiry based teaching

# **Participant Teachers' Presentations**



Participant teacher Mrs. Archana Deshpande,



Mrs. Dipali Bhatnagar



Mrs. Papalkar, P. P.



Inquiry Based Learning fun enjoyment

# **Feedback from Participants**



Dr. D. D. Khedkar Summarizing Workshop



Mr. Jitendra Gawali



Mrs. Mankar S M.



Mr. NAGARE PP

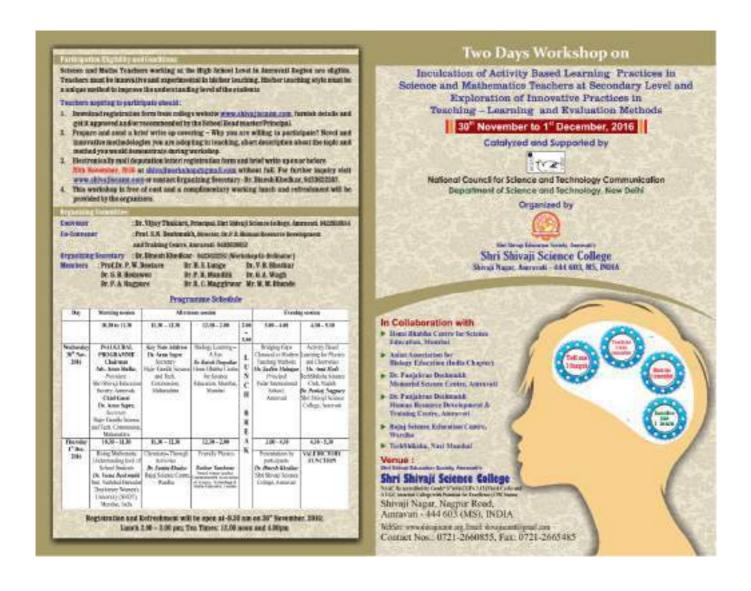


Mr. Chitaliya, Head Master Manibai Gujrati H.S. Amravati, Chief Guest for Valedictory



Dr. V. G. Thakare, Principal delivering presidential address during Valedictory

# INFORMATION BROCHURE



# re cardially includ for Two-lay Workshop 10° Howenter & 1° December, 2015

### The National Orangel for Science and Technology 5

NUMBE in mandated to communicate Science and Technology to essuage, ethnology scientific and technological temper and conditions and nechnological with efforce throughout the roomer. The gings an asso of NCSUS alons at habiling capacity for informed decision making in the community and promote orientific thinking. It is devoted towards societal spiffs through the dissembation of scientific incodedge in an informed manner and builds programmes with the help of different media which perceive down to every strainer of the sectory. The NOTY Jucases as extracts. activities, training in Science and Technology communication, development, production & discontinuition of S & T software, increasive programmen, and field based Sci-Com projects. remark is SAT communication, international oc-operation, noticating stations and trachers, understand avarcame and programmes with a special compount contrainely for western.

### as Stroop Science Sellege, Access Iz.

It to case of the best institutions verying for the modely under that they all followides limitely. Agricult. It is well known for the planearing and treatiles statem-oriented activities. The cumilians and superiority of this institution is calificated and embowed by commanding agreeins Ens SEET and DGC by conducting "A" Grade in Third Sprin of Accordances and by conforming the states of the Vellege with Potential for Excellence . It adways taken includes to plan and organize activities unique brantary to enhance the quality of education

### Dr. Danjahran Korksmith Monortol Science Course, Americand

To prepagate ideas to necture research applicate in young minds the SECCE in Makarashtra is setting up licience and Innovation Science Control all over the state. Skri Shivaji Education ciety, under the ungle of filet Stirvel Science College, American line taken a lend and is nothing up with the its Panjahrao Beshmuith Mestorial Science Centre at Austravail that aims at bringing ore and children's log ether to materialitie tenevalive films.

### Dr. Panjale at Beildoukk Homan Emmarce Development and Training Contro, Americali

This is no hotoposited make weeking towards the aptenting of teachers from this region for impuring qualitative education. This centre alone at appending the centre of advention, by equipping the teachers with better tune-low and streeting them towards application of their abilities. It scripts out the best educator from good learners by continuing fundrels of qualities that allow them to educate their pupils in the rest sense. The centre curtaries the uniqueness of every tracker and altimately readers a teacher a unique blend of all those qualities that the medica society expects in every good toucher.

### Rossi Rhubba Contro for Science School and (NECH);

It is a National Centre affiliated to the Tuta Institute of Fundamental Resourch (TIFE), Munutual. The broad spectrum of grain of this Controllectude promoting agents and conclusives in estates and mathematics of accellectrum primary acts of to and regraduate level, and concerninging the growth of estendille literacy in the country. It is the pressive mentation in the country that pressive receases and development in release, technology and maximum ties observed. It is india's mobile centre for Olympiad programmes in muthematics, physics, chemistry, biology, astronomy and Junior science. It carries not a wide variety of inter-related activities, which exald be viewed tender three bread entegeries: Research and Development. Teacher Education and Delence Papalaris after and Stympiads. AUS and other Students' Statute Programmen.

### The Asian Association for Biology Francistics (India Chapter):

ARE to a suspend) making of sentenced organization dedicated to the advancement of histogy education and the throughnum of information related to belong, It to a pressure association working across Asian continent, emphasizing tenorolless in Peaching Learning and Evaluation grantices of orbital level. In Italia, activities of ARE use conducted by its holls Chapter, which provides a great plaiform for an Indian Science Teacher to interact and chara navel titeas to improve the teaching learning and evaluation methods and also to enhance the level understanding of the students.

### Raja; Solomer Education Contra, Warding

Reffers the perfect knowling ground for industry of all fields. This control as the genteriators of a place confident of aftracting only the most intellectually-inclined scoke. It is also a centre that provides apportunities to the students of this region to learn in specially designed conditions and

### Techthipphy, Vani Membah

It is an ITT familiary Alarme Initiative working with young innerestance counter on atmosphere for creative learning and innovation throughout ladin. It believes that, education should be more hands on and students should get a platform to discuss, create and helid. That is why, it has created STEAN Delears. Technology, Engineering, Art. Mathematics (Inh.

Ex - Problems of Solits, His Excellency, Late Sr. A7) Kalam covinaged is fully developed holis by 3630. To transform this vision into reality, teachers have a significant rule to pine. The students with solontific utilitade and laquiring educk will containly being laseress to the matter. The responsibility to develop fatorest in learning science / midle needs to be abouidered by the

In Redice context majority of the students belongs to the most uses. Though we are achieved towards a modern world, still RI Stafttle rural population has not been able to match the poor of this evolution. The log may be directly attributed to the book of scientific attribute. To transform Stall a to be a developed country, it is necessary to healf select the attitude among the stalects. It is possible only when the complex processes of the accondite understanding will be simplified and rendered enversage to common man. Eventually this will develop the open relatedness, the real for accurate knowledge and an experiation that the solution of the problem will come through the are of restitled knowledge. To achieve this, trackers ared to adopt some larger and lateresting grantions to allow stade on the understood actions.

In the era of the emitteedite, texching side play a cracial role in incutenting offsetten teaching trends in the teachers to attract readouts towards learning eclesies. To train teachers at achied level and equip their with the medium tools and includence of tooking is the prime objective of this workshop. The male inscribes of this workshop is to properly the relations of the teachers, to

localizate a spirit of orientific legality and is address the carriedity of the stadents.
This workshop will definitely serve the purpose to agiff and bring the stadents closer to accesse. If will factor to achieve a giftingle towards those qualifies characteristing a person's way of behaviour which serve is in figure how well he can instruct a most \$ 1000 e certain specified not of problems.

(a) leminate a sense of activity based tracking, learning and evidentive (in Explain various skills and proclines insoftent are using so their way, it be arch for activity based tracking practices and stadent oriented netrition purposity going on in different ectools. (6) Separate a post of importative active and skilled achoel transfers; (c) identification of resource persons from various traditions to contribute transfer the creation of tensoralize bleak for future. (f) Searing up activities in schools to make loanning of Science and Matha a fun-filled exercise.

# INVITATION FOR INAUGURAL AND VALEDICTORY FUNCTIONS





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# Two Days Workshop on

Inculcation of Activity Based Learning Practices in Science and Mathematics Teachers at Secondary Level and Exploration of Innovative Practices in Teaching – Learning and Evaluation Methods

# 30th November to 1st December, 2016

Catalyzed and Supported by



National Council for Science and Technology Communication Department of Science and Technology, New Delhi

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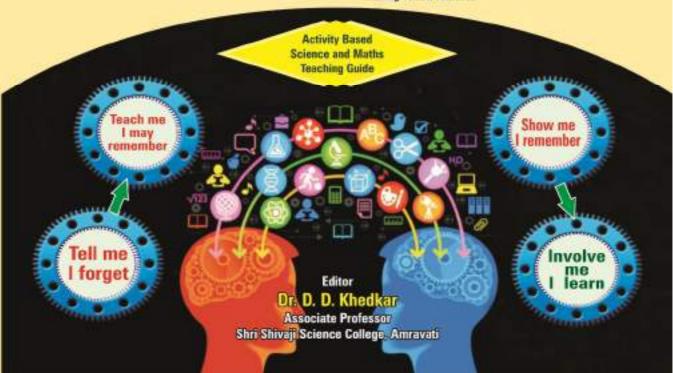
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- . Dr. Panjabrao Deshmukh Memorial Science Centre, Amravati
- The Asian Association for Biology Education (India Chapter)
- · Bajaj Science Education Centre, Wardha
- Dr. Panjabrao Deshmukh Human Resource Development & Training Centre, Amravati



# DESIGN OF THE MEMENTOES PRESENTED TO THE GUESTS









# PRESS PUBLICITY

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# श्री शिवाजी विज्ञान महाविद्यालयाचे आयोजन

# क्षकांसाठी अध्यापन पछ्ततीवर कार्य

क्षणायली। मध्यनिक सारगर writer Trace service access गध्दरीया साराज्यने वाग करीत अस्तान्त अधित मुख्यमा वाह होताना मध्य दिशात नगल्याची ओराव वर्गातीयारे जाते. त्यापूर्वे जाता विश्वारी अपन्य अध्यक्त कटरीत सुवामा काल विदार्थात शर्मात आणि जागाच्य विश्वचत विशेष est frein are artin an. मणुरव बगासीका नी विकास विशान वर्शायधानमाने गुणवार गार्थना सम्बद्धा Steward on ledger तारायन वेले अहे.

of Dearly Drawn wises जनता ग्रीकार ntimen बंद अली की शिवारी जिल्ल mislantin spring spot storage and selfs dialogs Drace o offeren des uses व्यक्तीमाने सामन्त्रिक शासानगार ftere ceft efter free निवरियाच निवचलाई प्रतिप्ता अध्यान पार्टिक जापरित सेन रिसाराच्य वर्धात्रकेचे अञ्चासन 30 जीवींबर व १ शिवींबर प्रस्तान सरप्यात ताले आहे.

विकासक राष्ट्रीय विकास संवर्धिक संबंध्य परिपरेच्या अनुसाराष्ट्र जानसम्बद्धिः स्वासीयसः होतीः पाना विक्रम जिल्ला केंद्र, मुख्ये, एजिएन असंस्टिशन भी बांगनांनी

भवाग विक्रम केंद्र, विकास गण्ड, कुली गांधाः स्थलपात्त सुसूह वासमी काल REASTRE.

ग्रेम्पन पेत वारे कार्यकारेचे उद्यक्ति भी कियारी जिल्हा तस्त्र, mer sademer være ammedik amme aft save सरकारक विद्यम व क्रीरोनिक जेंडके पांच्य अध्वयतित गरित मसराष्ट्र राज्याच्य राजीत राजी विकास व लावास आयोगाने सचित श्री जनग सहै यांच्यात्राने व एस.एम.बादनिरं, समित्र सरशाद् यात्र कृतीसचे अस्त्रेतित बस्त्रवात

अववार्ता HER. विभाव अववर्गा योगर वर्षाध्यक्तील 36 लोक्स देशी सकडी ৭০ বারর বা

शासानगण विशान अणि गाँगत परण्य आहे. ताल सर्वतातंत्रा fenn finefenrer finentend erunn a feiter fich gurft u

qu c'er fitteffin nechnite. crefts cardina from martin लग वर्षप्रदेशको प्रकारक व grium dans, moses. यो समीत मीता अध्यक्तिया रिष्याचे अध्यापक क्रमें करात येति. राज्य नाम्यांच्य आणि उच्य आसेनी अशेत, होगी माना विद्यान

देशांकर र प्रकार हती। 'पंत्रवीतीर क्षेत्रर असेत, प्रस्तव सुपीर वस्तवन चल्लोक्सिकी ३०० यांचे 'मार्ग्योक व जल्यातुर्वेशक अलागन पाउती पाता माध्यम वेमार आहेत. तन्त्राचे अभित गांची मेलिकास विषयचा तकरून धार मर्गधर्मन स्त्रभार असून, कार्यक्राडेश्य हुतः वा विकरीत्या प्रयम् ताना हो ग्रेमाता है समुख 'गरित रिक्यातील संस्तरण कुलीसारि प्रशासका विका प्रकृति स विषयक प्रथम शामार स्टेन. र्श.सुनिता ध्वरूने व तुप्पर ताबते अनुप्रते सरापनश्रामा असी Hittaures Structus einemes einer nickfri (kanelydin

mirre Steelen unter बीचलाम' वर विषयवर पुरिचार कारण्याः वेत उल्ले की, त्यांच्य विशेष त्रवासको लेखानास स्वक्रिती नोडकी अर्जनीका पालाचे नार्ज्यका अध्यक्तराम विकास अस्ति गरिका लिए व जिल्लीमाचा जिल्लामा जा शर्पवरेत सम्पत्ती ग्रेम्बल जनारण में विकास विकास वर्शकान्य, वारावर्षिये प्राथार्षे of feet and soft but unit, or शर्पवरेत सरधार रापासरी

> www.atrivejacuers.org # 47 Seed form wellerns, awarafisa or Barrensons अधिका सहन नगा।

Bwerf

# **AMRAVATI** District

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NACOTH & Monday # December 15 # 2000

### RIEFS Mahanayak Sanghatana's agitation today

SHOW THE PROPERTY OF THE PARTY Investment offerna agita-liena capacitod for Malarament hanglasis na verside Colline reaso in demical Terradito of Ular hold no disprime per-pir, noti be handat al i assess Describes in The Wastering gitts then fass been organ-hold as also foliale ad § a of Dedocaba Nationaga i insured Canderool as of becomes fundamentally income fundamentally income of Malanastons transfer and a fundamental income operation of the come of the fundamental income o

### Sutar Community meet tomorrow

s SPECIAL marking of lowerest 2000-better berney invental Zillicham benat bacconory Semili har nees regenierd et Rend sei Georgies, Indian Partre dans George, Jugiandy og Hond, Weisbergen Bouleur, mad et La mort en filment ber Zil. Pleascoders in Marine, mat har se primed in Marin met manifey off suito place at the merchan Microbi Digistral has sometied to the service.

# Teachers must adopt changes in education processes: Arun Sapre



Adv Acus Shalto and other purels misseing the book starting the programme.

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THO MAY being weekships on withormous minimization and Congregation of the Congression state of the Congression of the Congresi

medical, recentle.

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Remarks: Overlegisters) and Tasking Canare vertrepresent in the right games on the occasion. In the right games on the occasion, In the right games on the occasion. In the immegazial agencies, IN Arms tapes must their it is seen task the transdom to acknowledge procosed by accepting thanges for our tasking place and the national level. Methodogy faces at the national level. Methodogy in the last of the categories are the national level. Methodogy in the last participated and the national level of the last of the last

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som handly member the exte-sion. Or feetha Meggives con-ducted the posteodings of the exequate programm vide De Descriptions. Varioty of Co-nciliants, proposed a total of Teach.

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# Poonawalla Foundation gives scholarships to 249 students

mentionious, belonging to different atreams. were given somalarships by Programming Foundation that kept its practice of two years.

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Di Wasache Gudi, Ver-Camendo IronaPune Libra i in-une parmer an the dibid paces okile Lig From anala, Providen of Lik Prostavalla Fromdus Di Divide Selvekir Ashrenger Openia Salonkir-Ashrenger, Signiya lik plant, both consert-ter, Trembeth and Varshir Chandelser, Amunit-Abrillia Protect Grandinate, were pound-conly greens for the pro-

guages.

Teledorships woold stributed strong 100 needly but marked one stratums from stratus of Naving Agriculture, Engineering Engineering Cooking the programms, Ferna

Postarvijia said tiad technical odaratica is animajaruju bian-dalini hir sprovedje prava 17-ti can activo sacceni ir dipi animaroni therapindami in dipi namoroni therapindami ham best na tia tippettarpat offin Scandaroni famili said transantila.

Dr Variation Gate interacted with their en-eyl wat that elso cause provides apportunity in terral connection and sens if dep and absorbs make up there optime

Departed for beyond of the The particular for the credit of Life. Promoterials I be consisted in the providing being the modely and cream contains to the control of the

rel the proceedings of the pro-gorner-work respillant fiels

germer-vere Musellan Vering-proposed or vert of thesion. Sentialar Diedzinich, Princ Geldarin, Neilla Men, Neitha Kalodi, Neidel Herste, Edwar Kalodi, Pervall Berge of Anal Visiona Landantiers readquirelin the secretal organisation of the programme.

# कृतियुक्त अध्यापनपद्धतीवर कार्यशाळा

# डॉ. पंजाबराव देशमुख स्मृती विज्ञानकेंद्राचे आयोजन

अमरावती, ता. ६ : श्री शिवाजी शिक्षण संस्था हारा प्रस्तावित हाँ. पंजाबराव देशमुख स्मृती विज्ञानकेंद्र आणि औ शिवाजी शिक्षण संस्थेअंतर्गत कार्यस्त मानवसंसाधन विकास व प्रशिक्षण केंद्राच्या सहयोगाने नाध्यमिक शाद्यास्तरावर विज्ञान आणि गणित विषय शिकविणाऱ्या शिक्षकांसाठी कृतिपुत्रत अध्यापनपद्धतीयर आधारित दोन दिवसांच्या कार्यशाळेचे आयोजन करण्यात आले होते.

कार्यशाळेचे उदघाटन ३० ऑड. अरुण शेळके चांच्या अध्यक्षतेत: तर राबीय गांधी विज्ञान व तंत्रज्ञान आयोगाचे सचिव हाँ. जरुण सप्रे यांच्या हरते पार पडले. या प्रसंगी महाराष्ट्र राज्य शिक्षण मंहळाचे सचिव एस. एम. यादगिरे व प्रा. एस. एन. देशमृख व्यासपीठावर उपरिधत होते.

हाँ, अरण सप्ने यांनी अखिल भारतीय स्वरावर होत असलेल्या शैक्षणिक क्षेत्रातील बदर्शना आपल्या शिक्षकानी स्तीकारान स्वतःच्या अध्यापनपद्धतीत आवश्यक ते बदर घटविणे अपरिदार्थ



अपरावती : प्रस्तिकेचे प्रकाशन करताना मान्यवर,

असल्याचे प्रतिपादन केले. तर विशेष सप्ने यांच्या बीजभाषणाने जाली. मार्गदर्शक म्हणून उपस्थित एस. एम. यादगिरे यांनी जागानी काळात अनुदानित नोटडेबरता शिवाजी शिक्षण संस्थाच्यक्ष आद्यांच्या शिक्षजांत्रमोरील आव्यानांवर करूण हंबीर यांनी गेमतीशीर जीवशास्त्र प्रवाश टाकरण, या कार्यशाळेनिमित्त या विषयावर, पोदार इंटरनॅशनर शाळेचे विज्ञान व गणित अध्यापनपद्धत मार्गदर्शिका या डॉ. दिनेश खेडकर संपादित पुरितकेचे प्रकाशन करण्यात मार्गदर्शन केले. टेक शिक्षा विज्ञान आले. भी शियाजी शिक्षण संस्था समुदाचे अमित मोदी यांनी त्यांच्या अनरावतीचे कार्यकारिणी सदस्य ऑड. संस्थेमार्फत सुरू असलेल्या कार्याची नानासाठेख देशमुखः प्रा. अरविंद मंगळे तथा सचिव प्रा. विनय भोबूरकर या सञात हाँ. वीणा देशमुख गणित विषय प्रसंगो उपस्थित होते. संवालन हाँ, रेखा व्यतीवरे शिकविण्याच्या विविध पद्धतींवर मामीरवार यांनी केले. आभार कार्यशाळा प्रकाश टाकरण, हाँ, सुनीता खड़से यांनी समन्वयक डॉ. दिनेश खेडकर योनी मानले. कार्यशाद्येख सुरुवात हॉ. अरण

त्यानंतर होगी भाभा विज्ञानकेंद्र मंबईचे हॉ. अस्तिक देणगोहकर व उपप्राचार्य मनोहर माळी यांनी प्रशंपरिक व अत्याधनिक अध्यापनपदतीवर माहितो दिली, दुसऱ्या दिवसाच्या प्रथम रसावनशास्त्रतील विषय रासायनिक क्रिया व भेसळ ओळखण्यावर मार्गदर्शन केले.

# गळा/महाविद्यालये

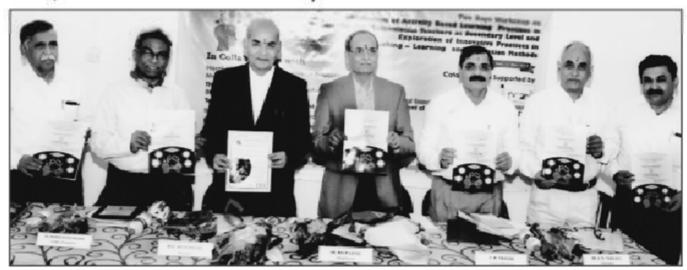


# शिवाजी विज्ञान महाविद्यालय

अमरावती : श्री शियाजी शिक्षण संस्थेद्वारे संचालित श्री शियाजी विज्ञान महाविद्यालयात विज्ञान व गणित विषय शिकविणाऱ्या शिक्षकांसाठी 'कतीयक्त अध्यापन पद्धती' या विषयावर आधारित दोन दिवसीय कार्यशाळेचे आयोजन सोमवार, मंगळवारी करण्यात आले होते. उदघाटन श्री शिवाजी शिक्षण संस्थेचे अध्यक्ष अरुण शेळके यांच्या हस्ते करण्यात आले. यावेळी एस.एम.यादगिरे, अरूण सप्रे, नानासाहेब देशमुख, अरविंद मंगळे, विनय भांब्ररकर आर्दीची उपस्थिती होती. संचालन रेखा मगीरवार तर आभार प्रदर्शन कार्यशाळा समन्ययक दिनेश कार्यशाळा समन्ययक दिनेश खेडकर यांनी केले.



# विज्ञान व गणित शिक्षकांसाठी कार्यशाळा संपन्न



अमरावती (प्रतिनिधी) : श्री शिवाजी शिक्षण संस्था द्वारा प्रस्तावित डॉ. पंजाबराव देशमुख स्मृती विज्ञान केंद्र आणि श्री शिवाजी शिक्षण संस्थेअंतर्गत कार्यरत मानव संसाधन विकास व प्रशिक्षण केंद्र यांच्या सहयोगाने माध्यमिक शाळास्तरावर विज्ञान आणि गणित विषय शिकविणाऱ्या शिक्षकांसाठी कृतियुक्त अध्यापन पद्धतीवर आधारीत दोन दिवसांच्या कार्यशाळेचे आयोजन करण्यात आले होते.

कार्यशाळेचे उद्घाटन ॲड. अरुण शेळके, यांच्या अध्यक्षतेत, डॉ. अरुण सप्रे यांचे हस्ते पार पडले. याप्रसंगी एसएम यादिगरे, सचिव, महाराष्ट्र राज्य माध्यमिक आणि उच्च माध्यमिक शिक्षण मंडळ, विभाग व डॉ. पंजाबराव देशमुख मानव संसाधन विकास व प्रशिक्षश्रण केंद्र संचालक प्रा. एस.एन.देशमुख व्यासपीठावर उपस्थित होते. या कार्यशाळेनिमित्त विज्ञान व गणित अध्यापन पद्धत मार्गदर्शिका या डॉ. दिनेश खेडकर संपादित पुस्तिकेचे विमोचन करण्यात आले. श्री

शिवाजी शिक्षण संस्था, अमरावती चे कार्यकारीणी सदस्य ॲड. नानासाहेब देशमुख, प्रा. अरविंद मंगळे तसेच संस्थेचे सचिव प्रा. विनय भांबुरकर याप्रसंगी उपस्थित होते. उद्घाटन समारंभाचे संचालन डॉ. रेखा माग्गीरवार यांनी तर आभार प्रदर्शन कार्यशाळा समन्वयक डॉ. दिनेश यांनी केले.

डॉ. वीणाताई देशम्ख गणित विषयातील संकल्पना कृतींद्वारे शिकविण्याच्या पद्धती या विषयावर प्रकाश टाकत शिक्षकांना विद्यार्थ्यांच्या भूमिकेत नेत गणितामधील अनेक संकल्पना कशा विद्यार्थ्यांना कठीण जातात आणि कृतीशील शिक्षक त्याच संकल्पना टप्प्यांमध्यें सांगत विद्यार्थ्यांना विविध उपक्रमांद्वारे कशा सोप्या करुन सांगु शकतो यावर मार्गदर्शन केले. बजाज विज्ञान केंद्र, वर्धा येथील डॉ. सुनिता खडसे यांनी रसायनशास्त्रातील विषय रासायनिक क्रीया व भेसळ ओळखण्याच्या विविध उपाययोजना यावर विद्यार्थ्यांना खिळवून ठेवेल अशा प्रकारे शिकवून दाखविला. कॉमनवेल्थ पुरस्कार प्राप्त

तुषार ताम्हणे यांनी भौतिकास्त्र प्रकाश या एकाच संकल्पनेवर अनेक प्रश्नांच्या माध्यमातून विद्यार्थ्यांद्वारा निर्मित विविध कल्पनांमधून मजेदार पद्धतीने संपूर्ण वर्गाला अध्यापन प्रक्रीयेत समाविष्ट करून शिकविण्याची कला सांगितली. शेवटच्या सत्रात डॉ. खेडकर यांनी कथाकथन, नाटक तसेच महानाट्य या विशेष शैलीमधून अध्यासक्रमातील मोठे घडे आणि महत्वपूर्ण संकल्पना शिकविण्याचे तंत्र सांगून शिक्षकांनी याचा वापर केल्यास वर्गातील संपूर्ण विद्यार्थी आपल्या विषयामध्ये तरवेज होतील असा आशावाद व्यक्त केला.

सदर कार्यशाळा भारत सरकारच्या विज्ञान व प्रौद्योगिकी विभागाच्या राष्ट्रीय विज्ञान व प्रौद्योगिकी संचारण परिषदेच्या अनुदानातून, आंतरराष्ट्रीय ख्यातीच्या होमी भाभा विज्ञान शिक्षण केंद्र, मुंबई, एशियन असोसिएशन फॉर बॉयलॉजी एज्युकेशन (भारत), बजाज विज्ञान केंद्र वर्धा आणि टेकशिक्षा विज्ञान समूह, मुंबई यांच्या समन्वयात्न माध्यमिक शाळास्तरावर विज्ञान आणि गणित विषय शिकविणाऱ्या शिक्षकांसाठी एक सुवर्णसंधी म्हणून आयोजित करण्यात आली होती.

कार्यशाळेचा समारोप श्री शिवाजी विज्ञान महाविद्यालय, प्राचार्य डॉ. विजय ठाकरे यांच्या अध्यक्षतेत तसेच ए.के.चीतालीया, मुख्याध्यापक, मनिबाई गुजराती हायस्कुल यांच्या प्रमुख उपस्थितीत पार पडला.

कार्यशाळेत एकूण साठ स्टेट तसेच सीबीएससी बोर्ड चे शिक्षक सहभागी झाले होते. त्यापैकी कारंजा लाड येथील पापडकर, अमरावतीच्या भटनागर आणि देशपांडे या शिक्षकांनी त्यांच्या विशेष अध्यापन पद्धतीचे सादरीकरण केले.

या कार्यशाळेच्या यशस्वीतेकरीता आयोजन समितीचे सदस्य डॉ. भटकर, डॉ. देवतारे, डॉ. लुंगे, डॉ. हेडावू, डॉ. नागपूरे, डॉ. मंडलीक, प्रा. ओक, प्रा. ददगल, प्रा. नागमोते, प्रा. इंगळे, प्रा. जैसवाल, काळे, इंगळे, पर्वतकर, माळवे यांनी अथक परिश्रम घेतले.

# Appendix – III

Two Days Workshop on Inculcation of Activity Based Learning Practices in Science and Mathematics Teachers at Secondary Level and Exploration of Innovative Practices in Teaching – Learning and Evaluation Methods

# 30th November and 1st December, 2016

VENUE : Shri Shivaji Science College, Amravati

# Participant Attendance Sheet (1st December, 2016)

S.N.	NAME OF TEACHER	SCHOOL	Morning Session	Afternoon Session
1.	AKHADE PB	SHRI SHIVAJI HIGH SCHOOL, BULDANA	widning design	Alternoon session
2.	BALSARAF AU	ADARSH HIGH SCHOOL, AANJI MOTHI	Relay	CHILL.
3.	BARDE RW	SHRI SHIVAJI HIGHSCHOOL, MAIN BRANCH, AMRAVATI	Water)	- JE
4.	BHATNAGAR DEEPALI	PODAR INTERNATIONAL SCHOOL	- CR	R
5.	BORE NM	SHRI SHIVAJI HIGH SCHOOL, NER PARSOPANT	ABOVE.	CHBOSE
6.	CHAFALEKAR NS	CHANDUR GIRLS HIGH SCHOOL, CHANDUR RLY	00/ W.14	2000
7.	CHAUKHANDE VB	SHRI SHIVAJI MAHATHA HIGH SCHOOL, AMRAVATI	OVER STREET	(Bruff)
8.	DANGATE MS	NAVALAJI BABA VIDYALAYA, MANGARUL BHILAPUR	of Congale	-C. MAN
9.	DESHMUKH AN	CHANDUR GIRLS HIGH SCHOOL, CHANDUR RLY	A	42
10.	DESHMUKH RP	JANATA HIGHSCHOOL, PURNA NAGAR	Admith	OPI Fe
11.	DESHPANDE AY	PODAR INTERNATIONAL SCHOOL	Veshgande	Onkeande -
12.	DFVKAR SV	SHRI TUKARAM INGOLE VIDYALAYA, KANSHIYANI	Carlona	90-10-
13.	DHAGE DM	KASTURBA GIRLS HIGH SCHOOL, AMRAVATI	See.	ACCOUNT OF THE PARTY OF THE PAR
14.	DHAKITE JP	JARUD HIGHH SCHOOL, JARUD	*hakile_	- hakele
15.	DHANDE VB	SHRI SHIVAJ! HIGH SCHOOL, CITY BR, AKOLY	Bho	OSh D
16.	DOIFODE HS Dawgee	JANATA VIDYALAYA, NER PINGALAI	Davare	Dure
17.	DRAVYAKAR BR	MODEL HIGH SCHOOL, WARDHA	98RO.	3840
18.	GAWALI IS	SHRI SHIVAII HIGH SCHOOL, NER PARSOPANT	Atmounts	-Asimouli
19.	GAWHALE RB	SHRI TUKARAM INGOLE VIDYALAYA, KANSHIVANI	-teleph-	Stores I
20.	GHUGE RS	SHRI SHIVAJI HIGH SCHOOL, WANOJA	Phugo	alugo
		+ 7 *	04	04

21.	GHURDE PV	RATNABAI RATHI HIGH SCHOOL, DARYAPUR	<del></del>	
22.	HEDAOO SN	ADARSH HIGH SCHOOL, DARYAPUR	Com-	-0-
23.	HINGANKAR AD	SHRI SHIVAJI HIGH SCHOOL, MAIN BR. AKOLA	Con Dale	र्था क्ष्मांड
24.	HINGE PJ .	SHRI SHIVAJI HIGH SCHOOL, KINHOLA	10 1:00-	N. V
25.	HIRULKAR DO	ADARSH HIGHSCHOOL, DARYAPUR	The state of the s	and the second
26.	JADHAO GN	SHRI SHIVAJI JR HIGH SCHOOL, CHIKHALI	Frucis	Firman
27.	JAYALE RG	VIDYAMANDIR HIGH SCHOOL, KORADI		11.0
28.	KADU ND	MUNNALAL GUPTA VIDYALAYA, CHANDUR RLY.		
29.	KALE KB	SCHOOL OF SCHOLARS, AMRAVATI	(D) 0	601
30.	KALE NK	NEW ENGLISH HIGH SCHOOL, WARUD	Mark	way.
31.	KALE PV	NANDGAON HIGH SCHOOL, NANDGAON KHANDESHWAR	Kate	Male
32.	KAMBE SV	SHRI SHIVAJI JR HIGH SCHOOL, MAIN BR. AMRAVATI	stample.	Val-
33.	KANDEKAR PD	KHALLAR HIGH SCHOOL, KHALLAR	SI BATHE,	scambe.
34.	KANKHAR JB	SHRI SHIVAJI HIGH SCHOOL, CHIKHALI		
35.	KORDE GB	ADARSH HIGHSCHOOL, DARYAPUR	lado	Por de
36.	KULKARNI VS	NARAYANDAS LADDHA HIGHSCHOOL, AMRAVATI	la Cazni	(skazu)
37.	MAHAJAN RR	RATNABAI RATHI HIGH SCHOOL, DARYAPUR	Apartuan	(HA KARON)
38.	MANKAR SM	JANATA HIGHSCHOOL, PURNA NAGAR	- Page - Control	
39.	MARASKOLHE MM	NEW ENGLISH HIGH SCHOOL, WARUD	(O) anhob	(Marshel)
40.	, METKAR RT	SHRI SHIVAJI HIGH SCHOOL, SHIRAJGAON BAND	- Colored	Church
41.	MORE SS	SHRI SHIVAJI HIGH SCHOOL, ANCHARWADI	局耐	thought .
42.	NAGARE PP	SHRI SHIVAJI HIGH SCHOOL, AKOT	Mis	MIL
43.	NAGRALE SP	SHRI SHIVAJI HIGH SCHOOL, BULDANA	Sego 3	4482
44.	NARALE SP	SHRI SHIVAJI HIGH SCHOOL, KINHI RAJA	egul	- the
45.	NAVGHARE SP	SHRI SHIVAJI JR HIGH SCHOOL, CHIKHALI	Tylere	lybere
46.	NIMJE JC	SHRI SANT MANIRAM BABA VIDYALAYA, BAGGI JAWARA	aumi	Garne
47.	DANDE AG PA KHANDAR	SCHOOL OF SCHOLARS, AMRAVATI	M	CART
48.	PAPALKAR PP	SHRI KANKUBAI GIRLS HIGHSCHOOL, KARANJA LAD	Spapaller	Propalse

-	Table 1 and			
49.	PARASKAR SD	SHRI SHIVAJI HIGH SCHOOL, CITY BR, AKOLA		
50.	PAWAR KP	SHRI SHIVAJI HIGH SCHOOL, DEULGAON MAHI		
51.	PAWAR PD	JARUD HIGH SCHOOL, JARUD		10
52.	PONDE AS	GIRLS HIGH SCHOOL, AANJI MOTHI	Kegree	War Is
53.	RADKE SN	SHRI SHIVAJI HIGH SCHOOL, MORSHI	38nd	Sport.
54.	RANE RD	DADASAHEB BOKE VIDYALAYA, WARKHED	facility	Radio
55.	RECHE ANJALI	ADARSH HIGHSCHOOL, DARYAPUR	K skim	(STAM
56.	TAYADE MR	SHRI SHIVAJI HIGH SCHOOL, KINHI RAJA		17,
57.	THAKARE JB	JANATA HIGH SCHOOL, KHAR TALEGAON	Surgods	. drugado .
58.	THAKARE ND	SHRI SHIVAJI HIGH SCHOOL, MORSHI		
59.	THAKARE RM	SHRI SHIVAJI HIGH SCHOOL, MAIN BR. AKOLA	Dhalan	Dhatan
60.	THAKARE SB	ADARSH HIGHSCHOOL, DARYAPUR	Phakevae	Photogra
61.	THAKARE VA	GIRLS HIGH SCHOOL, AANJI MOTHI	Sh-	game
62.	THOSAR RH	SHRI SHIVAJI HIGH SCHOOL, RAMTIRTH	- Chi 44 11	
63.	WADSKAR AB	NEW ENGLISH HIGH SCHOOL, WARUD	(RE)heron	Balloso
64.	WAGHMARE GP	SHRI SHIVAJI HIGH SCHOOL, TELHARA		
65.	WANKHADE RA	SHRI SHIVAJI HIGH SCHOOL, CHIKHALI	Sport	assage >
66.	WANKHADE SR	SHRI SHIVAJI HIGH SCHOOL, CHANDOL		
67.	WARDIKAR NG	MANIBAI GUJRATI HIGHSCHOOL, AMRAVATI	a MA	0.000
68.	WASNIK SR	SHRI SHIVAJI HIGH SCHOOL, DARVHA	TO THE	1810014
59.	WATANE SV	SHRI SHIVAJI HIGHSCHOOL, MAIN BRANCH, AMRAVATI	0	-
70.	NERKAR NS	KHALLAR HIGHSCHOOL & JUNIOR COLLEGE, KHALLAR	Same Or	( E
71.	TIWALKAR PK	SHIVAJI SCHOOL, WANOJA	Tetkee	Hoeke
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## 11.3.7. Brief outlines of the outcomes of the actual analysis of the 'effects' of the Project on the target population

Based on the analysis of the feedback given by the participants following are the benefits reaped by teachers after successful completion of the workshop –

- 1. The workshop introduced various innovative methodologies of teaching science and maths
- 2. Exploration of importance of activity based learning for students
- 3. Healthy discussion undertaken after every talk revealed many new things to the participants
- 4. Inquiry based teaching methodology was considered by all participants as one of the best methods of teaching
- 5. All participants appreciated workshop as inspiring and nurturing to their creativity
- 6. The knowledge and methods of teaching, learning and evaluation is updated
- 7. They learnt to enjoy teaching through this workshop
- 8. Creation of the new teaching aids by using waste and readily available materials taught to conduct experiments in time bound frame of the classroom teaching, without any special efforts
- 9. Dramatization of the key concepts was also most appreciated method of teaching
- 10. Participants learned to generate curiosity and nurture it to increase enthusiasm in students
- 11. Overall criticising attitude to waste time in activities during teaching was vanished and now all the participants whole heartedly accepted to plan for best activities to enhance understanding level of the students

## 12. Suggested plan of action on the completed Project, particularly on its aspects which could result in future utilization of the outcomes:

Following were some of the best the suggestions given by participants which are applicable to upgrade such workshops –

- Medium of instruction during the workshop must be bilingual, English and Marathi as local language
- 2. Workshop should be arranged for at least five to seven days
- 3. There should be separate workshop for Maths and Science Teachers
- 4. Some resource persons should be teaching at the same level of the participants
- 5. The workshop should be planned in the beginning of the academic session
- 6. More activities need to conduct during workshop
- 7. Selected topics from the curriculum of the classes should be demonstrated
- 8. Resource persons should focus on the resources and the students available at rural places
- 9. Similar workshops for students and parents should be convened
- 10. Subject wise planning of the workshop should be there

## Year 2017-2018



## SHIVAJI VIDNYAN PARISHAD - 2017

on

Science Teaching, Learning and Evaluation: Experiences and Challenges

28th to 30th December, 2017

Jointly organized by



#### Shri Shivaji Education Society

Amravati, Maharashtra, India



#### Homi Bhabha Centre for Science Education

TIFR, Mumbai, Maharashtra, India

#### Venue

Shri Shiveji Education Society, American

#### Shri Shivaji Science College

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#### Shivaji Nagar, Morshi Road, Amravati - 444 603, Maharashtra

Website: www.shivajiscamt.org, Email: office@shivajiscamt.org Contact Nos.: 0721-2660855, Fax: 0721-2665485

#### In Association with

Dr. Panjabrao Dexhmukh Memorial Science Centre, Amravati and Dr. Panjabrao Dexhmukh Human Resource Development and Training Centre, Amravati



## Leaning Science: Experiences and Challenges

#### EDITOR

DR. D. D. KHEDKAR

Associate Professor in Botany

#### Shri Shivaji Science College

Shivaji Nagar, Amravati, MS, India

Website: www.dineshkhedkar.com, Email: ddkhedkar@shivajiscamt.org

## 5<sup>m</sup> SHIVAJI VIDNYAN PARISHAD - 2017

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#### Shri Shivaji Science College

NASC Rescoration by Grade "A" (Third Cycle) and UGC Awarded Callege with Potential for Excellence DST Identified for respect under FIST and Sout Guige Baba Assured Deliveraby as "Leaf Callege"

Shivaji Nagar, Morshi Road Amravati - 444 603, Maharashtra

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#### 5<sup>th</sup> Shivaji Vidnyan Parishad - 2017

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Dr. D. D. Khekdar

Organizing Secretary

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Dr. N. R. Bondre

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Mr. Anand Hiwarale

Mr. Shyam Ingale

Ms. Shirin Aslam

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Discipline and Campus **Ambience** 

Dr. Nitin Bansod (C) Dr. Anil Asole

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Dr. Anil Asole

Dr. Shrikant Wadhal

Mr. Himanshu Jaiswal

(Zoology UG and PG Labs)

#### SCIENCE GALLERIES

1. Dr. Pankaj Nagpure (World of Light)

Physics Lab

2. Dr. Nilesh Thakare (Yes, You can do it!)

Biotechnology Lab

3. Mr. Kirti Gawai

(Biodiversity and Env. Awareness)

Environmental Science Lab (UG)

4. Dr. Gajanan Wagh

(Conventional Seed Treasure)

Environmental Science Lab (PG)

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Jointly organized by

Shri Shivaji Education Society, Shivaji Nagar, Amravati, (M. S.), INDIA and

Homi Bhabha Centre for Science Education, T.I.F.R., Mumbai, (M. S.), INDIA

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## Shri Shivaji Science College

NAAC Accredited by Grade A (Third Cycle), UGC Awarded Status of College with Potential for Excellence Identified by DST, Gol for FIST and Sant Gadge Baba Amravati University as Lead College

> Shivaji Nagar, Nagpur Road Amravati, MS, India – 444603 Website: www.shivajiscamt.org | Email: svp17@gmail.com Contact: 0721-2660855 | Fax: 0721-2665485

### Fervorous Teachers: Furious Generations

#### **About Organizers**



## Homi Bhabha Centre for Science Education Tata Institute of Fundamental Research, Mumbai, India

Homi Bhabha Centre for Science Education (HBCSE) is a National Centre of the Tata Institute of Fundamental Research (TIFR), Mumbai. The broad goals of the Centre are to promote equity and excellence in science and mathematics education from primary school to undergraduate college level, and encourage the growth of scientific literacy in the country.

Over the four decades, HBCSE (www.hbcse.tifr.res.in) has undertaken various R & D projects in science and mathematics education. To these ends it carries out a wide spectrum of interrelated activities, which may be viewed under three broad categories:

- Research and Development,
- Teacher Orientation and Science Popularisation, and
- Olympiads and other Students' Nurture Programmes

Since July 1974, it has conducted a large number of in-service teacher orientation programmes in urban, rural and tribal parts of the country. It is India's nodal centre for Olympiad programmes in Mathematics, Physics, Chemistry, Biology and Astronomy. Another major program of HBCSE is the National Initiative on Undergraduate Science (NIUS). HBCSE runs a Graduate School in Science and Mathematics Education. Students admitted to HBCSE Graduate School work for the degree of Ph.D. in Science Education, which is a degree of TIFR (Deemed University).

Vidnyan Parishad is the extension of the services of the HBCSE. The basic objective behind launching is to modernize education system at school level and update teachers regarding the recent trends in education strategies. The fruitful parishad's organized by Shri Shivaji Education Society, Amravati witnessed by teaching fraternity is inspiring for all.



#### SHRI SHIVAJI EDUCATION SOCIETY

Shivaji Nagar Amravati – 444603, MS, India



The Shri Shivaji Education Society, Amravati was founded by a Great Philanthropist of Vidarbha Region Krushiratna **Dr. Panjabrao alias Bhausaheb Deshmukh**, First Union Agriculture Minister for India, in 1931-32. The foundation was led to offer education to all the classes of society, especially to the downtrodden and socio-economically backward sections. Registered as a Society under Societies Registration Act, 1860, R. No. 13 of 1932 – 1933 dated 2/12/1932 and as a Public Trust under Bombay Public Trust Act 1950, R.N. F/89 dated 18/3/1963

The society has taken up a mission, to use education as a tool of social transformation and to spread opportunity of education amongst deprived sections of the populace, equipping them to participate in the nation building activity, so as to promote individual, social and national growth. Importantly, the aim is to eradicate illiteracy, blind faith and develop scientific temperament amongst rural population by educating them through establishing education institutes.

It started as small institute with a primary school, seven middle schools and eight colleges, which has now expanded with 24 Senior Colleges, 54 Junior colleges, 75 middle schools, 35 hostels mainly in the region of Vidarbha. The educational institutions cover areas like Medicine, Engineering, Agriculture, Science, Arts, Commerce, Bio-technology, Computers, Education, Physical education, Horticulture, Information technology, law, and micro-biology. It also runs a Polytechnic for boys and girls at Amravati.

Our inspiration Dr. Bhausaheb and the Society is widely acknowledged and bestowed with different honours:

- "Krushiratna Award" an Honorary Title from Govt of India (1986)
- "Dalit Mitra Award" Deptt. of Social Development, Maharashtra State (1993)
- "Best Social Service Award" Gadgebaba Mission, Mumbai (1998)
- "Best Administered Education Society Award" (2000)
- Department of Postal Services released a Postal Stamp in favour of Bhausaheb Deshmukh referring him as "Freedom Fighter and Social Reformer (1999)
- Special Grant of Rs. 75 Lakhs declared by Maharashtra Govt. on Platinum Jubilee Celebration (2007)
- Indian Economic Development & Research Association, New Delhi conferred "Indian Leadership Award for Education Excellence" To Adv. Arunkumar Bhimraoji Shelke, President, Shri Shivaji Education, Society, Amravati Dt. 11.2.11.
- "Maharashtra Nirmata Award" from Bharatiya Samajik Vigyan Va Loksahitya Sanshodhan Sanstha, 50 Shivram Nagar, Parbhani, Maharashtra (2011)

#### Shri Shivaji Science College, Amravati

Shri Shivaji Science College, Amravati was established in 1958 with a combination of faculties namely Science, Arts, Commerce, Law and Agriculture, and was separated as a Science faculty in 1969, and has already completed fifty glorious years of its existence in 2008. We can proudly declare that it has indeed grown from a seedling into a tree that has not only sheltered thousands of youngsters but also has molded them into great personalities, now scattered across the globe. With its first accreditation in 2001 with an A Four Star grade, and reaccredited in 2008, with an "A Grade" "Very Good", CGPA 3.10, by NAAC. Once again NAAC has endorsed quality of this college by adjudging it as "A Grade" College with CGPA 3.13 in Third Cycle of accreditation. It was indeed a great achievement. The College has also earned a special reputation for being conferred with the status of a "College with Potential for Excellence", by the UGC, in the first phase and now stepped up in the second phase of CPE. The college has also identified by Department of Science and Technology, GoI for grants under FIST. Sant Gadge Baba Amravati University has also nominated this college as "Lead College".

#### Highlights:

- 1) Introduction of Science as a new faculty in Shri Shivaji College in 1958.
- 2) Separated from parent institution as an independent Shri Shivaji Science College in 1969.
- 3) Evolved as Premier Institution for imparting formal education in the Science stream.
- 4) Reaccredited by NAAC, Banglore with 'A' Grade with CGPA 3.13 (Third Cycle).
- 5) UGC has awarded CPE (College Potential with Excellence) status for Second Phase.
- 6) The college has also identified by Department of Science and Technology, GoI for grants under FIST.
- 7) Sant Gadge Baba Amravati University has also nominated this college as "Lead College"...
- 8) Conveniently accessible from all parts of Amravati city.
- 9) Spacious and evergreen campus.
- 10) Permanent, Fulltime, Competent staff.
- 11) Spacious class-rooms, modern, well-equipped laboratories & excellent sports facilities.
- 12) Campus networking and Broad Band Connectivity.
- 13) Fully computerised competent library with SOUL software, OPAC and Circulation Module.

## Indian Institute of Science Education and Research (IISER), Pune Outreach Brief Note



The Centre of Excellence in Science and Mathematics Education (COESME), at IISER Pune has been set up as a part of the Pandit Madan Mohan Malaviya National Mission for Teachers and Training under the ambit of the Ministry of Human Resource Development. The objective of this center is to help impart pedagogical training to teachers as well as hands on science education to students from various schools, colleges, universities and research institutes.

#### **Activities**

Several activities are being planned and conducted as part of the COESME. These fall under three broad areas:

- 1. Pedagogical innovation by and for school/college teachers and educationists
- 2. Science Exploratorium
- 3. Science and Mathematics Educational Camps for Students

#### 1. Pedagogical innovation by and for school/college teachers and educationists

CoESME aims to organize workshops for school and college teachers to empower them to incorporate research based teaching methodologies into their daily practice. Teachers will be encouraged to develop their own teaching resources. Wherever needed, support and advice would be provided with the help of national and international experts in curriculum and pedagogy. The workshops will bring teachers together, network them and provide them an opportunity to learn pedagogical techniques from each other and refine these to make them more effective. These workshops will focus on implementing effective hands-on training and inquiry-based learning in classrooms. In addition to workshops, COESME will host a number of teacher interns at IISER Pune for more rigorous and personalized training.

One of our current projects is a **Series of Pedagogy Workshops for Undergraduate Science Teachers**, organized with support from the DBT/DST, Govt. of India and in collaboration with Newton Bhabha Fund, British Council.

These hands-on workshops are designed to introduce teachers of UG/PG science courses to pedagogical tools that focus on process of science rather than information, and help students develop critical thinking and problem-solving abilities. The workshops give teachers a platform to network and to get information on funding opportunities. COESME plans to take this programme to all parts India at 3 levels:

- Level 1 workshops: National workshops conducted by a team from University of Sheffield, UK along with experts from India
- **Level 2 workshops**: Train-the-trainer modules for selected participants from Level 1 to enable them to train other teachers
- Regional RBPT Workshops: Workshops for smaller, regional groups all over India, conducted by teachers trained at Level 2

#### 2. Science Exploratorium

One of the planned activities for CoESME is the creation of a Science Exploratorium which would provide students with a hands-on, interactive center for learning basic scientific concepts through the use of models, scientific toys and other immersive learning approaches. The aim is to help learners internalize concepts better and to excite their imagination and creativity.

#### 3. Science and Mathematics Educational Camps for Students

Short residential camps are held for school and college students to acquaint them with research in different fields and to give them a feel of the research environment. In addition, promising students are provided with a platform to carry out short projects for research-based learning under the guidance of IISER faculty.

At the centre we have a dream of bringing gleam in the eyes and sense of wonder in children and teachers. We wanted science and math learning interesting and experiential so that children can relate the textbooks in their daily lives. We create hands-on activities, models (we call them toys) using very inexpensive material, so that every hold has access to interesting learning. We make short films on how to make these models and upload it on YouTube. Our channel has 60 million viewers, for our 1100 + activities. All this is available on our <a href="YouTube channel">YouTube channel</a>. We have also dubbed these videos in 22 different languages (Indian and foreign). Please see all the film links on our website.

http://www.arvindguptatoys.com/

http://www.arvindguptatoys.com/toys.html

#### https://www.youtube.com/channel/UCT7EcU7rC44DiS3RkfZzZMg

In our workshops for teachers and children we make pumps, generators, motors, spinners, gliders, hundreds of activities in math's all using paper, plastic bottles, straw, syringe tube and very inexpensive material. Once we get our hands dirty by making these toys the conceptual understanding and science becomes easy and natural. While these toys appear simple the science behind them can be interesting and challenging. Levitating a pen in air, folding an equilateral triangle from an A 4sheet. All these activities unravel the science around us. If we can take all these toys inside our classes we could revolutionize learning.

#### **CO - HOST INSTITUTIONS**

#### Dr. Panjabrao Deshmukh Memorial Science Centre, Amravati:

To propagate ideas to nurture research aptitude in young minds the RGSTC in Maharashtra is setting up Science and Innovation Activity Centres all over the state. Shri Shivaji Education Society, under the aegis of Shri Shivaji Science College, Amravati has taken a lead and is coming up with the Dr. Panjabrao Deshmukh Memorial Science Centre at Amravati that aims at bringing teachers and students together to materialize innovative ideas.

#### Dr. Panjabrao Deshmukh Human Resource Development and Training Centre, Amravati:

This is an independent centre working towards the updating of teachers from this region for imparting qualitative education. This centre aims at spreading the cause of education, by equipping the teachers with better know-how and steering them towards application of their abilities. It sculpts out the best educator from good teachers by combining hundreds of qualities that allow them to educate their pupils in the real sense. The centre nurtures the uniqueness of every teacher and ultimately renders a teacher a unique blend of all those qualities that the modern society expects in every good teacher.

#### TENTATIVE CONFERENCE SCHEDULE

10.7 (10.00.00.00.00.00.00.00.00.00.00.00.00.0	Thursday, 28th December, 2017
Session 1: 10.00 - 11.30	Inauguration
Session 2: 12.00 - 1.00	Key Note Address by Dr. Suhas B. Naik-Satam
Session 2. 12.00 - 1.00	Programme Coordinator (Scientific), Nehru Centre, Mumbai
	Astronomy tilted our awesome universe
S 2. 1.00 2.00	FINE CONTROL OF THE C
Session 3: 1.00 - 2.00	Dr. Narendra Deshmukh, Scientific Officer-E
	Homi Bhabha Centre for Science Education
	T.I.F.R., Mumbai, (M. S.), INDIA
	Teacher Loves Teaching
	2.00 - 3.00 Lunch
Session 4: 3.00 - 4.30	Teachers' Presentations
Session 5: 4.30 - 5.30	Dr. Sudhir Kumbhar, Asst. Teacher
	Karmavir Bhaurao Patil Vidyalaya, Dhebewadi, Dist: Satara
	5 Es Unique Learning Methods
	Friday, 29 <sup>th</sup> December, 2017
Session 6: 10.00 - 11.30	Mr. Ashok Rupner, Programme Manager
	The Centre of Excellence in Sci. & Math. Education (CoESME)
	Indian Institute of Science Education and Research, Pune
	Let's craft our own way of Teaching
Session 7: 11.30 - 12.30	Mr. Ashok Rupner, Workshop for creation of Teaching Toys
Session 8: 12.30 - 1.30	Teachers' Presentations
	1,30 - 2,30 Lunch
Session 9: 2.30 - 4.00	Dr. Yogesh Kulkarni, Executive Director
	Vigyan Ashram, Pabal, Pune
	Rural Development through Education System
Session 10: 4.00 - 5.30	Dr. Archana Mohod, Founder
	Busy Mind Science Popularization Academy, Pune
	Exploration of Microbial World through
	activities and teaching aids
	Saturday, 30th December, 2017
Session 11: 10.00 - 11.30	
	Tikariya's Science Hobby Center, Jalna
	Making the teaching a fun filled experience for students
Session 12: 11:30 - 1:00	Dr. Narendra Deshmukh, Scientific Officer-E
Season 12. 1120 - 1.00	Homi Bhabha Centre for Science Education
	T.I.F.R., Mumbai, (M. S.), INDIA
	Pedagogical content knowledge and Our Science Teachers
Session 13: 1.00 - 2.30	Panel Discussion:
Scasion 13. 1.00 - 2.50	Role and Contribution of Media in Scientific
	Culture Development in Society
	Mr. Rathod, C.R., Deputy Director, Education, Amravati Region
	Mr. Sudhir Mahajan, Principal, Podar International School
	Mr. Sanjay Thakare, Akashvani, Amravati
	Mr. Sanjay Deshmukh, Sakal News Paper, Amravati
	Mr. Mohan Atalkar, Indian Express Group, Amravati
	Mr. Anilkumar Agrawal, President, Patrakar Sangh, Amravati
	2,30 - 3.30 Lunch
Session 14: 3.30 - 5.00	Valedictory and Prize Distribution

## Four Day's Hands-on Workshop on

### Genome and Plasmid Isolation, PCR, RFLP AND PRIMER DESIGNING

17th February to 20th February, 2018



Organized by

Central Instrumentation Cell

#### Shri Shivaji Science College

Shivaji Nagar, Amravati - 444603, MS, India Department of Botany Department of Environmental Science and

Technical Expertise by

#### Cerebro Scientific

Sector-10, Klarghac Navi Mumbai- 410210



#### Dear Students.

Department of Botany, Environmental Science and Central Instrumentation Cell, Shri Shivaji Science College, Amravati, in association with Cerebro Scientific, Navi Mumbai is organizing 'Four Day's Handson Workshop on Genome and Plasmid Isolation, PCR, RFLP AND PRIMER DESIGNING' to train upcoming Post Graduate Students and researchers in Modern Tools of Molecular Biology, Biotechnology and Bioinformatics. The workshop will involve hands on training on Genome and Plasmid Isolation, PCR, RFLP and Primer Designing.

Eligibility: B. Sc. Final Year Students and Post Graduate students of any Department

Seats: 50 Seats (To conduct hands on Training no. of seats are limited, Spot registration will not be entertained in any case).

Date: 17th - 20th February , 2018 at 10.00 AM - 6.00 PM

Registration Fees: Rs. 1500/- (DD in favour of Principal, Shri Shivaji Science College, Amravati payable at Amravati) or Cash deposit by any mode to the account in the Name of Principal, Shri Shivaji Science College, Amravati: Account Number: 1828206379, Bank: Central Bank of India, APMC Branch, Amravati, IFSC Code: CBIN0283248. Registration Fee includes Study material, Working lunch and Tea.

Venue: Central Instrumentation Cell, Shri Shivaji Science College, Amravati

Participants are advised to come prepared with basics of PCR and difficulties you might have faced.

#### WORKSHOP SCHEDULE

#### Day 1:

L: Introduction to DNA Isolation

P :DNA Isolation

L: Introduction to PCR

Organizing Secretary:

P : DNA Isolation Continuation

#### Day 2:

L: Plasmid Isolation

P: Agarose Gel Loading.

P: Continuation of Plasmid Isolation

#### Day 3:

P: Agarose Gel Loading

P: PCR: Introduction to RFLP

P: Performing RFLP

#### Day 4:

P: Agarose Gel Loading

L: Results Observation & Discussion

P: Primer Designing

#### :: Organizing Committee ::

Convener Dr. Vijay G. Thakare

Co-convener Prof. Bhupendra K. Dorkar, HoD, Botany

Dr. Sangita Ingole, HoD, Env. Sci. Co-convener Dr. Dinesh D. Khedkar, Member, CIC

Dr. Gajanan A. Wagh, Member, CIC Joint Secretary

Treasurer

Dr. Ganesh 8. Hedawoo

Steering Committee:

Dr. Tushar B. Wankhede

Dr. Dilip V. Hande

Dr. Rekha C. Maggirwar

Prof. Kirtidwaj Gavai

Note: To participate in workshop students are advised to log on to www.shrvajiscamt.org to get link for registration form and detailed information about Workshop. Before depositing registration fees please confirm the availability of the seats on the college Website or Contact Person. Submit registration form by clicking on the link https://goo.gl/forms/cyqcQKLZRaXBrvlB2

For Details Contact: Dr. Dinesh Khedkar (+91 9423622287) and Dr. Sangita Ingole (+91 7875805464)



NAAC Accredited with Grade 'A' with 3.13 CGPA and UGC Awarded College with Potential for Excellence Identified by DST for Grants under FIST and Sant Gadge Baba Amravati University as 'Lead College'

## Shri Shivaji Science College

Shivaji Nagar, Morshi Road, Amravati - 444 603 M.S.

Founder : Dr. Panjabrao alias Bhausaheb Deshmukh
 President : Hon'ble Shri Harshwardhan P.Deshmukh

Principal : Dr. V. G. Thakare

**E-mail**: shivajiscamt.office@gmail.com **Web Site**: www.shivajiscamt.org

(O) 2660855; (Fax) 2665485;(R) 2551400

To,

The Principal, Shri Shivaji Science College, Amravati

Subject: National workshop on PCR, RFLP and Primer Designing

Respected Sir,

With your kind consent, under Central Instrumentation Cell and Deptt. of Botany we are organizing "Workshop in collaboration with Cerebro Scientific, Mumbai. To conduct this workshop we require following facilities from the college –

- 1. AV Theater for inaugural function and Valedictory function with audio facility
- 2. Refreshment for Guests for both functions at office
- 3. Broadband Internet Connectivity at AV Theater, Botany deptt. and CIC (Includes Sunday)
- 4. 30 Chairs in AV theater etc.

You may be humble requested to kindly grant permission to conduct the workshop and preside over both for inaugural function and Valedictory function.

Thanking you.

Amravati

Date: 20.02.2014

Yours sincerely

(D. D. Khedkar)



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Principal : Dr. V. G. Thakare

**E-mail**: <a href="mailto:shivajiscamt.office@gmail.com">shivajiscamt.office@gmail.com</a> **Web Site**: www.shivajiscamt.org

(O) 2660855; (Fax) 2665485;(R) 2551400

To, Date: 15<sup>th</sup> January, 2018

The Principal Shri Shivaji Science College, Amravati

Kind Attention: The Head, Dept. of Botany,

The Head, Dept. of Zoology,

The Head, Dept. of \_\_\_\_\_\_

#### Subject: Four Day's Hands-on Workshop on Genome and Plasmid Isolation, PCR, RFLP and Primer Designing

Respected Sir,

Department of Botany, Environmental Science and Central Instrumentation Cell, Shri Shivaji Science College, Amravati, in association with Cerebro Scientific, Navi Mumbai is organizing 'Four Day's Hands-on Workshop on Genome and Plasmid Isolation, PCR, RFLP AND PRIMER DESIGNING' during 17<sup>th</sup> to 20<sup>th</sup> January, 2018. (Specially scheduled including two holidays to avoid academic loss of the students)

This workshop has a target group of **B. Sc. III and Post Graduate Students** of Life Sciences with basic objective to train them in use and applications Modern Tools of Molecular Biology, Biotechnology and Bioinformatics. The course content of this workshop requires modern expensive instrumentation and consumables and generally our students may not obtain opportunity to personally work and learn these advance techniques. We are offering this indispensable experience to the students of our region through this Hand-on workshop.

Following are the Hands-on Experiments to be conducted:

- 1. Genome Isolation
- 2. Plasmid Isolation,
- 3. PCR,
- 4. RFLP
- Primer Designing

The information brochure is attached for your kind perusal and circulation among the students. You are requested to advocate the said workshop to the students of your institution.

We hope to have the kind cooperation to make this workshop fruitful for our students.

Thanking you in anticipation

We remain,

Yours faithfully,

Tonkan

**Dr. D. D. Khedkar** Organizing Secretary Four Day's Workshop



Dr. V. G. Thakare

Principal

Shri Shivaji Science College, Amravati



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## Shri Shivaji Science College

Shivaji Nagar, Morshi Road, Amravati - 444 603 M.S.

❖ Founder : Dr. Panjabrao alias Bhausaheb Deshmukh
 ❖ President : Hon'ble Shri Harshwardhan P.Deshmukh
 ⅙ Web Site : www.shivajiscamt.org

• **Principal** : Dr. V. G. Thakare (0) 2660855; **(Fax)** 2665485; **(R)** 2551400

To

The Principal Shri Shivaji Science College Amravati

#### Subject: Request to sanction an amount payable for Workshop

#### Respected Sir,

As per your kind consent, Department of Botany, Environmental Science and Central Instrumentation Cell, Shri Shivaji Science College, Amravati, in association with Cerebro Scientific, Navi Mumbai is organizing 'Four Day's Hands-on Workshop on Genome and Plasmid Isolation, PCR, RFLP AND PRIMER DESIGNING' during **17**th **to 20**th **January, 2018**.

As per the agreement with the Cerebro Scientific, Navi Mumbai following terms were accepted —

- 1. The mutually decided fees per participant was Rs. 1500/-.
- 2. Total maximum no. of participants allowed were 50.
- 3. Total received amount will be shared with the ratio of 70:30 between Cerebro and College (excluding the amount paid for food arrangements).
- 4. All the other expenses will be deducted from the share of Cerebro.

As per the above terms, I am submitting detailed Receipt and Expenditure statement as follows –

7.	Amount Payable to Cerebro	-	Rs. 29425
6.	Amount spent on other requirements	-	Rs. 8375
5.	70% Share of Cerebro	-	Rs. 37800
4.	30% Share of college	-	Rs. 16200
3.	Amount for 70:30 distribution	-	Rs. 54000
2.	Expenditure on Food Arrangements	-	Rs. 21000
1.	Total amount received from 50 participants	-	Rs. 75000

Therefore, you may be humbly requested to kindly peruse the above statement and sanction the payable amount of **Rs. 29425/-** in favour of Cerebro Scientific. On sanction, please issue the cheque in favour of **Mr. Mandar Karkhanis**. Thanking you in anticipation.

Place: Amravati

Date: 16.02.2018

(D. D. Khedkar)
Organizing Secretary

Yours sincerely

## CEREBRO SCIENTIFIC

## **PROPOSAL**

## **FOR**

# HANDS - ON WORKSHOP ON TECHNIQUES

IN

## MOLECULAR BIOLOGY & BIOINFORMATICS

### A. INTRODUCTION

Learn	Principle, Techniques & Applications in Molecular Biology & Bioinformatics  Hands-On and Demonstration on Laboratory Experiments  Intended towards the understanding of basic principles underlying
Organised By	SHRI SHIVAJI SCIENCE COLLEGE, AMRAVATI
Associated Collaborator	CEREBRO SCIENTIFIC
Appropriate For	Students in Life Sciences
Duration	4 Days
Participant Number Desired	50

Workshop Course Outline	<ol> <li>Includes theory sessions for all hands-on lab experiments.</li> <li>Includes demonstration sessions.</li> <li>Includes hands-on bioinformatics sessions.</li> </ol>
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#### **B.** WORKSHOP DETAILS

TECHNIQUES	SPECIFICATIONS	SESSIONS TYPE	PARTICIPANTS CATEGORY
MOLECULAR BIOLOGY			
Genomic DNA Isolation	From Eukaryotic Sources	Theory + Hands- On	PG Students
Plasmid DNA Isolation	From Prokaryotic Source only	Theory + Hands- On	PG Students
Polymerase Chain Reaction (PCR)	Amplification of specific regions in the genome of an organisms	Theory + Hands- On	PG Students
Restriction Fragment Length Polymorphism (RFLP)	Step that is critical in functional and comparative genetic analysis	Theory + Hands- On	PG Students
BIOINFORMATICS			
Primer Designing	Online bench work	Theory + Hands- On	PG Students

<sup>\*</sup>PG - Post-Graduate

#### C. WORKSHOP SCHEDULE

DAY	SESSION	LECTURE (L) / PRACTICAL (P)	
1	I	L: Introduction to DNA Isolation	
		P :DNA Isolation	
	II	L: Introduction to PCR	
		P: DNA Isolation Continuation	
2	I	L: Plasmid Isolation	
		P : Agarose Gel Loading	
	II	P: Continuation of Plasmid Isolation	
3	I	P: Agarose Gel Loading	
		P: PCR	
	II	L: Introduction to RFLP	
		P: Performing RFLP	
4	I	P: Agarose Gel Loading	
		L: Results Observation & Discussion	
	II	P: Primer Designing	

\*Session I: Morning – 9:00 am -12:30 pm; Session II: Afternoon – 1:30 pm – 5:30 pm

#### D. WORKSHOP EXPENDITURE DISTRIBUTION

Expenditure Category	Estimated Expenditure (Rs)	Bearer of the Expenditure	Percentage distribution of the sum total amount received
Workshop Food Expenditure (for the total duration of the workshop)	20,000/-	Host Institution + Cerebro Scientific	Deducted from the total amount received

Food expenditure amount for the duration of the workshop is deducted from the collection and separately entitled.

Remaining sum of the collected amount will be distributed between;
1. Institutional Beneficiary

2. Workshop Conduction by Cerebro Scientific

Institutional Beneficiary	For the duration of the workshop conducted		30 % (excluding workshop food expenditure)
Chemicals & Consumables	14,000/-	Cerebro Scientific	
Travel & Food (Experts)	10000/-	Cerebro Scientific	70% (excluding workshop food expenditure)
Study Material Printing	2500/-	Cerebro Scientific	
Honorarium (experts)	6000/-	Cerebro Scientific	

#### E. CHARGES APPLICABLE TO THE PARTICIPANTS

PARTICIPANT CATEGORY	CHARGES APPLICABLE (Rs)
Students (PG)	1500 per candidate only

#### F. **CONTACT DETAILS:**

INCHARGE	MANDAR KARKHANIS
EMAIL	mandar.a.karkhanis@gmail.com
CONTACT	9969020130

Shri Shivaji Science College, Amravati 'Four Day's Hands-on Workshop on Genome and Plasmid Isolation, PCR, RFLP AND PRIMER DESIGNING' 17<sup>th</sup> to 20<sup>th</sup> February, 2018. **List of Participants** 

#### BATCH: 1 (B. Sc. and M. Sc. I)

S.N.	NAME	GENDER	CLASS	SUBJECT	COLLEGE	SIGN
1.	DHURVE RASHMI BHARAT	FEMALE	B. SC. III	BOTANY	S.P.M SCIENCE AND GILANI ARTS AND COMMERCE COLLEGE, GHATANJI	
2.	SIDAM PUJA WASUDEO	FEMALE	B. SC. III	BOTANY	S.P.M SCIENCE AND GILANI ARTS AND COMMERCE COLLEGE, GHATANJI	
3.	UINWAR RITESH RAJARAM	MALE	B. SC. III	MICROBIOLOGY	MAHATMA GANDHI MAHAVIDYALAYA ARMORI	
4.	ZADE SANJIVANI MAROTI	FEMALE	B. SC. III	BIOTECHNOLOGY	SHRI SHIVAJI SCIENCE COLLEGE AMRAVATI	
5.	WATANE TEJSWINI RAJESHWAR	FEMALE	B. SC. III	BIOTECHNOLOGY	SHRI SHIVAJI SCIENCE COLLEGE AMRAVATI	
6.	BHUTADA PANKHUDI VIJAY	FEMALE	B. SC. III	BIOTECHNOLOGY	SHRI SHIVAJI SCIENCE COLLEGE AMRAVATI	
7.	THAKUR MUSKAN RAJKUMAR	FEMALE	B. SC. III	MICROBIOLOGY	SHRI SHIVAJI SCIENCE COLLEGE AMRAVATI	
8.	CHAUDHARI GARGEE GAJANAN	FEMALE	B. SC. III	MICROBIOLOGY	SHRI SHIVAJI SCIENCE COLLEGE AMRAVATI	
9.	HOLE MAYURI BALASAHEB	FEMALE	B. SC. III	BIOTECHNOLOGY	SHRI SHIVAJI SCIENCE COLLEGE AMRAVATI	
10.	JAWANJAL POONAM DEEPAKRAO	FEMALE	B. SC. III	BIOTECHNOLOGY	SHRI SHIVAJI SCIENCE COLLEGE AMRAVATI	
11.	PAWAR LALIT VILASRAO	MALE	B. SC. III	BIOTECHNOLOGY	SHRI SHIVAJI SCIENCE COLLEGE AMRAVATI	
12.	WADEKAR SHUBHAM JANRAO	MALE	B. SC. III	BIOTECHNOLOGY	SHRI SHIVAJI SCIENCE COLLEGE AMRAVATI	
13.	CHANDANKHEDE GAYATRI HARIDAS	FEMALE	B.SC.II	BOTANY	INDIRA MAHAVIDYALAY KALAMB DIST. YAVATMAL MAHARASHTRA	

14.	BHANKHEDE RASHMI BHALCHANDRA	FEMALE	B.SC.II	BOTANY	INDIRA MAHAVIDYALAY KALAMB DIST. YAVATMAL MAHARASHTRA
15.	WELUKAR SHUBHANGI JAYRAM	FEMALE	M. SC. I	BOTANY	SHRI SHIVAJI SCIENCE COLLEGE AMRAVATI
16.	ZADE RAGINI BAPURAO	FEMALE	M. SC. I	BOTANY	SHRI SHIVAJI SCIENCE COLLEGE AMRAVATI
17.	SONONE KARUNA HANSARAJ	FEMALE	M. SC. I	ENVIRONMENTAL SCIENCE	SHRI SHIVAJI SCIENCE COLLEGE AMRAVATI
18.	BADASE ANUJA SANJAYRAO	FEMALE	M. SC. I	ENVIRONMENTAL SCIENCE	SHRI SHIVAJI SCIENCE COLLEGE AMRAVATI
19.	WANKHADE SAKSHI ANIL	FEMALE	M. SC. I	ENVIRONMENTAL SCIENCE	SHRI SHIVAJI SCIENCE COLLEGE AMRAVATI
20.	MEHWISH KAUSAR	FEMALE	M. SC. I	ENVIRONMENTAL SCIENCE	SHRI SHIVAJI SCIENCE COLLEGE AMRAVATI
21.	GAJBHIYE DEEKSHA DIWAKAR	FEMALE	M. SC. I	ENVIRONMENTAL SCIENCE	SHRI SHIVAJI SCIENCE COLLEGE AMRAVATI
22.	JANE GOURI MAHENDRA	FEMALE	M. SC. I	BIOINFORMATICS	SHRI SHIVAJI SCIENCE COLLEGE AMRAVATI
23.	BOHARAPI GAURAV GAJANANRAO	MALE	M. SC. I	BIOINFORMATICS	SHRI SHIVAJI SCIENCE COLLEGE AMRAVATI
24.	BHOSLE ASHWIN ANUPKUMAR	MALE	M. SC. I	BIOINFORMATICS	SHRI SHIVAJI SCIENCE COLLEGE AMRAVATI

Dr. D. D. Khedkar Workshop Coordinator

Shri Shivaji Science College, Amravati 'Four Day's Hands-on Workshop on Genome and Plasmid Isolation, PCR, RFLP AND PRIMER DESIGNING' 17<sup>th</sup> to 20<sup>th</sup> February, 2018. **List of Participants** 

#### **BATCH: 1 (M. Sc. II and Post PG)**

25.	NAGTURE MADHURI RAJENDRA	FEMALE	M. SC. II	BOTANY	JANKIDEVI BAJAJ COLLEGE OF SCIENCE
					WARDHA
26.	KANGALE MONIKA RAJESH	FEMALE	M. SC. II	BOTANY	JANKIDEVI BAJAJ COLLEGE OF SCIENCE
					WARDHA
27.	KASHID MRUNALI RAVINDRA	FEMALE	M. SC. II	MICROBIOLOGY	SHRI R. L. T. COLLEGE OF SCIENCE,
					AKOLA
28.	AGRAWAL HARSHA MAHENDRA	FEMALE	M. SC. II	MICROBIOLOGY	SHRI R. L. T. COLLEGE OF SCIENCE,
					AKOLA
29.	DHOLE RUCHITA DIPAK	FEMALE	M. SC. II	MICROBIOLOGY	SHRI R.L.T. COLLEGE OF SCIENCE
					AKOLA
30.	JOSHI SHRUTI GHANSHYAM	FEMALE	M. SC. II	MICROBIOLOGY	SHRI R.L.T.COLLEGE OF SCIENCE AKOLA
50.	JOSHI SHKOTI GHANGHTAWI	LIVITEE	Wi. Sc. II	MICKOBIOLOGI	STRUKELT.COLLEGE OF SCIENCE TROOP
31.	RELKAR SHREEYA NARENDRA	FEMALE	M. SC. II	MICROBIOLOGY	SHRI RLT COLLEGE OF SCIENCE, AKOLA
31.	REEK/IR STIREE I'V IV IREIGEN	LIVITEE	Wi. Sc. II	MICKOBIOLOGI	STIRCT COLLEGE OF SCIENCE, TIKOLA
32.	PINJARKAR RUPAM VISHWANATH	FEMALE	M. SC. II	BIOCHEMISTRY	SHRI SHIVAJI ART COMM & SCI COLLEGE
32.		I DIVITED	Wi. Sc. II	BIOCHEMISTRI	AKOLA
33.	ADEL ASHWINI BHASHAKARRAO	FEMALE	M. SC. II	BIOCHEMISTRY	SHRI SHIVAJI ART COMM & SCI COLLEGE
33.		1 ENTILE	W. Sc. II	BIOCHEMISTRI	AKOLA
34.	VASU POOJA BABARAO	FEMALE	M. SC. II	BIOCHEMISTRY	SHRI SHIVAJI ART COMM & SCI COLLEGE
J <b>T</b> .	VASC 1003A BABAKAO	ILWIALL	Wi. Sc. II	BIOCHEMISTRI	AKOLA
35.	PAKHAN DHANASHRI BALKRISHNA	FEMALE	M. SC. II	ZOOLOGY	SHRI SHIVAJI SCIENCE COLLEGE
33.	FARIIAN DIIANASIIRI BALKRISIINA	TEMALE	M. SC. II	ZOOLOGI	AMRAVATI
26		PENALE	M CC II	7001 0CV	
36.	SHARMA ADITI RAJENDRA	FEMALE	M. SC. II	ZOOLOGY	SHRI SHIVAJI SCIENCE COLLEGE
	224717777777777777777777777777777777777		26.00 77		AMRAVATI
37.	NAKADE POOJA ANILRAO	FEMALE	M. SC. II	ENVIRONMENTAL SCIENCE	SHRI SHIVAJI SCIENCE COLLEGE
					AMRAVATI
38.	GOBADE MAYURI KISANRAO	FEMALE	M. SC. II	ENVIRONMENTAL SCIENCE	SHRI SHIVAJI SCIENCE COLLEGE
					AMRAVATI
39.	WANKHADE KANCHAN GOVINDRAO	FEMALE	M. SC. II	BOTANY	SHRI SHIVAJI SCIENCE COLLEGE
					AMRAVATI

40.	RAUT RINA DHANRAJRAO	FEMALE	M. SC. II	BOTANY	SHRI SHIVAJI SCIENCE COLLEGE AMRAVATI
41.	SHABNAM AFREEN ABDUL RAUF	FEMALE	M. SC. II	BOTANY	SHRI SHIVAJI SCIENCE COLLEGE AMRAVATI
42.	MAWALE VAISHNAVI PREMANAND	FEMALE	M. SC. II	BOTANY	SHRI SHIVAJI SCIENCE COLLEGE AMRAVATI
43.	KALE MANGESH SUBHASHRAO	MALE	M. SC. II	BOTANY	SHRI SHIVAJI SCIENCE COLLEGE AMRAVATI
44.	PATEL NAVED KHALID PATEL	MALE	M. SC. II	BOTANY	SHRI SHIVAJI SCIENCE COLLEGE AMRAVATI
45.	CHOUBE DIKSHA RAJESH	MALE	M. SC. (C)	MICROBIOLOGY	SHRI R. L. T. COLLEGE OF SCIENCE, AKOLA
46.	SURWADE SARIKA PARASHARAM	FEMALE	M. SC. (C)	MICROBIOLOGY	SHRI R. L. T. COLLEGE OF SCIENCE, AKOLA
47.	KAWADKAR POOJA SURESH	FEMALE	M. SC. (C)	MICROBIOLOGY	SHRI R. L. T. COLLEGE OF SCIENCE, AKOLA
48.	DESHMUKH RUPALI RAOSAHEB	FEMALE	STAFF	MICROBIOLOGY	VASUDHATAI DESHMUKH, COLLEGE OF FOOD TECHNOLOGY, AMRAVATI
49.	BHAGAT SONALI RAJKUMAR	FEMALE	STAFF	MICROBIOLOGY	VASUDHATAI DESHMUKH, COLLEGE OF FOOD TECHNOLOGY, AMRAVATI
50.	GOHATRE CHAITALI NARENDRA	FEMALE	STAFF	CHEM. ENGINEERING	VASUDHATAI DESHMUKH, COLLEGE OF FOOD TECHNOLOGY, AMRAVATI
51.	JAWALE RAHUL DILIP	MALE	M. SC.	BOTANY	GOVT. VIDARBHA INSTITUTE OF SCIENCE AND HUMANITIES, AMRAVATI

Dr. D. D. Khedkar Workshop Coordinator



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Web Site: www.shivajiscamt.org

To, Date: 15<sup>th</sup> January, 2018

The Principal

Kind Attention: The Head, Dept. of Botany,

The Head, Dept. of Zoology,

The Head, Dept. of \_\_\_\_\_

Subject: Four Day's Hands-on Workshop on Genome and Plasmid Isolation, PCR, RFLP and Primer Designing

Respected Sir,

Department of Botany, Environmental Science and Central Instrumentation Cell, Shri Shivaji Science College, Amravati, in association with Cerebro Scientific, Navi Mumbai is organizing 'Four Day's Hands-on Workshop on Genome and Plasmid Isolation, PCR, RFLP AND PRIMER DESIGNING' during 17<sup>th</sup> to 20<sup>th</sup> January, 2018. (Specially scheduled including two holidays to avoid academic loss of the students)

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Following are the Hands-on Experiments to be conducted:

- 1. Genome Isolation
- 2. Plasmid Isolation,
- PCR,
- 4. RFLP
- 5. Primer Designing

The information brochure is attached for your kind perusal and circulation among the students. You are requested to advocate the said workshop to the students of your institution.

We hope to have the kind cooperation to make this workshop fruitful for our students.

Thanking you in anticipation

We remain,

Yours faithfully,

Dr. D. D. Khedkar

Organizing Secretary

Four Day's Workshop

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3.

Dr. V. G. Thakare

Principal

Shri Shivaji Science College, Amravati





#### FOUR DAYS HANDS - ON WORKSHOP

#### ON

## GENOME & PLASMID ISOLATION, PCR, RFLP & PRIMER DESIGNING

FROM 17<sup>TH</sup> TO 20<sup>TH</sup> FEBRUARY, 2018

#### JOINTLY ORGANISED BY

DEPARTMENT OF BOTANY, ENVIRONMENTAL SCIENCE AND CENTRAL INSTRUMENTATION CELL SHIVAJI SCIENCE COLLEGE SHIVAJI NAGAR, AMRAVATI — 444603 (M.S.), INDIA

NAAC Accredited with Grade 'A' with 3.13 CGPA and UGC Awarded College with Potential for Excellence Identified by DST for Grants under FIST and Sant Gadge Baba Amrayati University as 'Lead College'

&

CEREBRO SCIENTIFIC

NAVI MUMBAI - 410210 (M.S.), INDIA

## **Our Inspiration**



Shikshan Maharshi and Krushiratna

## Dr. Panjabrao Alias Bhausaheb Deshmukh

Founder President

## Shri Shivaji Education Society

Shivaji Nagar, Amravati - 444 603 (MS), India

''व्ँद जुँटाकर गंगा वहांने की, कि तुने कमाल बंजर धरती पर बीज बॉकर शिवाजी संस्था रूपी वृक्ष किया विशाल। बहुजन को अवसर-पथ देकर किया उन्हें निहाल है मानवजाँती के राजहंस तुज़े कोटी-कोटी प्रणाम।।''

#### SHRI SHIVAJI EDUCATION SOCIETY, AMRAVATI

The **Shri Shivaji Education Society, Amravati** is a premier educational institution of Central India with branches in all the districts of Vidarbha in Maharashtra. It is registered as a Public Charitable Trust (R.N. F/89). Its Founder President was the late **Dr. Panjabrao Alias Bhausaheb Deshmukh** (First Union Minister of Agriculture, Govt. of India) who established various schools, colleges, hostels and other teaching and technical institutions and devoted all his energy for strengthening and enlarging the activities of the Shri Shivaji Education Society, Amravati.

The Society was registered in December 1932. In 1958, it had one primary school, seven middle schools and eight colleges. Today it runs 40 Senior Colleges, 54 Jr. Colleges, 80 Middle Schools, 12 Training Institutes and 51 Hostels mainly in the region of Vidarbha but also in other parts of the state. The educational institutions cover areas like Agriculture, Arts, Bio-technology, Computers, Education, Engineering, Horticulture, Information Technology, Law, Medicine, Micro-biology, Physical Education and the Pure Sciences. It also runs a Polytechnic for boys and girls at Amravati.

The Shivaji Education Society was founded by Dr. Panjabrao Alias Bhausaheb Deshmukh in 1931-32. Along with other members, Bhausaheb devoted himself to educate the people by establishing school and colleges far and wide in the Vidarbha. The Society was awarded the "Dr. Babasaheb Ambedkar Dalit Mitra Award" in 1993-94 by the Govt. of Maharashtra. In the year 1999-2000, the Society was awarded by the 'Gadge Maharaj Memorial Award', on 5<sup>th</sup> September, 2000.In the year 2011, Society was awarded by the "Leadership Award for Excellence in Education" (Feb 11, 2011) and "Maharashtra Nirmata Award" (May 2, 2011).The Govt. of Maharashtra declared the Society as the "Best Administered Society" in the state and awarded it a cash award of Rs. 1 Lakh. In its citation, the State Government formally recognized the seminal contribution made by the Society in the field of education and cultural advancement.

#### SHRI SHIVAJI SCIENCE COLLEGE, AMRAVATI

With the introduction of Science faculty in Shri Shivaji Arts and Commerce College, Amravati in 1958, is it separated from parent institute as an independent Shri Shivaji Science College, Amravati in 1969. Now Shri Shivaji Science College, Amravati evolved as Premier Institution for imparting formal education in the Science stream and is affiliated with Sant Gadge Baba Amravati University, Amravati. College conveniently accessible from all parts of Amravati city has spacious and evergreen campus. College offers Junior, Under Graduate, Post Graduate and Research education in Science. College has permanent, fulltime, competent staff, research guides with all state of art facilities for science education and research in different science disciplines. The college is NAAC re-accredited "A Grade" College with CGPA 3.13 in third cycle. The College has also earned a special reputation for being conferred with the status of a "College with Potential for Excellence" by the UGC for second phase. Additional feathers in the crown of the college are - identification by Department of Science and Technology, GoI for grants under FIST and Sant Gadge Baba Amravati University's nomination as "Lead College" for its area. The College is also credited by Rajiv Gandhi Science and Technology Commission with the sanction of grants of Rs. 2.5 Crore to setup an institution as "Science and Innovation Activity Centre".

## Shri Shiyaji Science College, Amrayati – 444 603 (M. S.) – INDIA Central Instrumentation Cell (C.I.C.)

#### **ADVISORY COMMITTEE**

S.N.	Name	Designation	Position
1.	Dr. V. G. Thakare	Principal, Shri Shivaji Science College, Amravati	Chairman
2.	Dr. G. N. Choudhari	Prof. and Head, Department of Chemistry	Member
3.	Dr. V. B. Bhatkar	Head, Department of Physics	Member
4.	Dr. H. S Lunge	IQAC Coordinator	Member
5.	Dr. S. P. Ingole	Head, Department of Environmental Science	Member Coordinator

#### WORKING COMMITTEE

S. N.	Name	Designation	Position
1.	Dr. V. G. Thakare	Principal, Shri Shivaji Science College, Amravati	Chairman
2.	Dr. S. P. Ingole	Head, Department of Environment Science	Prof. In Charge
3.	Dr. P. R. Mandlik	Associate Professor, Department of Chemistry	Member
4.	Dr. G. A. Wagh	Associate Professor, Department of Zoology	Member
5.	Dr. D. D. Khedkar	Associate Professor, Department of Botany	Member
6.	Dr. P. A. Nagpure	Associate Professor, Department of Physics	Member
7.	Mr. Satish Dashore	Central Instrumentation Cell	Technical In-Charge

#### WORKSHOP ORGANIZING COMMITTEE

S. N.	Name	Designation	Position
1.	Dr. V. G. Thakare	Principal, Shri Shivaji Science College, Amravati	Convener
2.	Prof. B. K. Dorkar	Head, Department of Botany	Co-Convener
3.	Dr. S. P. Ingole	Head, Department of Environment Science	Co-Convener
4.	Dr. D. D. Khedkar	Associate Professor, Department of Botany	Organizing Secretary
5.	Dr. G. A. Wagh	Associate Professor, Department of Zoology	Joint Secretary
6.	Dr. G. B. Hedawoo	Associate Professor, Department of Botany	Treasurer
7.	Dr. T. B. Wankhede	Associate Professor, Department of Botany	Member
8.	Dr. D. V. Hande	Associate Professor, Department of Botany	Member
9.	Dr. R.C. Maggirwar	Assistant Professor, Department of Botany	Member
10.	Prof. K. J. Gawai	Assistant Professor, Department of Env. Science	Member

#### HANDS-ON WORKSHOP IN MOLECULAR TECHNIQUES & BIOINFORMATICS: 17-20 Feb, 2018

#### CENTRAL INSTRUMENTATION CELL (C.I.C.)

Central Instrumentation Cell (C.I.C.) of Shri Shivaji Science College, Amravati is established by the funds provided by University Grand Commission (UGC), New Delhi. To cater the needs of research and developmental activities of all departments within campus and also to serves the needs of researchers from Universities, Research Institutions, Industries and farmers from all over the country. Central Instrumentation Cell has facilities to carry out various analytical, spectroscopic measurements, chromatography and sample characterization by visual and photographic analysis. C.I.C. has state-of-the-art in analytical facilities, experienced faculties to conduct various scientific researches, workshops and trainings. The following table provides Analytical Instruments available in C.I.C. of Shri Shivaji Science College, Amravati– 444 603 (M.S.), India.

Sr. No.	Name of Instrument	Model No./Specifications	Company/Brand
1.	Atomic Absorption Spectrophotometer (AAS)	AA – 7000	Shimadzu, Japan
2.	High Performance Liquid Chromatography (HPLC)	UFLC ■ SPD − 20A (Prominence UV/VIS detector) ■ LC − 20AD (Prominence Liquid Chromatography)	Shimadzu, Japan
3.	FT-IR Spectrophotometer (FTIR)	IR Affinity – 1	Shimadzu, Japan
4.	Ultraviolet and Visible Absorption Spectrophotometer (UV-VIS)	UV – 1800	Shimadzu, Japan
5.	Polymerase Chain Reaction (PCR)	Veriti 96-Well Thermal Cycler	Applied Biosystems, California
6.	Gel Documentation	E-Gel Imager	Life technologies, California
7.	Trinocular Axio Lab.A1 Fluorescence Microscope with Digital Camera	Axio Lab A1 (with Measurement Software)	Carl-Zeiss, Germany
8.	Trinocular Stemi 2000 Stereo Zoom Microscope with Digital Camera	Stemi 2000(with Measurement Software)	Carl-Zeiss, Germany
9.	Trinocular Phase Contrast Microscope with Digital Camera	Primostar HAL	Carl-Zeiss, Germany
10.	Transition Temperature measurement Setup for Superconducting Sample	Indosaw, INDIA	Indosaw, India
11.	Analytical Balance	AUX 200 (Accuracy 0.01)	Shimadzu, Japan

The users can avail these facilities by submitting the samples along with the duly filled requisition form for a nominal charge.

## FOUR DAY'S HANDS ON WORKSHOP ON GENOME AND PLASMID ISOLATION, PCR, RFLP AND PRIMER DESIGNING

#### 17TH TO 20TH FEBRUARY, 2018

Department of Botany, Environmental Science and Central Instrumentation Cell, Shri Shivaji Science College, Amravati, in association with Cerebro Scientific, Navi Mumbai has organized 'Four Day's Hands on Workshop on Genome and Plasmid Isolation, PCR, RFLP AND PRIMER DESIGNING'. The prime objective behind organizing this workshop was to train upcoming Post Graduate Students and researchers in Modern Tools of Molecular Biology, Biotechnology and Bioinformatics. The workshop involved hands on training on Genome and Plasmid Isolation, PCR, RFLP and Primer Designing.

This workshop had a target group of B. Sc. III and Post Graduate Students of Life Sciences. The course content of this workshop was delivered with hands on opportunity to every participant. Personal working with the modern expensive instrumentation was great learning experience for all the students.

The workshop was inaugurated under the chairmanship of Hon'ble Dr. V. G. Thakare, Principal, Shri Shivaji Science College, Amravati at the hands of Hon'ble Dr. N. J. Chikhale, Principal, Shri Shivaji Agriculture College, Amravati. Workshop Co-conveners Dr. S. P. Ingole, HoD Environmental Science and Prof. B. K. Dorkar, HoD Botany with Dr. D. Khedkar, Workshop Organizing Secretary and Dr. Mandar Karkhanis, Director, Cerebro Scientific, Navi Mumbai were present on the dias.

Overall 50 students participated from Rashtra Sant Tukadoji Maharaj Nagpur University, Gondwana University and Sant Gadge Baba Amravati University. Participants from 15 college attended the workshop.

Hands on sessions along with the theoretical information sessions were conducted for all the four days with rigorous schedule from morning 9.00 am to 6.00 pm. Participants isolated DNA from their very own biological material i.e. buccal cavity mouthwash and plasmid from E.coli bacteria. Isolated DNA was amplified by PCR and analysed further for RFLP. Primer designing session was also conducted at facility available at computer department. Participation certificates were issued to all the participants after successful competition of the workshop.



**Inaugural Session of the Workshop** 





Participants on Working Platform

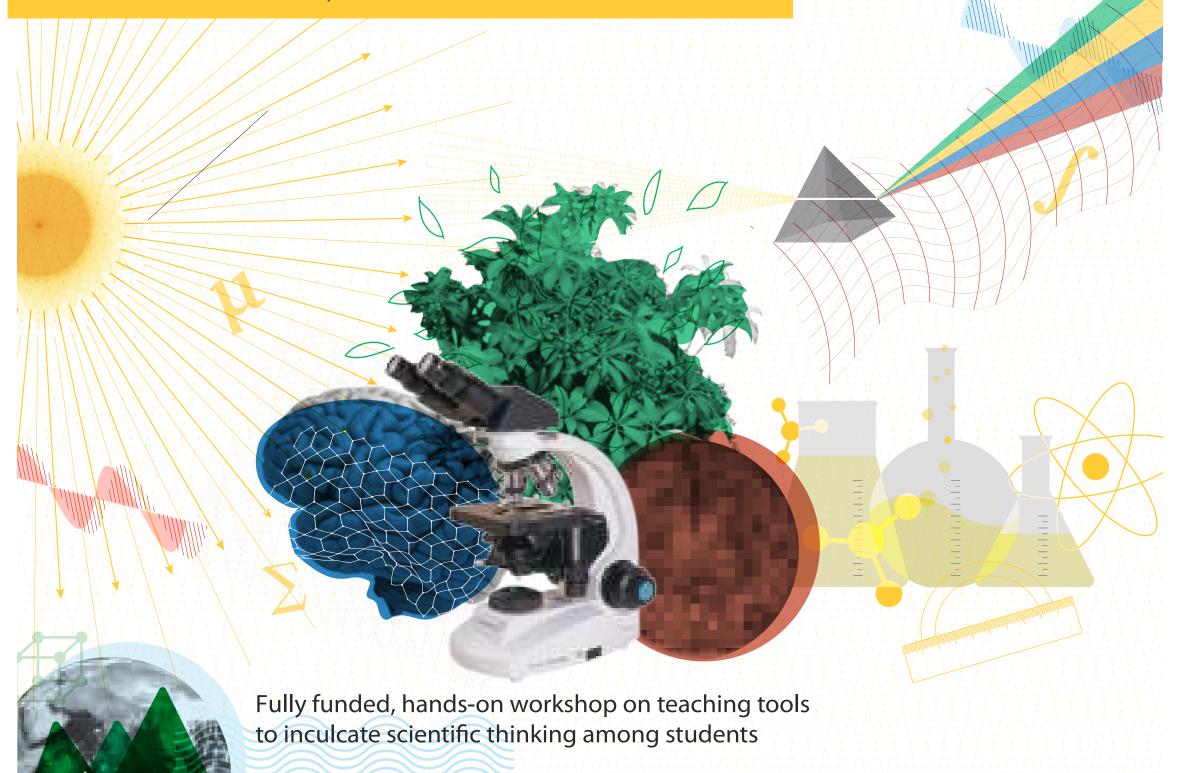


**Group Photo after Valedictory Function** 

# PEDAGOGY WORKSHOP

FOR UNDERGRADUATE AND POSTGRADUATE SCIENCE AND MATHEMATICS TEACHERS

Shri Shivaji Science College, Amravati, Maharashtra from June 26-28, 2018



The workshop will introduce teaching methods that focus on the process of science rather than information, and help students develop critical thinking and problem-solving abilities. This will also be a platform to network with peers and to get information on funding opportunities.

Facilitators trained by a team of experts from UK will be trainers in this workshop. Open to teachers of UG/PG courses in any stream of science or mathematics. There is no registration fee. Participants may be paid some travel allowance.

Organisers Centre of Excellence in Science and Mathematics Education of IISER Pune; Sponsors DBT, Govt. of India;

Knowledge partner Newton Bhabha Fund, British Council; Local Organisers:Shri Shivaji Science College, Amravati

Email: sonudin@gmail.com

For information and updates: http://www.iiserpune.ac.in/outreach/coesme



**PARTNERS** 







## MHRD, DST, DBT & IISER, PUNE SUPPORTED PEDAGOGY WORKSHOP

For Undergraduate and Post Graduate Science and Mathematics Teachers

June 26 - 28, 2018

Organized at: Shri Shivaji Science College, Amravati, Maharashtra

## WORKSHOP COMPLETION REPORT

#### :Organizer:

Centre of Excellence in Science and Maths Education (CoESME)
IISER, Pune, MS, INDIA

#### :Sponsor:

Department of Biotechnology, Govt. of India

#### :Knowledge Partner:

Newton Bhabha Fund and British Council

#### :Local Organizer:

Shri Shivaji Science College, Amravati, MS, INDIA

#### PARTNERS:















Shri Shivaji Education Society, Amravati's

#### SHRI SHIVAJI SCIENCE COLLEGE

SHIVAJI NAGAR, AMRAVATI, MS, INDIA

NAAC accordited by 'A' grade with a CGPA of 3.13 (Third Cycle)

DGC Awarded College With Potential For Excellence (Second Phase)

Hentified by DST for grants under FIST and

Sant Gadge Balo Americal University as "Lead College"

white a jiscamt @ grantLeont 0721-2660855 / 2665485

#### Salient Features :-Curricular aspects :

B.Se. :- 13 combinations (Botany, Chemistry, Computer Science, Geology, Environmental Science, Mathematics, Microbiology, Physics, Statistics, Vocational Biotechnology, Vocational Computer Application, Zoology.)

BCA:-(Bachelor of Computer Application)

M.Sc.:-Botany, Chemistry, Computer Soft Ware, Env. Science, Physics, Zoology & Bioinformatics UGC Sponsored Innovative Course:- P.G. Diploma in Ground Water Exploration & Water Shed Management.

#### Career Oriented Program (UGC)

Cosmetology
Clinical Laboratory Technology
Modern Horticulture & Landscaping.
Astronomy & Astrophysics
Eco-Tourism & Wild Life Photography

#### Infrastructure Facilities

Separate UG /PG / Research Labs with state
of art facility.
Enriched Library with 22,000 books.
Internet B/B connectivity throughout campus
Well Furnished Girls Hostel
Badminton Court with facility of flood lights
Fully equipped air conditioned Sir C. V. Raman Hall
Ambient campus with mapped flora
Medico - Botanical Gurden

#### Research

Botany, Chemistry, Geology, Mathematics, Microbiology, Physics, Statistics, Zoology,

#### Central Instrumentation Cell

Consultancy for PCR, HPLC, FTIR, AAS, UV-Vis Gel Doc, and Microphotography

#### Best Practices

Guardian Teachers Scheme, Academic Audit.

Dress Code, Campus Monitoring.

Functional IQAC, Students representatives on important college committees.

#### Ambiance Learning Environment

Lush Green Garden / Lawns. Eye cutching landscaping. Medicinal park with poly net house.



### Regional Pedagogy Workshop for Undergraduate and Post Graduate **Science and Mathematics Teachers**

## 26th-28th June 2018

Local Organizer: Shri Shivaji Science College, Amravati, Maharashtra

### **WORKSHOP COMPLETION REPORT**

The national policy on Education was framed in 1986 and modified in 1992. Since then several changes have taken place that calls for revision of the policy. The Government of India would like to bring out a National Education Policy to meet the changing dynamics of the population's requirement with regards to quality education, innovation and research, aiming to make India a knowledge superpower by equipping its students with the necessary skills and knowledge and to eliminate the shortage of manpower in science, technology, academics and industry.

Education means all round development of students. Actually, the teaching should be an interesting thing for the teachers and the students as well. Our colleges should be an interesting place for teaching- learning experiences, but it seems that today's education is totally examination oriented. The students mug up the contents of the syllabus and write it down in the examination to score marks. These days there is a rat race amongst the students for marks. In this education system the most challenging part in front of us is do the students acquire knowledge? Are they becoming skilled personnel? Are they using their creativity while learning? Are they applying knowledge in real life? So, to resolve these problems the teachers should update themselves to fulfil the changing needs of students with regard to education. They should adapt new methodologies in order to help students because students should become active learners rather than passive recipients of information.

The Shri Shivaji Education Society is one of the prestigious educational hubs in Maharashtra. It is established by Hon'ble Panjabrao Deshmukh in 1931 and today, its branches are widespread in entire Vidarbha fulfilling the dreams of the founder president for a better life of the Vidarbha peasantry. Likewise, from its inception, Shri Shivaji Science College, Amravati has played a pioneer role in academics, research and extension activities. It is actively involved in organizing conferences, workshops and seminars to enhance our education system and provide the opportunity to our students to explore by their own. There is a dearth of good teachers who can ensure quality education and come forward to face the challenges in education. With this context "The Regional pedagogy workshop for undergraduate and post graduate science and mathematics teachers" was organized at Shri Shivaji Science College, Amravati, Maharashtra from 26<sup>th</sup> to 28<sup>th</sup> June. This workshop was supported by MHRD, DST, DBT and IISER Pune. The workshop was designed to train the teachers to use research based pedagogical tools (RBPT) in the classrooms to augment critical thinking and research skills. It has introduced research based pedagogical tools that focus on the process of science rather than facts. This new approach to teaching can improve the quality of undergraduate and postgraduate education. This was also an opportunity for professional development of all the teachers and chance to interact with their counterparts from various colleges and educational experts from India and learn from each other's experiences.

The participants were selected by IISER, Pune. The applicants were also asked to submit the abstract about why they want to attend this workshop? After the scrutiny in total 60 lecturers from five different universities of Maharashtra have been selected to attend the workshop and they have participated in three days of training programme. The participants trained in previous national level workshops by a team of experts from UK were the trainers for this workshop.

#### LIST OF TRAINERS

- Lead trainer: Dr. Varaprasad Kolla, Prof and Head, School of Life Sciences, ITM University, Raipur
- 2. Dr. Sanjay Chakane, Arts, Science and Commerce College, Indapur, Tal: Indapur, Dist: Pune.
- 3. Dr. Rashmi Sharma, Acharya Narendra Dev College, Delhi University, Delhi.
- Dr. Parvathi Rangasamy, Vellalar College for Women (Autonomous), Thindal, Erode,
   Tamil Nadu- 638012
- 5. Dr. Shilpa Jain, Programme Manager, CoESME, IISER, Pune
- 6. **Observer:** Dr. Anupma Harshal, K. C. College, Mumbai

#### **WORKSHOP SCHEDULE**

**Day 1:** Introduction of RBPT– State goals for the workshop; identify characteristics we want to develop in our students; present fundamentals of the RBPT approach

Time	Activity	Format & Venue	Trainer	
9:00	Registration			
10:00	<b>Inaugural session -</b> Remarks by organizers and coordinators			
10.30	<b>Three in three -</b> Expectations & learning outcomes from the workshop	Presentation		
10:45	<b>Effective Pedagogy -</b> Various pedagogical methods to foster the skills and attitudes we expect in our students.	Presentation	Dr. P. Kolla	
11:15	Coffee/Tea			
11:30	Ideal student (Prepare and display poster) Participant groups prepare posters to list interests, attitudes, work habits, and ambitions of a perfect student.	Presentation and Group activity	Dr. Chakane	
12.30	Learning through Questioning Review the goals of RBPTs in terms of learning and Questioning	Presentation	Dr. Parvathi	
1:00	Lunch			
2.00	Paper Planes activity (Prepare and display a poster) Framing questions that require classroom activity: designing empirical methods, recording and reporting observations.	Presentation and Group activity	Dr. Rashmi	
3.15	Learning's from Paper Planes activity Feedback from peers and trainers. Coffee/Tea	Trainer led discussion	Dr. Rashmi	
3:45	Tea/coffee			
4:00	Student research and autonomy: Background, concept of student research and autonomy	Presentation	Dr. Chakane	
4.30	Introduction to RBPTs  Background, concept of student research and autonomy, what is RBPT, 5Rs & goals of RBPT, difference between RBPT & project	Presentation	Dr. Rashmi	
5:00	Preparing to create an RBPT Form subject-wise groups and select topic for RBPT preparation	Group activity Subject Rooms	All trainers	

Day 2 – Development of RBPT– Create a draft RBPT; seek and give peer feedback

Time	Activity	Format	Trainer
9:30	Elements of RBPT Revise structure of RBPT and its six elements	Presentation	Dr. P. Kolla
10.30	RBPT Examples Discussion about RBPT exemplars and presentation on one example of RBPT from each subject	Group activity and Presentation	(Exemplars) All trainers (one example each from their respective subject)
11:30	Coffee/Tea		
12.00	Preparing RBPTs Participants to list topics from the syllabus where RBPT can be implemented. Participant groups select and develop a concept for a RBPT suitable for their subject and resources.	Group activity Subject Rooms	All trainers
1.00	Lunch		
2.00	<b>Teaching tools for the learning</b> - Panda Activity	Presentation	Dr. Parvathi
2.30	Prepare a Poster for the RBPT Each group prepares a poster to describe their RBPT	Group activity Subject Rooms	
3.30	Coffee/Tea		
4.00	Preliminary review of Posters Feedback from peers and trainers. Review posters based on six elements and provide feedback to refine and improve their RBPTs:	Group activity; Trainer-led discussion Subject Rooms	All trainers
5.00	Coffee/Tea		
5.30	CoESME talk and Funding opportunities (Open to all Undergraduate Science teachers)	Presentation	Dr. Shilpa

Day 3-Presenting the RBPT - Display posters for RBPTs, Plan strategies and action for implementation of RBPTs in the classroom

Time	Activity	Format	Trainer
9:30	Refining RBPTs Review of insights arising from Day 1&Day 2. Participant groups refine RBPTs based on learnings review, Finalize their posters.	Group activity Subject wise	All trainers
11.00	RBPT Poster presentation	Participant interaction Display area	All trainers
11.00	Coffee/Tea		
11.30	<b>Presentation of RBPT</b> by each group and Evaluation by peers (5-minute presentation + 2-minute feedback)	Plenary	All trainers
1.00	Lunch		
2:00	Listing the possible RBPTs from curriculum List out at least 2-3 RBPTs from your syllabus and discuss implementation strategies.	Group activity	All trainers
2.30	RBPT implementation at colleges – Hurdles & Strategies Discuss blockers for implementation of RBPT. IISER Suggest enablers for achieving the goals of empowered students.	Trainer-led discussion	Dr. Shilpa Dr. Anupama
3.00	Summing up; Setting SMART targets (Action planning) Assess the goals set from the workshop. Prepare action plan for adopting RBPT. Form support groups and resource banks.	Plenary	Dr. P. Kolla
3.30	Closing and group photo	Plenary	-
4.00	Coffee/Tea		

#### Day One:

On 26<sup>th</sup> June 2018 the registration of the participants started at 9:00 am in the morning. All the participants even though travelled from distant places were present on time at the venue.





**Registration Process** 

**Breakfast arrangements for Participants** 

The workshop was inaugurated at the hands of Hon'ble Dr. Muralidhar Chandekar, Vice-Chancellor, Sant Gadge Baba Amravati University, Amravati in the Sir C. V. Raman Hall of Shri Shivaji Science College. The inaugural ceremony was chaired by Hon'ble Dilip babu Ingole, Treasurer of Shri Shivaji Education Society, Amravati and among the other dignitaries on the dais were Dr. Varaprasad Kolla, Professor and Head, School of Life Sciences, ITM University, Raipur as a Lead trainer, Dr. Shilpa Jain, Programme manager, CoESME, Pune, Dr. V. G. Thakare, Principal, Shri Shivaji Science College and Dr. Dinesh Khedkar, organizing secretary RBPT workshop. The Convener of the workshop Dr. V. G. Thakare delivered his welcome speech which was followed by an introductory speech by Dr. Shilpa Jain, to brief about the role of CoSME and aim of organizing the workshop. In his inaugural speech Dr. Muralidhar Chandekar, Vice-Chancellor, Sant Gadge Baba Amravati University, Amravati reiterated the need to find solutions to the challenges in the field of education. He had given emphasis on student centered education system. In his presidential address Hon'ble Dilip babu Ingole, Treasurer of Shri Shivaji Education Society, Amravati had focused on the issues related with the current education system and specially emphasized on role of teachers to face the challenges and improve our education system. The inaugural ceremony was anchored by Dr. Dinesh Khedkar, organizing secretary of RBPT workshop.



Anthem



Inaugural Session started with University Introductory Remarks: Dr. V. G. Thakare, Principal, Shri Shivaji Science College, Amravati.



About CoESME: Dr. Shilpa Jain, CoESME, IISER, Pune



**Inaugural Address:** Dr. Muralidhar Chandekar, Vice-Chancellor, Sant Gadge Baba Amravati University, Amravati



**Presidential Speech:** Hon'ble Dilipbabu Ingole, Treasurer, Shri Shivaji Education Society, Amravati



**Anchoring and Vote of Thanks:** Dr. Dinesh Khedkar, Organizing Secretary RBPT workshop

The inaugural session was followed by the presentation of Dr. Varaprasad Kolla on the topics "Three in three"-elaborating Expectations and learning outcomes from the workshop and "Effective Pedagogy"-details of various pedagogical methods to foster the skills and attitudes we expect in our students. The participants were asked to write the reason for attending the workshop. Many of them wanted to acquire RBPT skills and implement it in their own colleges to enhance their teaching methods and professional development too. They wanted to adopt a more student-centred approach and seek to change existing practice.





Dr. Varaprasad Kolla on the topics "Three in three"

After a tea break presentation and Group activity on "Ideal student" was conducted by Dr. Sanjay Chakane. In this session the groups of participants were asked to create a simple poster to show characteristics of their Ideal students and enlist interests, attitudes, work habits, and ambitions of a perfect student. This activity was planned to make the teachers aware regarding skills and attitudes of the students and they should consider it before dealing with any topic which should not be simply aimed to cover the syllabus.



"Ideal student" Session conducted by Dr. Sanjay Chakane.



Participants preparing poster depicting Ideal Student.

Participants after discussion had presented their posters. Following features of ideal students were mainly focused on many posters:

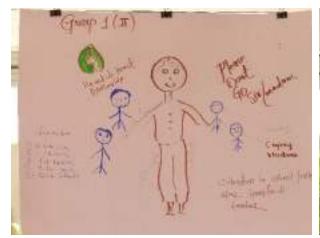
 Creative, Well rounded, Self-confident, Hungry for knowledge, Punctual, Communication skill (interactive), Social/cultural activities (co-curricular activities), Hardworking, Listener, sensible, curious, trustworthy, rebel, logical thinker, critic, good human.





"Ideal student" Presentation by participants

**Poster Presentation** 





**Ideal Student: Posters by Participants** 

The other part of the activity was to focus "what would the perfect teacher look like from the point of view of our students"

Here the participants highlighted following characters of Teacher:

 Knowledgeable, flexible, caring, committed, role model, visionary, passionate, good listener, simplify the subject, approachable, well disciplined, good sense of humour, work for betterment of students.

Entire discussion culminated into the common thought that "Education works best when Teaching matches learning. Teachers match students".

This activity was followed by talk of Dr. Parvathi on "Learning through Questioning" (Review the goals of RBPTs in terms of learning and Questioning). She has explained the importance of asking questions to guide students from known to unknown. She has given some examples of RBPT and maths software's. RBPT should be content driven, process driven and student oriented i.e. to make students autonomous during learning. It must contain 5Rs-Recognize, Require, Refine, Reward and Report.





Dr. Parvathi: "Learning through Questioning"

Dr. Rashmi: Paper Planes activity

After lunch, Presentation and Group activity was directed by Dr. Rashmi on Paper Planes (Prepare and display a poster). All the participants enthusiastically participated in this activity by designing various types of paper planes with the use of material supplied to them and prepared the poster of the activity showing features of the paper plane like longest distance travelled in three attempts, take-off and landing, focused on durability etc. followed by discussion on it where participants narrated the whole story involving curious comments in much depth. The main aim of this activity was to know that such a small activity has great meaning about framing questions that require classroom activity: designing empirical methods, recording and reporting observations.

Excellent presentation was given by Dr. Chakane on the topic "Student research and autonomy" with examples of RBPTs he had implemented in his college. The goal was to know about the background, concept of student research and autonomy. In continuation with it Dr. Rashmi also showed examples of RBPTs, 5Rs and goals of RBPT. Many a times there is confusion between RBPT and research projects hence she had clearly pointed out the differences. Later on, all the trainers formed subject-wise groups of the participants and asked them to select topic for RBPT preparation.

#### Day Two:

The second day of the workshop had started with the Presentation by Dr. P. Kolla on "Elements of RBPT" he had revised the structure of RBPT and its six elements. This was followed by RBPT Examples in which the group activity and Presentation on one example of RBPT from each subject was done with at length discussion.

After tea break for the group activity Participants were asked to list topics from the syllabus where RBPTs can be implemented. Participant groups were separated in their Subject Rooms to develop a concept for a RBPT suitable for their subject and resources. This group activity was followed by delicious Lunch.

An interesting activity was conducted by Dr. Parvathi with her Presentation on -Teaching tools for the learning - Panda Activity. All the participants enjoyed to do this activity in which a sketch of bear was given and the participants were asked to draw panda from it. All the drawings of Panda were displayed for reviewing and discussion was focused on how to guide the students on the path from known to unknown.





Panda Activity: Participants viewpoint

Dr. Anupama, Summarizing Activity

#### Prepare a Poster for the RBPT

Each group was then split to respective Subject Rooms for preparing a poster to describe their RBPT. After Coffee the preliminary review of Posters was done followed by feedback from peers and trainers. Actually, there was Trainer-led discussion to review posters based on six elements and provide feedback to refine and improve their RBPTs.





Life Science



**Mathematics** 



Chemistry

**Physics** 

After a Tea break, very important information was delivered by Dr. Shilpa with her Presentation on- CoESME talk and Funding opportunities (Open to all Undergraduate Science teachers)

She had given every detail information regarding various training programmes organized by CoESME and different agencies which provide grants for the projects. Many queries were raised by the participants regarding research projects submitted to UGC which were very well answered by the trainers.

#### Day Three:

The third day started for Refining RBPTs. Mainly from the review of insights from Day one and Day two. The Participant groups refined their RBPTs based on learning reviews and finalized their posters as per subject. All the groups enthusiastically presented their posters in the display area. During tea all the trainers reviewed them and after photograph they were displayed one by one for presentation by each group and evaluation by peers. Five minutes time was given for the presentation and two minutes for discussion/feedback to each group. All the presentations were thoroughly observed by the peers and some suggestions were given to the respective groups. After lunch break the participants listed at least 2-3 possible RBPTs from curriculum followed by discussion on its implementation strategies.

#### RBPT POSTERS WITH THE GROUP OF PARTICIPANTS





















### RBPT PRESENTATIONS BY THE GROUP OF PARTICIPANTS





The main task of the workshop was to discuss blockers for implementation of RBPTs. The delegates were asked to consider all the factors that would affect their progress towards producing a perfect student. The factors were split into two groups as Hurdles that impeded the progress and Strategies which promoted progress. The main hurdles included:

- Teachers not ready to change.
- Students seem to be uninterested.
- Limited time span.
- English/Language constrain.
- Summative pattern dominates.
- Lack of basic knowledge.

- Principal/Authority need to be convinced.
- All topics cannot be covered by RBPT.
- Disparity in students understanding.
- RBPT must be implemented from school level.

• Adaptability by teachers.













The best suggestions were given by Dr. Shilpa and Dr. Anupama as enablers in achieving the goals of empowered students.

While Summing up the workshop Lead trainer Dr. P. Kolla talked about Setting SMART targets (Action planning) and also assessed the goals set from the workshop to prepare action plan for adopting RBPT. This workshop was a step in the direction of changing science teaching to resemble more the process of doing science. The trainers emphasized that students must do an activity by themselves to learn and to motivate them one has to give them an attractive context. After Closing and group photo a valedictory programme was conducted. Dr. Vinod Bhatkar, Head, Department of Physics was the chairman and Dr. Prasad Wadegaonkar was the chief guest. The valedictory programme was also anchored by Dr. Dinesh Khedkar, organizing secretary RBPT. The feedback from the participants had shown that all of the participants were excited to implement RBPTs in their colleges and they were thinking how they could kindle the inherent curiosity of their students. Such workshops need to be organized frequently to update the skill of teachers. Some selected participants will get an opportunity to participate in a Level one workshop later that will focus on making them trainers for conducting similar trainings.



Dignitories on dais for Valedictory function



Feedback by: Ms. Shadi



Feedback by: Dr. Kavita Gour



Feedback by: Dr. Vishal Deshmukh



Feedback by: Dr. Banginwar



Feedback by: Dr. Shaukat Shah



Feedback by: Dr. Qureshi



Addresss by: Dr. Anupama



Addresss by: Dr. Shilpa



Addresss by: Dr. H. S. Lunge, IQAC Coordinator



Addresss by: Dr. Sanjay Chakhane



Addresss by: Dr. Parvathi



Dr. Prasad Wadegaonkar, Chief Guest



Dr. Prasad Wadegaonkar, Chief Guest



Presidential Address: Dr. Vinod Bhatkar



Vote of Thanks: Dr. Dinesh Khedkar

## : List of Participants:

S.N.	NAME	NAME OF THE COLLEGE
1.	ARSAD SWAPNIL	MAHATMA FULE MAHAVIDYALAYA, WARUD
2.	AWAGHADE S. W.	VIDYA VIKAS COLLEGE, SAMUDRAPUR
3.	BAGADE S. M.	ARTS AND SCIENCE COLLEGE PULGAON
4.	BANGINWAR Y. S.	ARTS AND SCIENCE COLLEGE, PULGAON
5.	BANSOD A. D.	RAJASHREE SHAHU SCIENCE COLLEGE, CHANDUR RLY
6.	BORKAR S. J.	GOVT. INSTITUTE OF SCIENCE, NAGPUR.
7.	CHOPDE S. A.	LAD COLLEGE, NAGPUR
8.	DABHADKAR DINESH	GOPIKABAI SITARAM GAWANDE COLLEGE, UMARKHED
9.	DESALE S. V.	R.C.PATEL INSTITUTE OF TECHNOLOGY, SHIRPUR
10.	DESHMUKH V. P.	JAGADAMBA MAHAVIDYALAYA, ACHALPUR CITY
11.	DHORAN VARSHA	SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI
12.	DHURATKAR M. D.	S. S. JAISWAL COLLEGE, ARJUNI MORGAON, DIST: GONDIA
13.	FUKE MAYURI ASHOKRAO	S.S.S.K.R.INNANI MAGHAVIDYALAYA, KARANJA (LAD)
14.	GOUR KAVITA SANDIP	PRIYADARSHINI J L COLLEGE OF ENGINEERING, NAGPUR
15.	GUDADHE SMITA	ARVINDBABU DESHMUKH MAHAVIDYALAYA, BHARSINGI
16.	INGALE SHYAM	SHRI SHIVAJI SCIENCE COLLEGE, AMRAVATI
17.	INGOLE S. P.	SHRI SHIVAJI SCIENCE COLLEGE, AMRAVATI
18.	KADAM P. M.	SHRI VYANKATESH ARTS, COMMERCE AND SCIENCE COLLEGE, DEULGAON RAJA, DIST. BULDANA
19.	KALE GOKUL BABARAO	G. S.COLLEGE, KHAMGAON DIST. BULDANA 444303
20.	KANERKAR U. R.	G S TOMPE ARTS COMMERCE & SCIENCE COLLEGE, CHANDUR BAZAR
21.	KASHMIRI Z. N.	DADA RAMCHAND BAKHRU SINDHU MAHAVIDYALAYA, NAGPUR
22.	KHALATKAR S. D.	SHRI MATHURADAS MOHOTA COLLEGE OF SCIENCE, NAGPUR
23.	KHEDKAR H. R.	S.S.S.K.R. INNANI MAHAVIDYALAYA, KARANJA LAD
24.	KHODKE S. P.	VINAYAK SCIENCE COLLEGE, NANDGAON (KH.)
25.	KUTEMATE N. B.	G.S.COLLEGE, KHAMGAON DIST.BULDANA 444303
26.	LANDE SMITA	LATE PUNDLIKRAO GAWALI ARTS & SCIENCE MAHAVIDYALAYA, SHIRPUR (JAIN), TQ. MALEGAON, DIST. WASHIM
27.	MAGGIRWAR R. C.	SHRI SHIVAJI SCIENCE COLLEGE, AMRAVATI

28.	MASRAM A. S.	L.A.D. & SMT. R.P. COLLEGE FOR WOMEN, NAGPUR
29.	METE V. G.	R.D.I.K & K.D. COLLEGE, BADNERA-AMRAVATI
30.	NAGPURE P. A.	SHRI SHIVAJI SCIENCE COLLEGE, AMRAVATI
31.	PADOLE PRAMOD	SHRI SHIVAJI SCIENCE COLLEGE, AMRAVATI
32.	PANCHBHAI D. S.	ANAND NIKETAN COLLEGE, WARORA
33.	PATIL S. P.	ADARSHA SCIENCE, BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY
34.	PATIL Y. S.	SHRI. D. M. BURUNGALE SCI. & ARTS COLLEGE, SHEGAON
35.	PODDAR A. R.	DRB SINDHU MAHAVIDYALAYA, NAGPUR
36.	QURESHI S. O.	ADARSH SCIENCE J B ARTS AND BIRLA COMMERCE MAHAVIDYALAYA, DHAMANGAON RLY.
37.	RATHOD S. B.	HON. BALASAHEB JADHAV ARTS, COMMERCE AND SCIENCE COLLEGE, ALE, DIST . PUNE
38.	RAUT N. M.	ARVINDBABU DESHMUKH MAHAVIDYALAYA, BHARSINGI
39.	RAWANKAR A. S.	JAGADAMBA MAHAVIDYALAYA, ACHALPUR
40.	SAYARE P. P.	GOVT. INSTITUTE OF SCIENCE, NAGPUR.
41.	SHADI P. J.	R.D.I.K. AND K.D. SCIENCE COLLEGE, BADNERA.
42.	SHAH SHAUKAT	ANAND NIKETAN COLLEGE OF SCIENCE, ARTS AND COMMERECE, WARORA
43.	SWARGIYE S. D.	SUNDARABAI GOPALSWAMI MAHILA JUNIOR COLLEGE, ACHALPUR CAMP, PARATWADA
44.	TAYADE R. R.	GOVT. INSTITUTE OF SCIENCE, NAGPUR
45.	UKE S. J.	J. D. PATIL SANGLUDKAR MAHAVIDTALAYA, DARYAPUR
46.	VERMA S. R.	ANAND NIKETAN COLLEGE, ANANDWAN WARORA
47.	WADEGAONKAR V. P.	DEPARTMENT OF BIOTECHNOLOGY, SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI
48.	WAGH P. J.	ANAND NIKETAN COLLEGE, ANANDWAN
49.	WAKULKAR A. P.	ANAND NIKETAN COLLEGE, ANANDWAN, WARORA, DIST. CHANDRAPUR
50.	YAWALE P. R.	G. S. TOMPE ARTS, COMMERCE & SCIENCE COLLEGE, CHANDUR BAZAR
51.	YEOTKAR M. R.	SMT. R. S. COLLEGE, ANJANGAON
52.	YEOTKAR S. D.	VIDYA VIKAS ARTS, COMMERCE & SCIENCE COLLEGE SAMUDRAPUR, DIST. WARDHA



## Shri Shivaji Science College

Date: 3<sup>rd</sup> February, 2018

: Dr. Panjabrao alias Bhausaheb Deshmukh Founder E-mail: Shivajiscamt.office@gmail.com Hon. Shri Harshwardhan P. Deshmukh President Web Site: www.shivajiscamt.org

Principal Dr. V.G. Thakare (O) 2660855; (Fax) 2665485;(R)2551400

Ref.No. SC/1622 / collab. / 2018

To,

Dr. Apurva Barve

Centre Coordinator, CoESME,

IISER, Pune

Email: coesme@iiserpune.ac.in

Prof. L. S. Shashidhara, <u>ls.shashidhara@iiserpune.ac.in</u> **Kind Attention:** 

Reference: Personal communication during RBPT workshop at IIT, Gandhinagar

**Subject:** Request for collaboration in organization of Workshop

Dear Dr.,

This communication has reference of discussion between Dr. Dinesh Khedkar and Dr. Apurva Barve during RBPT workshop at IIT, Gandhinagar, as well as interaction with Prof. L. S. Shashidhara during 26th Biennial Conference of The Asian Association For Biology Education (SEPTEMBER 20 – 24, 2016) at International Centre, Goa, India organized by Dr. Dinesh Khedkar as Organizing Secretary.

We are very much happy while forwarding this letter of intent to collaborate in organization of a Six Day's workshop for undergraduate teachers (Botany and Zoology) entitled "Development of Pedagogical Tools to facilitate better learning experience at UG level" at Shri Shivaji Science College, Amravati during June 2018. Its pleasurable for us to note that, we are conducting Shivaji Vidnyan Parishad for High School teachers since last five years as an annual feature of Shri Shivaji Education Society, Amravati with the support of Homi Bhabha Centre for Science Education, Mumbai. In this form we are providing great academic feasts for teachers working at school level.

Shri Shivaji Science College, Amravati, MS is NAAC re-accredited "A Grade" College with CGPA 3.13 in Third Cycle. The College has also earned a special reputation for being conferred with the status of a "College with Potential for Excellence" by the UGC for second phase. Additional feathers in the crown of the college are - identification by Department of Science and Technology, GoI for grants under FIST and Sant Gadge Baba Amravati University's nomination as "Lead College" for its area. We are also credited by Rajiv Gandhi Science and Technology Commission with the sanction of grants of Rs. 2.5 Crore to setup an institution as "Science and Innovation Activity Centre".

Being pioneer for many of the innovative ventures in academics and research, we are lending hands to extend the activity of CoESME to impart pedagogical training to teachers as well as hands on science education to students from various schools, colleges, universities and research institutes. We are planning to conduct a workshop for college teachers to support them for professional growth and satisfy essential requirement for Career Advancement Scheme. In this regard we are submitting project proposal to DST and DBT for support. To make this workshop milestone event in the upgradation of our education system emphasized in Pandit Madan Mohan Malaviya National Mission for Teachers and Training under the ambit of the Ministry of Human Resource Development.

Therefore, to make this event remarkable and out of box in the trend of routine workshops, we invite your kind collaboration in planning and execution. Please accept this letter of intent and convey the suitability of team from CoESME to participate as resource persons.

Looking forward to launch new modalities in T, L and E practices through this workshop.

With kindest regards,

Yours sincerely,

Dinesh D. Khedkar Organizing Secretary

Shri Shivaji Science College, Amravati

Shri Shivaji Science College, Amravati



Accredited by NAAC with "A" grade (very good) with a CGPA of 3.13

SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S

## RI SHIVAJI SCIENCE COLLEGE

College with Potential for Excellence.

Shivaji Nagar, Morshi Road, Amravati - 444 603, M.S.

Dr. Panjabrao Alias Bahusaheb Deshmukh Founder President Shri. Harshavardhan Pratapsinh Deshmukh

Dr. V. G. Thakare Principal

E-mail: shivajiscamt.office@gmail.com Website: www.shivajiscamt.org

Off.: (0721) 2660855; Res. (0721) 2551400, 2553130, Comp. Dept.: (0721) 2551366 Fax: (0721)2665485

Date:

Ref. No. SC/

Ref. No. SC/3378/W. Shop/2018

Date: 14th September, 2018

To.

Dr. Apurva Barve

Centre Coordinator, CoESME.

HSER, Pune

Email: coesme@iiserpune.ac.in

Kind Attention: Dr. Shilpa Jain, Programme Cordinator.

Subject:

Submission of the Final Report and Audited UC /SE for Regional Workshop on

Research Based Pedagogical tools held at Amravati

Dear Dr.,

As per the kind approval and the directives from of CoESME, IISER, Pune, we have conducted Regional Workshop on Research Based Pedagogical Tools for UG and PG Teachers. Its was held during 26 - 28 June, 2018 at this institute.

The detailed report with the audited SE and UC is enclosed herewith for your kind perusal.

We request you to kindly sanction the expenditure incurred upon the said workshop and reimburse the remaining amount of the sanctioned grant to the institutional credit.

Looking forward to have similar collaboration in future to organize fruitful events in benefit of the higher education.

With kindest regards,

Yours sincerely,

ccredited

wim

Dinesh D. Khedkar

Organizing Secretary

Shri Shivaji Science College, Amrava

V. G. Thakare Principal

Shri Shivaji Science College, Amravati

#### Encl:

- Detailed Report (2 Copies)
- Statement of Expenditure (2 Copies)
- 3. Utilization Certificate (2 Copies)



Accredited by NAAC with "A" grade (very good) with a CGPA of 3.13

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SHRI SHIVAJI SCIENCE COLLEGE

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President :

Dr. Panjabrao Alias Bahusaheb Deshmukh Shri. Harshavardhan Pratapsinh Deshmukh

Principal Dr. V. G. Thakare

E-mail; shivajiscamt.office@gmail.com Website: www.shivajiscamt.org

Off.: (0721) 2660855; Res. (0721) 2551400, 2553130, Comp. Dept.: (0721) 2551366 Fax: (0721)2665485

Date:

Ref. No. SC/

## Statement of Expenditure referred to in para 8 of the Utilization Certificate

Showing grants received the CoESME, IISER, Pune and the expenditure incurred during the period from 1st April 2018 to 31st March 2019 for the Regional Workshop on Research Based Pedagogical tools for Undergraduate Teachers at Shri Shivaji Science College, Amravati, MS conducted during 26th - 28th June 2018.

S.N.	Head	Sanctioned Amount	Expenditure
1	FOOD	157500	162500
2	Accommodation	42000	55000
3	Participant Travel	55000	21000
4	Trainer Travel and Stay	95000	101209
5	Miscellaneous	50000	48000
	Total	399500	387709

Dr. D. D. Khedkar PRINCIPAK INVESTIGATOR

CHARTERED ACCO



Dr. V. G. Thakare Shri Shivaji Science College. OF AMRAVATI.



Accredited by NAAC with "A" grade (very good) with a CGPA of 3.13



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President

Dr. Panjabrao Alias Bahusaheb Deshmukh Shri, Harshavardhan Pratapsinh Deshmukh

Principal

Dr. V. G. Thakare

E-mail: shivajiscamt.office@gmail.com Website: www.shivajiscamt.org

Off.: (0721) 2660855; Res. (0721) 2551400, 2553130, Comp. Dept.: (0721) 2551366 Fax: (0721)266548

Ref. No. SC/

#### Utilization Certificate

(for the financial year ending 31st March 2019)

(3,99,500 Rs.)

1.	Title of the Project/Scheme:	Regional Workshop on Research Based Pedagogical tools for Undergraduate Teachers		
2.	Name of the Organization:	Shri Shivaji Science College, Amravati		
3.	Local Organizer of the workshop:	Dr. Dinesh D. Khedkar, Associate Professor in Botany, Shri Shivaji Science College, Amravati - 444603		
4.	Proposal sanction order date:	19th March, 2018		
5.	Amount Sanctioned:	Rs. 3,99,500		
6.	Amount received:	Rs. 2,00,000		
7.	Other receipts/interest earned, if any, on the grants:	Nil		
8.	Actual expenditure (statement of expenditure is enclosed):	Rs. 387709		
9.	Unspent balance refunded, if any	Nil		
10.	Balance amount at the end of Workshop to be reimbursed (5-8):	Rs. 1,87,709		
11.	Workshop Conducted during	26th - 28th June 2018		

- Certified that the amount of Rs. 387709 mentioned against col. 8 has been utilised on the 1. project/scheme for the purpose for which it was sanctioned and that the balance of Rs. 187709/ is to be reimbursed from IISER.
- Certified that I have satisfied myself that the conditions on which the grants-in-aid was 2. sanctioned have been duly fulfilled/are being fulfilled and that I have checked that the money was actually utilised for the purpose for which it was sanctioned.

Dr. D. D. Khedkar

PRINCIPAK INVESTIGATOR

CHARTERED ACCOUNTANT

For V. S. JADHAO & ASSOCIATES ccountants

Dr. V. G. Thakare Principal

hivaji Science College,

AMRAVATI.

ijay Jadhao Partner



#### WORKSHOP ON RESEARCH BASED PEDAGOGICAL TOOLS FOR UG AND PG TEACHERS

## LIST OF PARTICIPANTS

- SHRI SHIVAJI SCIENCE COLLEGE, AMRAVATI

#### 26 - 28 JUNE, 2018

#### ATTENDANCE SHEET

S.N.	NAME	NAME OF THE COLLEGE	27 Morning	27 Afternoon	28 Morning	28 Afternoon
١.	ARSAD SWAPNIL	MAHATMA FULE MAHAVIDYALAYA, WARUD	81	<u>\$</u>	1	1
2.	AWAGHADE S. W.	VIDYA VIKAS COLLEGE, SAMUDRAPUR	00	10	Te -	Ø.
3.	BAGADE S M	ARTS AND SCIENCE COLLEGE PULGAON	Mis	my	my	ghiz
4	BANGINWAR Y.S	ARTS AND SCIENCE COLLEGE, PULGAON	& -	8	1 Sep	8
5.	BANSOD A. D.	RAJASHREE SHAHU SCIENCE COLLEGE, CHANDUR RLY	Suc	Africa	A De	Sha
6.	BORKAR S. J.	GOVT. INSTITUTE OF SCIENCE, NAGPUR.	B	1	. B	-
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8.	DABHADKAR DINESH	GOPIKABAI SITARAM GAWANDE COLLEGE, UMARKHED	1 De la constante	2 Bridge	Grand	2 Opposite
9.	DESALE S V	R.C. PATEL INSTITUTE OF TECHNOLOGY, SHIRPUR	652	0	· 62	-632

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13.	FUKE MAYURI ASHOKRAO	S.S.S.K.R.INNANI MAGHAVIDYALAYA, KARANJA (LAD)	01/s	27/6/18	281610	28/0/8
14.	GOUR KAVITA SANDIP	PRIVADARSHINI J L COLLEGE OF ENGINEERING, NAGPUR	Ches.	Charles	CUZA	CAN
15.	GUDADHE SMITA	ARVINDBABU DESHMÜKH MAHAVIDYALAYA, BHARSINGI	Alalia.	State of the state	STAIN.	CE FOR
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8.	KADAM P.M.	SHRI VYANKATESH ARTS, COMMERCE AND SCIENCE COLLEGE, DEULGAON RAJA, DIST. BULDANA	Partie	27/05/13	81/30/80	28 00 18
9.	KALE GOKUL BABARAO	G.S.COLLEGE, KHAMGAON DIST,BULDANA 444303	1001 pola	Man and	Contra Salara	JOA ALINA
20.	KANERKAR U R	G S TOMPE ARTS COMMERCE & SCIENCE, COLLEGE, CHANDUR BAZAR	ट्राह्में ह	116/18	196/18	रखंडाहि

21.	KASHMIRLXN	DADA RANCHAND BAKHRU SINDHO MAHAVIDI ALAYA, NAGPER	R	8E	R	X
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7.	RATHOD'S. B.	HON, BALASAHEB JADHAV ARTS, COMMERCE AND SCIENCE COLLEGE, ALE, DIST, PUNE		3/	4	85/
8.	RAUT N. M.	ARVINDBABU DESHMUKH MAHAVIDYALAYA, BHARSINGI	1	₩_	À	*
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#### SHRI SHIVAJI SCIENCE COLLEGE, AMRAVTI

#### TRAINING PROGRAMME FOR NONTEACHING STAFF ON ERP MODULE

Office automation software has been renewed with the Cloud Based ERP CCMS by 'Master Soft' ERP solutions, Nagpur. The training programme by Master Soft was organised on 18/05/2018, for the office nonteaching staff on the various modules such as online Students Admission, Fee Collection, Students data administration, internal examinations, Finance and Accounts, Payroll, Purchase and store, web portal etc. The Principal, senior teachers related with admission process and examination had attended the programme.

The following teachers and nonteaching staff were present:-

- 1. Dr. V.G. Thakare, Principal
- 2. Dr. H.S. Lunge, IQAC Coordinator
- 3. Dr. V.B. Bhatkar,
- 4. Dr. W.S. Barde
- 5. Dr. P.R Nagpure
- 6. Dr. U. V. Kale
- 7. Dr. S. K. Rithe
- 8. Sh. M.M. Bhonde
- 9. Sh. Pramod Bhande
- 10. Sh Vonod Bure
- 11. Sh. Mahesh Patil
- 12. Sh.G.R Malasne
- 13. Sh. Pravin Gondikar
- 14. Sh S. G. Raut
- 15. Sh. Manish Wankhade
- 16. Sh. S. R. Hirde
- 17. Sh. Bharat Bute
- 18. Sh. M. P. Tayade
- 19. Sh. Tushar Borkar









# Installation & Training Certificate

This is with reference to your Work order No. SC/2018 dated 09/04/2018. We have installed Cloud Based ERP CCMS – Centralized Campus Management System in your College. We have given necessary training to staff of your College Shri Shivaji Science College, Shivaji Nagar, Morshi Road, Amravati – 444 603. We assure further service support as per quotation terms & conditions.

Sr. No.	Modules	Installed Yes/No	No. of PC	Satisfactory Working Yes/No
1	One Time Data Conversion	749	n	7
2	Online Admission Payment Gateway	Yes	7	7
3	One Time Cloud Setup	Yes	n	Y

HOD/Receiver	Engineer Startes PTT
	For MasterSoft ERP Solutions Pvt. Ltd., . 1456-A, New Nandanwan, Nagpur
Principal	
Date: 18 5 18	

#### Most Trusted ERP Partner for Educational Campuses

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#### Accredited by NAAC with 'A' grade with a CGPA of 3.13 College with Potential for Excellence

# Shri Shivaji Science College

Shivaji Nagar, Morshi Road, Amravati - 444 603 M.S.

\* Founder : Dr. Panjabrao alias Bhausaheb Deshmukh \* President : Hon.Sh.Harshwardhan P.Deshmukh

Principal : Dr. V.G. Thakare

E-mail: Shivajiscamt.office@gmail.com

Web Site: www.shivajiscamt.org

(O) 2660855; (Fax) 2665485;(R)2551400

Ref.No. SC/

/2018

Date: 18 / 95 /2018

To,

MasterSoft ERP Software Pvt.Ltd. Nagpur - 9 (MS)

Subject : Supply of Cloud based ERP CCMS-Centralized Campus Management System

Dear Sir.

As per your offer dated 19.03.2018& subsequent discussion in meeting held on 26.03.2018, it is decided to accept your offer of Cloud based ERP solution with all terms & conditions. Kindly create cloud setup with following details for our college.

SN	PARTICULARS	PRICE (IN RS)		
01	One time data conversion charges	Waived		
02	One time payment gateway integration with your bank accounts & fees head mapping	Rs. 25,000/- + 18% GST		
03	One time cloud setup charges	Rs. 25,000/- + 18% GST		
	MODULES			
1	On line Student Registration			
2	Student Admission & Fees			
3	Student Administration			
4	Student Attendance with Mobile Apps			
5	Examination & Result	Rs. 85/- + 18% GST		
6	Library Management System	Per Year Per Student		
7	M-OPAC (Mobile base OPAC)	(Payble in the month of		
8	Financial Accounting	November at the student		
9	Cheque Printing	strength on 01st October		
10	Payroll & Leave			
11	Stores Management System			
12	SMS-Short Message Service (25000) per year			
13	SMS/Email Integration with all software			
14	Dashboard, Alumni, Mobie Apps for student & staff	S Charles		

#### Deleverables:

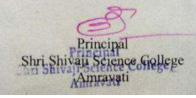
Creation of Cloud Setup for the Institute

On boarding of Students & All users and creation of users

User Training & fully support

Service Support: Intial three days on site. Subsequently on-line.

You are requested to immediately do the needful





Accredited by NAAC with 'A' grade with a CGPA of 3.13 College with Potential for Excellence

Shivaji Nagar, Morshi Road, Amravati - 444 603 M.S.

· Founder

: Dr. Panjabrao alias Bhausaheb Deshmukh

E-mail: Shivajiscamt.office@gmail.com

\* President : Hon.Sh.Harshwardhan P.Deshmukh

Web Site: www.shivajiscamt.org

Principal

: Dr. V.G. Thakare

(O) 2660855; (Fax) 2665485;(R)2551400

Ref. No. SC/ 1922/A/c. /2018

Date: 18 /0 5/2018

To,

Mr.Hitesh Ashwani Razorpay Online Fees Collection Solution

Subject: Regarding bank a/c details for payment gateway.

R/Sir

Please find the following bank account details of our college for online fees collection.

Bank Name	A/c Number	IFSC Code
Central Bank of India, Gadge Nagar, Amravati	1412698103	CBIN0283126
Central Bank of India, APMC Branch, Amravati	3597461551	CBIN0283248
Dr.Panjabrao Deshmukh Urban Co-operative Bank Ltd., Irvin Chowk, Camp Road, Amravati	001020600000211	HDFCOCPDB01

5 Shri Shi yaji Sajence College



redited by NAAC with 'A' grade with a CGPA of 3.13 College with Potential for Excellence

# Shri Shivaji Science College

Shivaji Nagar, Morshi Road, Amravati - 444 603 M.S

Founder : Dr. Panjabrao alias Bhausaheb Deshmukh

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E-mail: Shivajiscamt.office@gmail.com Web Site: www.shivajiscamt.org

(O) 2660855; (Fax) 2665485;(R)2551400

Ref. No. SC/ 1923 / Sms . / 2018

Date: 18/05/2018

To,

MasterSoft ERP Solutions Pvt. Ltd

Subject: Undertaking for Eligibility to get Transactional SMS account for User ID (shivajiscamt.office@gmail.com) as per NCCPR Regulation.

We, Shri Shivaji Science College, Amravati hereby give an undertaking that as per the provisions in Section 2 (ab) of NCCPR regulation and subsequent amendments, our company falls under the category eligible for Transactional SMS route (kindly enclose supporting document/licenses), using which we would be able to send sms communication to our registered users/subscribes even if the subscriber has registered in NCCPR registry for blocking commercial sms on his mobile. User ID (shivajiscamt.office@gmail.com) provided by chartered Information Systems Private Limited, is being used by Shri Shivaji Science College, Amravati for sending messages to opt-in mobile numbers only. The messages are transactional in nature and do not contain any commercial or unsolicited communication.

Further, any complaints/grievances'/claims/penalties, whether legal or commercial with regard to the usage of the said service shall be the sole responsibility of Shri Shivaji Science Chartered Information System Private Limited is hereby being College, Amravati indemnified from all complaints/grievances'/claims whether legal or commercial Shri Shivaji Science College, Amravti for the usages of transactional bulk SMS Account with ID (shivajiscamt.office@gmail.com)

We understand that on receiving any complaints for transactional sms we had sent, Chartered Information System Pvt. Ltd. May disconnect our services with immediate effect and we agree to pay all the legal cost and penalties incurred on account of the complaint.

Chartered Information System Pvt. Ltd. Is authorized to block the bulk sms account and forfeit the sms credit balance in the account at any point in time if our account is found to be carrying traffic other than transactional traffic, even if there is no formal complaint for violatin of NCCPR norms.

Required Sender id (SSCAMT):

Encl: Supporting documents such as registration certificate/licenses.

**Best Regards** 

Signature:

Name: Designation:

Frincipal

Shri Shivaji Science College,

Amravati



# Installation & Training Certificate

This is with reference to your Work order No. SC/2018 dated 09/04/2018. We have installed Cloud Based ERP CCMS – Centralized Campus Management System in your College. We have given necessary training to staff of your College Shri Shivaji Science College, Shivaji Nagar, Morshi Road, Amravati – 444 603. We assure further service support as per quotation terms & conditions.

Sr. No.	Modules	Installed Yes/No	No. of PC	Satisfactory Working Yes/No
1	One Time Data Conversion	749	2	7
2	Online Admission Payment Gateway	Yes	n	7
3	One Time Cloud Setup	Yes	n	γ

HOD/Receiver	Engineer 18 S P1
	For MasterSoft ERP Solutions Pvt. Ltd., 1456-A, New Nandanwan, Nagpur
Principal ————————————————————————————————————	
Date: 18 5 18	*

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# PROPOSAL

For

CCMS<sup>©</sup> - Centralized Campus Management System



Shri Shivaji Science College, Amravati

Submitted By





Date: 19.03.2018

To,

The Principal,

Shri Shivaji Science College, Amravati

SUB: REVISE PROPOSAL FOR CCMS CLOUD BASED MIS SYSTEM

Respected Sir.

Greetings!!! Thank you very much for considering us for ERP System. As per our telephonic discussion as on dated 19-03-2018 I have submitting a revise final proposal to your college.

With experience of 20+Years of ERP implementation in 1700+ Institutions exclusively in India, we are the most successful and Trusted Educational ERP partners.

With efforts of five years we have developed advanced - Cloud based version of the existing MIS. The new Cloud based ERP - CCMS - Centralized Campus Management System integrates all the Schools, Colleges of Education Society at Society level. Therefore society management gets combined reports of all the Schools & colleges at Society level.

#### Features & Advantages of Cloud ERP

- Centralized Integration at Society level.
- Student can pay fees on-line thru their net banking avoiding Queues at College. You get instant payment. No cash handling at cash counters.
- College staff & students all have 24 x 7 access to & minimizes the need of IT infrastructure.
- CCMS ERP supports all the latest technologies Cloud, Mobile App, Payment Gateway (On line payment), SMS & Emails alerts, RFID...
- CCMS offers easy integration and virtually unlimited scalability.
- Since your Application & data is on cloud, your data is 100% secured.
- Data export to Excel, Word, Text, PDF......
- No need to have expensive licenses & Minimum IT infrastructure is required.
- You always have access to latest ERP automatically.

# Important Modules of CCMS - Centralized College Management System,

- Admissions & Fees
- Students Administration
- Examination (Internal)
- Finance & Accounts
- Payroll
- Purchase & Stores
- Hostels
- Library
- Web Portal & Alumni
- Mobile Apps

#### Most Trusted ERP Partner for Educational Campuses

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# FINANCIAL OFFER

Cloud ERP are costly & charges are on per student per month basis. However, since you are our existing prestigious User, We are offering a low cost yearly charges based best Financial Offer for your kind consideration

SN	PARTICULARS	PRICE (In Rs.)	
01	One Time Payment Gateway Integration with your Bank Accounts & Fees Head Mapping	Rs. 25,000/- + 18% GS	
02	One time Cloud Setup Charges	Rs. 25,000/- + 18% GST	
	MODULES		
	COMPULSORY BASIC MODULE	S	
01	On Line Student Registration		
02	Student Admission & Fees Online / On Counter	Rs. 60/- + 18% GST Per Student Per Year [PSPY]	
03	Student Administration		
	OPTIONAL MODULES		
04	Student Attendance (with Mobile Apps)	Rs. 10/- + GST PSPY	
05	Result Management System (11th, 12th & Univ. College Exam)	Rs. 15/- + GST PSPY	
06	Financial Accounting	Rs. 15/- + GST PSPY	
07	Cheque Printing	Rs. 10/- + GST PSPY	
80	Payroll Management System	Rs. 15/- +GST PSPY	
09	Leave Management System	Rs. 10/- + GST PSPY	
10	Stores Management System	Rs. 10/- + GST PSPY	
11	Dashboard, Alumni, Mobile Apps for Student & Staff	Rs. 10/- + GST PSPY	
12	Guest Visitor Management System	Rs. 10/- + GST PSPY	
13	Library Management System (With M-OPAC)	Rs. 15/- + GST PSPY	

#### Final Discounted Group Offer:

# Compulsory & Optional Modules - 01 to 13 = Rs. 85/- + GST Per Student per year

Note: 1) This offer is lowest & below the actual cost and is only valid for first 15 clients.

#### Deliverables:

- Creation of Cloud Setup for the Institute
- On boarding of Students & All Users and Creation of Users
- User Training & Support
- Free 25000 SMS Per Year

#### Most Trusted ERP Partner for Educational Campuses

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Nagpur ● Mumbal ● Pune ● Latur ● Aurangabad ● Karad ● Jalgoan ● Delhi ● Bangalore ● Mangalore ● Hyderabad ● Jaipur ● Gos ● Madurai ● Surat ● Ahmedabad ● Jamshedpur ● Ralpur ● Patna ● Agartala ● Alzawala ● Imphal ● Srinagar ● Bhopal ● Indore ● Bhubaneswar ● Chennal ● Villupuram



# MasterSoft

# ERP Solutions Pvt. Ltd. Accelerating education...

# Terms and Condition:

- Minimum Billing of 2700 Student per year.
- Offer Validity 30 days only.
- Service support : Initial 7 days training on site. Subsequently support will be Online through internet
- Payment: 100% in advance due to Cloud application
- Minimum Contract Period 60 Month.
- Payments once made are non-refundable.
- After proper training, it is sole responsibility of Institute to use the ERP modules. We shall extend necessary service support.
- Since this will be a totally new Cloud based ERP involving multiple agencies such as Payment gateway company, Banks, Cloud hosting company, there can be initial challenges to all the Users & Students. With our experience, we shall attend the same & give appropriate solution to each issue. After few days, Users & student will understand the advantages of Cloud ERP.
- All Standard Functionalities & Reports of procured modules will be available to Institute in this cost. Any New Functionalities & Reports required to be developed will be charged extra depending on the Scope.
- For Online fees collection necessary formalities / agreement needs to be signed by Institute.
- Free Hotel / Guest House Accommodation may kindly be provided to MasterSoft team by College the onsite visit.
- The fees paid by student are collected by Payment Gateway company and is directly Transferred to your college Bank accounts. MasterSoft only gets details of Transactions. Therefore Queries related to Fees transaction are to be directly dealt with the payment gateway Provider and MasterSoft have no role & responsibility in solving the transaction related queries.
- From second year onwards, there will be a price escalation clause of minimum 15% applicable on the last year rates.
- Cloud standard working rules are defined & mention by us on our website iitms.co.in. We
  request you to study the same & if acceptable place the PO on us.

#### **Duties & Responsibilities**

- In-premise IT infrastructure to be provided by Institute as usual.
- Healthy Continues good Bandwidth in-campus Internet Connection from multiple agencies is most essential need of Clod based ERP.
- Users will be given user training for their respective modules and to make them understand the processes. As per requirement we will also support through online tools from our Head Office for extending our best support.
- Additional Onsite Support will be charged separately.



# MasterSoft

ERP Solutions Pvt. Ltd. Accelerating education

- Institute will ensure that the key personnel are available during Demonstrations & Training.
- Infrastructure for Training sessions to be organized by Institute and Centralized Location.
- The price quoted is for the central Cloud setup & standard CCMS ERP only.

Always Assuring the Best Service.

Yours Sincerely

a beam Karde

(Balram A. Korde) V.P. Sales & Marketing For MasterSoft ERP Solution Pvt. Ltd.

Cell # 0888 888 3394, Whatsapp # 0982 217 0098, Phone # 0712 - 2713714, 2713702

Web # iitms.co.in E-mail # balramkorde@iitms.co.in

# CCMS<sup>©</sup> 3.0

# Centralized Campus Management System

# Cloud ERP for -

- CBSE, State, IB & International Schools
- UGC Affilated Arts, Science, Commerce, Law, Education...Colleges
- Engineering, Medical, Management, Pharmacy Colleges
- Autonomous Colleges



Cloud Based Integrated ERP for Schools- Colleges of any Campus



# CCMS

# **Centralized Campus Management System**

Centralized Campus Management System CCMS is a cloud ERP useful for

- > Any School such as State / CBSE / IB / Residential
- > University affiliated colleges Arts, Commerce, Science, Law, Edu...,
- > Autonomous Arts, Commerce, MBA.... Colleges & Coaching classes
- Non-Autonomous Engineering-Pharmacy coll, Polytechnics, and ITI.

An educational Trust / Society can use this cloud for effective centralized management of all its Schools, Colleges, Polytechnics, ITI located in one / multiple Campuses. It provides a total online solution for computerization of all administrative activities. It computerizes:

- > Student life cycle comprising of: Online Admissions & Fees, Academics, Class Attendance, e-Learning, Examination & Results, Training & Placement, Hostel, Bus Management & Library.
- > Faculty life cycle: Teaching & Class attendance, Valuation & Marks entry, HRMS - Payslip, Online Leave, Service Book, PF & Income tax.....
- > School & College Administration : Accounts & Finance, Purchase & Stores, HRMS, Web & Alumni, Library, Transportation, Dispatch.....

Role based Access: Each User of ERP - Staff & Faculty, Students & Parents, Management members & officers get secured login for restricted access to ERP, depending upon their role, authority & responsibility.

### Features and Advantages of Cloud Based ERP CCMS:

- > Large & flexible CCMS Cloud Suitable for any type & size of campuses.
- > Instant Implementation. Go live within a week.
- > Reliable backup and recovery system.
- > No initial capital investment in ERP. SAAS low cost monthly billing.
- > No need to invest on high cost servers, UPS, high speed internet...
- > 24x7 Role based secured Access to all from anywhere
- > Minimizes manual efforts and improves efficiency.
- > Supports latest Technologies Online Payment, Mobile Apps, Biometric & RFID, SMS/Email Alerts, QR Barcode, etc.
- > Provides precise & secured information to end users for better decision.
- > Campus automatically have access to latest ERP.
- > Single integrated ERP for all schools / colleges / polytechnic of society

#### **CCMS MODULES**

- > Fees > Admission
- > Administration
- > Attendance

- > Examination
- > Bus
- > HRMS
- > Finance

- > Stores
- > Hostel
- > Website
- > SMS

- > Library
- > e-Learning Mobile App
- > Other

In this Brochure brief details of important modules are described.

## **ADMISSIONS & FEES**

This module computerizes complete Admission & Fees proc of fees can be collected & fees reports can be generated. Scho can define its courses offered, medium, faculties, Fee Cash types, Caste category & fees heads in each cashbook. Following are computerized

All type College ks. Fee ctivities

ISIS

- > Prospectus Sale & Follow up Reports
- > Online/Incampus Registration by Student For Admission
- > Admission Process Dynamic Merit list/Lucky Draw/First co
- > Admission counseling and Demand Creation
- > Fees Collection Admission, Development, Exam , Bus, misc, Fa 91...
- > Fees Collection Modes Online (thru Payment Gateway), Co. Cash & Bank, Bank Challan
- > Challan reconciliation
- > Admission Cancellation > Receipt cancellation > Fee Refund
- > Fees write-off > Monthly Fee Installment in Schools
- > Scholarships > Student Fine Definition and Collection
- > Defining Fees Masters Receipt Books & its Fee Heads, session-wise, Course wise & Payment type-wise standard Fees, Cash Books

#### **Features**

- > Centralized Fees Collection for Multiple Schools / Colleges
- > Admission with Zero / Excess Fee amount > Subjectwise Fees
- > SMS & Email alerts for Fee Transactions

#### Reports

- > Fee Receipts / e-receipts
- > Daily / Monthly detailed / Summary Fees Collection Register
- > Student Ledger & Outstanding Fee report
- > Bank Reports > Admission report & vacant position
- > Admission / Receipt Cancellation Report
- > Scholarship Reports > Caution Money Reports
- > Graphical MIS Report: Student Reports and Fees Reports

#### STUDENT'S ADMINISTRATION

In this module Student's Admission details such as - Academic, personal, last exams, subjects offered, certificates & documents received etc. are updated and roll No., section & Enrolment No. can be allotted. Throughout year students dues/ fines, Academic performance can be updated. Following activities are also performed.

- > Defining/updating Subjects & subject groups opted by students
- > Student Documents Collection / Issue
- Updating student data such as Payment Type Change / Course change
- > Student semester-end/year-end Promotion

#### Reports

- > Student Admission Register > Attendance sheet > Identity card
- > Student list Course-wise, subject-wise, medium-wise....
- > User designed selected field select student Reports
- > Reports / data export for : Univ. / NAAC / State Board / CBSE / DTE / NBA
- > Society Level Statistical Reports > Institute Budget Reports
- > MIS Reports a/c to Faculty, medium, Gender, Caste, Fees category....
- > Certificates TC, Bonafide, Migration, NOC, DOB, attempt .... etc

#### STUDENT ATTENDANCE

Attendance Module computerizes / automates process of student attendance by faculty & generation of necessary reports & alerts to parents / Management. It features -

- > Defining Theory and Practical Batches
- > Attendance Configuration ( Present, Absent, Half day, On duty etc)
- > Defining Class Teacher Time Table
- > Manual Attendance Entry by Faculty / Operator: Daily once / Detailed lecturer-wise, Monthly single entry
- > Bio-metric & RFID Attendance Integration with Bio-metric devices
- > Atcovation Mobile App Based Attendance Daily / Lecturer-wise by faculty
- > Option to mark attendance for Guest Lectures / Extra Lectures

#### Reports

- Attendance Report Detailed& Summary, Studentwise / Classwise /
   Faculty wise > Warning Letters
- > Poor attendance & Undertaking Report for parent
- > SMS/email alerts to Students/Parents-Daily/Weekly/Monthly
- > Attendance Analysis Report according to Student, Subject, Faculty, Class

#### **EXAMINATION**

Computerizes all the Examination conduction & result calculation work of any School or College. Useful for various patterns of Examinations such as – State / CBSE / IB Schools; Affiliated Colleges / Autonomous colleges, CBCS Exam pattern...

Examination Module covers all the procedures related to examination management right from Bulk Exam Registration, Exam Roll No. allotment, defining Exam Time Table, Exam Mark Entry....... to Result Processing & declaration / publishing of Results. It also provides: flexible marks entry pattern – such as multiple test, flexible rules for Grading / Gracing / Passing / Exemption / Condonation / Distinction/Higher Grading system and Result calculation. For CBSE Schools – Exam module supports Scholastic / Coscholastic Exam pattern.

#### Reports

- > Subject-wise / Class-wise exam Registration Count / List
- > Exam Form > Exam Time Table & Hall Tickets
- > Exam Room allocation and Signature Sheet
- > Mark Entry Reports: Subject wise /Batch wise/Section wise
- > Grade Cards & Tabulation Register
- > Result MIS Class Topper, Subject Topper, Gazettes & Statistics

#### **BUS MANAGEMENT**

Manages Student Bus Activity. Define following:

- > Bus Details General, Servicing, Insurance > Driver Details and History
- > Route Fees and Pick Points > Bus Attendance
- > Fuel Challan System > Driver Leave & Approval
- > SMS Alerts to student / parents for Bus schedule change
- > On screen / SMS Alerts to User on expiry date of License, Insurance etc.

#### Reports

- > Bus I-Card > Route wise/Pick points wise Student list
- > Daily / Monthly Bus Attendance Report > Bus Analysis Report



#### HRMS HUMAN RESOURCE (ESTABLISHMENT & PAYROLL)

HRMS computerizes employee related activities such as — Recruitmer service Book, Attendance, Leave, Training, Appraisal, Payroll & Inc. tax.

Monthly Payroll & Income Tax: Includes • User defined unlimite Earning & deductions heads & User defined rules for calculation of various pay heads like DA, HRA, CLA, and PT etc. • Monthly Pay bill supplementary bills • Income Tax calculation • PF & Loans

Payroll Reports: • Pay Slips & Salary certificate, Salary Register & Abstract • Bank Statement • Schedules of – PF, LIC, GSLI, PT, othe deductions • Income Tax Report & Form 16, 24Q • Employee's personal information reports • Junior College Reports • Annual Salary Reports • MIS Reports • according to - Pay scale, Designation, Departments, Caste category, etc.

Recruitment Process: • Vacancy creation — Define post & Number, Qualification & Experience, Reservation... • On-line applying by eligible candidates • Scrutiny • interview email • Conduct of interview rounds, marking & short-listing • Approval by authorities • Appointment letters

Attendance Management: • Registration of Employees on Biometric Readers • Integration of all Readers with local attendance Server • Transfer of Reader data to local Server & in-turn auto transfer to Cloud • Shift management – Define shift timings, late coming & early going rules, late mark leave rules • Calculation of monthly LWP • Attendance report – Monthly, login-logout time report, Attendance Muster

Leave Management: • Define leave types (CL,EL,ML,LWP,HPL,SPL, paternity / maternity, study ...) & Leave application Rules • Leave Opening balance record • On-line Leave application, sanction & Sanction order • On-duty Leave Application & sanction • Periodic crediting of leave • Carrying Balance leave to next year • User defined Flexible Leave sanction authorities & path • Leave cancellation / change • Calculation of monthly Leave & transfer to Payroll • Leave Reports

Employee Appraisal: • Multiple self Appraisal from for teaching, non-teaching employees & Officers • on-line Self Appraisal by Employee • Evaluation by authorities & grading for increments • Appraisal report

Service Book: • creation of new employee record • Entry of all service book entries such as - Personal memoranda , Appointment, Family, Qualification, Qualifying Services, Loan & advances, Nomination, Disciplinary action, Pay revisions & increments, Leave, Promotion & Transfer, LTC., Training & conferences attended / conducted....

#### CCM5" 3.0

#### FINANCE

Using this module, any number of Accounts (Cash books) can be maintained for any number of financial years.

- > Master creation Cash book, Ledger heads, Final a/c main & sub heads.
- > Receipt, Payment & JV entries & Voucher Printing
- > Fees entries direct transfer to accounts
- > Cheque Printing & Bank Reconciliation
- > Reports Vouchers, Cash/Bank/JV & Day book, Ledgers
- > Final Accounts—Trial balance, Balance sheet, Receipt & Payment, Income & Expenditure statement, Schedules

#### **STORES**

This module computerizes the complete stores data & transactions right from inception of the College and generates various reports online. Transactions related to purchase, issue & transfer of inventory can be computerized. The module is flexible & User can define any number of items, vendors, departments / sections etc. Following types of reports are generated.

#### Reports

- > Quotation Letter, Comparative statement, PO > Stock Ledger
- > Centralized / Departmental stock register
- > Current Stock Position
- > Daily goods receipt/issue register
- > Reorder level report
- > Department-wise value of total stock > Invoice wise balance item report

#### HOSTEL

Hostel module computerizes Hostel activities such as – Admissions, Fees, Mess allotment & monthly mess bills, Attendance etc.

- > Defining Hostel, Rooms, assts & Strength in each room, standard fee...
- > Hostel Admissions & fees > Admission Cancellation & refund
- > Hostel room, assets & Mess allotment > Monthly Mess Bill
- > Hostel student leave management > Guest Rooms
- > Six monthly / Yearly refund & recovery

#### Reports

- > Hostel-wise student list & Admission Register > Cancellation report
- > Hostel ID-Cards > Student certificates > Vacant Rooms Report
- > Attendance Report Hostel / Mess Daily/ Monthly
- > Hostel Fees & mess bill Collection Report > Room Assets Report

#### WEBSITE

We provide a elegant & professional website with following links.

- > Infrastructure Building, Classrooms, Library, Computer Center, Hostel, Sports, Bank & Post Office, Canteen, Shops
- > Academics Courses offered & Admission procedures
- > Teaching Departments Faculty, Lab, Facilities, R & D
- > About Us Mission, History, Management & Administration
- > People Faculty, Officers & staff, Students & Alumni
- > Achievements Awards, Collaborations & Donations
- > Events-Cultural, Conference, Seminar, Sports, Convocation
- > Dynamic Links Alumni, Faculty, News, Gallery & Feedback SMS & Email Solution, Contact us, Admin

#### LIBRARY MANAGEMENT SYSTEM

This is an integrated, multi-user package for the computerization of in house work of Library. LIB MAN provides free multilingual and ode font. This supports UHF RFID Library Automation. Lib Man multiple currency & Exchange rates. Data can be imported from the Markey of the Markey

Accessioning, Invoice processing & Payments • AACR2 Cate

. Binding, Write off & Stock Verification

Circulation - • B. T. records • Circulation • Reservation in Mains

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For Faculty - Creation of - Syllabus, Teaching plan, Lecture Notes ,Assignment, Question Bank, E-Library Links, Announcement, Test Exam from question Bank. Evaluation of Assignment and Answering the Questions of students.

For Student – Access – Assignments, Syllabus, Teaching Plan, Lecture Notes & e-library. Submission of Assignments, Appear for on-line test, Ask Questions & View Reply, participate in Forum & chatting.

Online Test – Faculty can create Descriptive & Objective Tests from question bank on selected topic by selecting questions manually or randomly and can define parameters of test - Date & time, duration....

#### Reports

> Syllabus, Teaching plan, Lecture Notes > Assignment & test Results > Answer Sheet Copy > Roll list with Photos

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- > To Faculty Notices, Holidays, Examinations, invigilation etc.



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# Year 2018-2019

#### Report

#### INTER-COLLEGIATE RESEARCH FESTIVAL - AVISHKAR-2018 TEACHER COORDINATOR WORKSHOP

It's a matter of immense pleasure that Hon. Vice Chancellor, Sant Gadge Baba Amravati University, Amravati has been nominated college for the organization of Amravati district level Avishkar -2018 as well as **Teacher coordinator workshop** at Shri Shivaji science College, Amravati.

The **Teacher coordinator workshop** was organized for bringing awareness in teacher coordinator about the objective of Avishkar, to promote and encourage the budding researchers to participate in Avishkar.It is essential to inculcate research culture and temperament among the budding research scholars. The aim of the workshop is inculcating research attitude among the students and motivating them to take up research works.

The event was organized at Shri Shivaji Science College, Amravati on Saturday, September 8 2018: 10.30 am. Dr. Dr. D.T. Ingole, Director, Board of Innovation, Incubation and Linkages Sant Gadge Baba Amravati University, Amravati inaugurated the festival, Dr. V.G. Thakare, Principal of Shri Shivaji Science College, Amravati presided over the function. Introductory remarks were express by, Dr. Ananad Aswar Co-ordinator, Avishkar cell, Sant Gadge Baba Amravati University Amravati and Dr.D.V. Hande District Coordinator proposed vote of thanks.

Resource persons were invited for the motivation of teacher coordinator. These are as follows:

Dr. D.T. Ingole Director, Board of Innovation, Incubation and Linkages Sant Gadge Baba Amravati University, Amravati	Dr. Anand Aswar Coordinator, Avishkar cell Sant Gadge Baba Amravati University, Amravati	Dr.Mrs. M.M. Chimote Dept of Marathi Sant Gadge Baba Amravati University, Amravati
Dr. D.Y. Chacharkar Dept of MBA Sant Gadge Baba Amravati University, Amravati	Dr. Prashant Gawande Dept of Botany Sant Gadge Baba Amravati University, Amravati	<b>Dr. C.M. Deshmukh</b> Shri Shivaji College of Agriculture Amravati

Panel discussion	Dr. Anand Aswar,	Chairman: Dr. H.S. Lunge
	Dr. M.M. Chimote,	Coordinator, IQAC
	Dr. C.M. Deshmukh,	Shri Shivaji Science College,
	Dr.P.A. Gawande	Amravati

Total 56 teachers were actively participated from various colleges of Sant Gadge Baba Amravati University Amravati. All the teachers had clear their ideas about how to select topic and allotted to students they actively participated in panel discussion and presented their remarks and hope to workshop will be benefited for the motivation of students to participation in the District level Avishkar 2018 with quality projects.

Date: 03/01/2019

Place: Amravati

Enclosure: Workshop schedule

(Dr. D.V. Hande)

**District Coordinator** 

(Dr. V.G. Thakare) **Principal** 

#### SHRI SHIVAJI SCIENCE COLLEGE, AMRAVATI TEACHER COORDINATORS WORKSHOP WORKSHOP SCHEDULE

Time	Activity
10.00-10.30	Registration
10.30-11.00	Inauguration
11.00-11.30	Dr. Anand Aswar
	Coordinator, Avishkar cell
	Sant Gadge Baba Amravati University, Amravati
11-30- 12.00	Dr. D.T. Ingole
	Director,
Session I	Board of Innovation, Incubation and Linkages
	Sant Gadge Baba Amravati University, Amravati
12.00- 12.30	Dr. D.Y. Chacharkar
Session II	Dept of MBA
	Sant Gadge Baba Amravati University, Amravati
12.30-1.00	Dr. Prashant Gawande
	Dept of Botany
	Sant Gadge Baba Amravati University, Amravati
1.00- 2.00	Lunch break
2.00-2.30	Dr. M.M. Chimote
	Dept of Marathi
Session III	Sant Gadge Baba Amravati University, Amravati
230.3.00	Dr. C.M. Deshmukh
Session IV	Shri Shivaji College of Agriculture
	Amravati
3.00- 4.00	Panel discussion
Session V	Dr. Anand Aswar, Dr. M.M. Chimote, Dr. C.M. Deshmukh, Dr.P.A. Gawande
	Chairman: Dr. H.S. Lunge
	Vote of Thanks: Dr.A.K. Maldhure

Date: Saturday 8 September 2018: 10.00 am

Venue: Sir C.V. Raman Auditorium, Shri Shivaji Science College, Amravati

## Glimpses of Avishkar-2018 (Teacher Coordinators Workshop)





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AVISHKAR-2018

#### TEACHER COORDINATORS WORKSHOP

#### Teacher coordinators details

Sr. No.	Name of Teacher Coordinator	Name of college	Subject	Address(Home/College)	Email	Contact No.	1
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6	Dr. Rojesh B. Pedhekaz	Bhatkuli -	Physics	shamtisadem colony, Ammerati	rajuhpudhuwa Bronart (om	9420833128
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#### AVISHKAR-2018

#### TEACHER COORDINATORS WORKSHOP

#### Teacher coordinators details

1	Sr. No.	Name of Teacher Coordinator	Name of college	Subject	Address(Home/College)	Email	Contact No.
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#### AVISHICAR-2018

#### TEACHER COORDINATORS WORKSHOP

#### Teacher coordinators details

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#### Shri Shivaji Science College, Amravati

#### **Maple Software Training Workshop**

The Maple Training Workshop was organized at Department of Physics on **08**<sup>th</sup> **October 2018** (**Monday**). This workshop is dedicated to exploring different aspects of the math software Maple, including Maple's impact on education, new symbolic computation algorithms and techniques, and the wide range of Maple applications. The attendees were the faculties of Physics, Mathematics, Statistics and Computer Science departments along with M.Sc. Physics students. The attendees had the opportunity to learn about the latest research and interact with Maple developers during this workshop.

The workshop includes presentation of the expert on Maple as computational tool for scientific & technological applications and how it can be used to improve the teaching and learning process. The presentation followed by the discussion of the faculty from the Department of Physics, Mathematics, Statistics and Computer Science on the different aspects of Maple. Maplesoft staff also offered Maple training sessions in future on a variety of topics.

The Maple engineer explained and demonstrate the following features of Maple 2018.

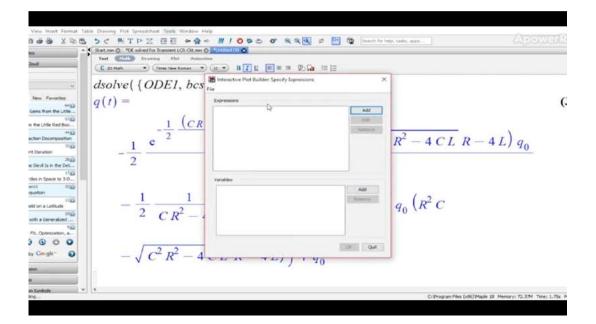
# Features Maple 2018 Academic Software for Mathematical Modelling and Simulation:

- Maple is a mathematical Modelling software which combines with world's most powerful math engine.
- 5000 + mathematical functions cover every aspect of math's and Physics.
- Easy Drag and drop Software for Generation of Question papers, Assignments, Research, Plots, diagrams and converting in Latex.
- It also provides the platform to directly export the maple file into other formats like HTML, PDF, Latex, Rich Text Format and many others.
- Used by 9000+ institute worldwide
- It provides a platform to deal with pure mathematical topics like Linear Algebra,
   P.D.E,O.D.E, Optimization, Number theory ,Physics, Statistics and many others
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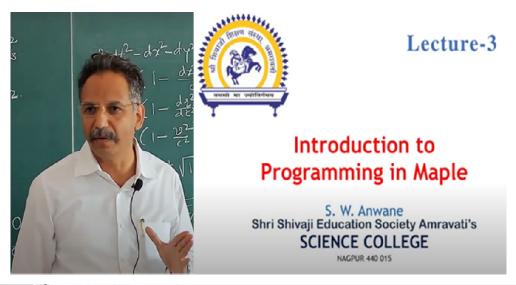
- It has a unique code generation feature, which help its users to convert maple code into 11 other languages like C++, Java, C#, Visual Basics, Python, R and etc.
- 2D & 3D plotting and animation, with the customization feature.
- Symbolic, numeric and hybrid computations algorithms.
- Perpetual license.
- Student / teacher help center.
- Specialized teacher resource center.
- Worldwide connecting platform(Maple Community)

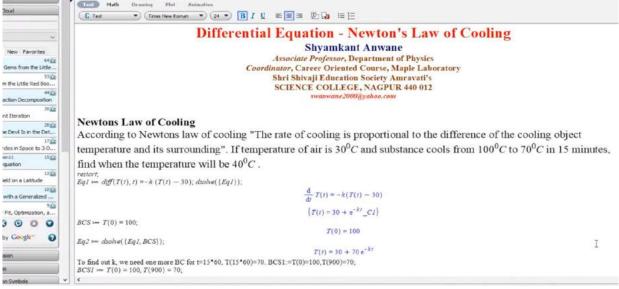
During the workshop KarismaPunwani, Product Manager Maple Soft shared the experiences by the users of Maple software online.





In the second session on the same dayDr. ShamkantAnwane, Associate Professor Department of Physics and Coordinator, Career Oriented Course, Maple Laboratory, SSES'S Science College, Nagpur, presented his experiences with Maple software.





#### Following teachers were participated in the workshop

- 1. Dr. V.B. Bhatkar (Physics)
- 2. Dr. W.S. Barde (Physics)
- 3. Dr. P.A. Nagpure (Physics)
- 4. Dr. H.M. Deshmukh (Comp. Sc.)
- 5. Mr. M.M. Bhonde (Comp. Sc.)

- 6. Dr. S.V. Chaoudhari (Statistics)
- 7. Dr. H.S. Lunge (Statistics)
- 8. Mr. N.S. Makeshwar (Statistics)
- 9. Dr. U.V. Kale (Statistics)
- 10. Mr. U.M. Patil (Maths)
- 11. Dr. V.M. Raut (Maths)







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Founder : Dr. Panjabrao alias I

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♦ President : Hon.Sh.Harshwa
♦ Principal : Dr. V.G. Thakars

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Principal
Principal
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# Report of the 20<sup>th</sup> Annual Convention and Seminar on "Research Methodology in Current Context."

The 20<sup>th</sup> Annual Convention and Seminar on ""Research Methodology in Current Context." have been organised by Department of Chemistry, Shri Shivaji Science College, Amravati on Sunday, December 02, 2018. The inaugural function was presided over by Hon'able Chair person Shri Dilipbabu Ingole, Treasurer, Shri Shivaji Education Society, Amravati. The function was inaugurated by Hon'ble Prof. P.P. Mahulikar, Pro-Vice Chancellor, KBC North Maharashtra University Jalgaon. Dr. V. G. Thakare, Principal, Shri Shivaji Science College, Amravati.& President AUCTA, Amravati, Dr. G.N.Chaudhari, Professor & Head Department of Chemistry, Shri Shivaji Science College, Amravati, Dr.P.R.Mandlik, Secretary, AUCTA, Amravati, Dr. P.R.Padole, Co-ordinator of the function were also present on the dais.

Hon'ble **Prof. P.P. Mahulikar,** Pro-Vice Chancellor, KBC North Maharashtra University Jalgaon had delivered a key-note address on the topic "Research Methodology in Current Context.". More than 170 teachers of various colleges affiliated to Sant Gadge Baba Amravati University, Amravati and 40 students of UG & PG actively participated in this seminar.

On this occasion, teachers elected as senate member, member of academic council of SGBAU Amravati were felicitated for their achievements. Four retired teachers, namely, Dr. S. P. Deshmukh, Akola, Dr. B. N. Berad Nagpur, Dr.R. M. Kedar Amravati & Dr. S R. Dighade Badnera, who serve their entire life for nurturing and popularizing the subject Chemistry, AUCTA has felicitated such peoples for their work and contribution in chemistry.

Teachers who awarded Ph.D. degree in the subject of Chemistry from Sant Gadge Baba Amravati University, Amravati have also been honoured. Felicitation of the Merit Students (UG & PG) was done at the hands of dignitaries by awarding gold medals for their outstanding achievements in S. G. B. Amaravati University. Amravati, Summer-2017 examination in the subject Chemistry. Toppers of General Aptitude Test 2017-18 organised by AUCTA were also felicitated on this occasion.

Annual general body meeting was conducted in the second session of the program with very fruitful discussion and thereafter, election of office bearer. After the election programme, the newly elected members of managing committee were felicitated by the Dr. V. G. Thakare, President AUCTA. The newly elected President of AUCTA Dr. P. R. Rajput has delivered his views about the forthcoming line of action of the association. The program was concluded with the vote of thanks by Dr. P. R. Mandlik, Secretary of the association.

Dr Pramod R. Padole

Co-ordinator 20<sup>th</sup> Annual Convention AUCTA





















AMRAVATI UNIVERSITY CHEMISTRY TEACHERS' ASSOCIATION

20<sup>th</sup> Annual Convention and Seminar on Research Methodology in Current Context

Updated List of	Life members	(Upto 02/12/2018)	
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LM NO	Name		Name College Name		Signature Registration	Signature Certificate	
1	Dr.	Α.	W.	Raut	Shri Shivaji Science College, Amravati. (Retired)		
2	Mr.	V.	T.	Bhugul	College of Engineering, Akola		
3	Mr.	G.	В.	Suralkar	College of Engineering, Akola		
4	Mr.	٧.	G.	Mahajan	Jijamata Mahavidyalaya, Buldana. (V.Retired)	1 =	1
5	Mr.	A.	S.	Wankhade	Vidarbha Mahavidyalaya, Amravati.(Retired)	.13.	13
6	Mr.	R.	D.	Satpute	Vidarbha Mahavidyalaya, Amravati. (Retired)	<u> </u>	R- BJayor
7	Mr.	J.	P.	Taori	Adarsh Mahavidyalaya, Amravati. (Retired)	Å	
8	Dr.	A.	G.	Doshi	Vidyabharti Mahavidyalaya, Amravati. (Retired)		
9	Dr.	S.	B.	Lohiya	Brijlal Biyani Science College, Amravati		
10	Mr.	V.	D.	Thakare	Government Vidarbha Institute of Science & Humanities, Amravati.		
11	Dr.	M.	D.	Agrawal	College of Engineering, Badnera Rly. (Retired)		
12	Dr.	S.	P.	Wagh	Shri Shivaji College, Akot	-401	100
13	Mr.	R.	P.	Mundada	RLT College of Science, Akola. (Retired)		
14	Dr.	P.	B.	Raghuwanshi	Brijlal Biyani Sci. College, Amravati	<b>Ja</b>	
15	Dr.	A.	Y.	Deshmukh	S.S.S.K.R. Innani College, Karanja(Lad) Dist-Washim	2	
16	Dr.	S.	P.	Deshmukh	Shri Shivaji College of Arts, Com. & Science, Akola	5/10/	
• 17	Dr.	V.	S.	Jamode	SGB, Amravati University, Amravati.(Retired)	B) amod	
19	Mr.	V.	Y.	Gokhale	RLT College of Science, Akola. (Retired)		
20	Mr.	B.	J.	Joshi	RLT College of Science, Akola. (Retired)	- 63	
21	Dr.	S.	G.	Bhadange	Shri Shivaji College of Arts, Com. & Science, Akola	80X	1
22	Dr.	P.	R.	Rajput	Vidya Bharati Mahavidyalaya, Amravati.	dline	a
23	Dr.	A.	R.		Government Vidarbha Institute of Science & Humanities, Amravati.	1 ps to	90
24	Dr.	G.	B.	Pachade	Amolakchand College, Yavatmal	1 555 \mm	1
25	Mr.	B.	D.		R.A. Arts, M.K.C.& S.R.Rathi Sci College, Washim. (Rtd.)	00 11.	
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51	Dr. R.	M.	Jumale	Shri Shivaji College, Akot Dist- Akola.	(my)	~ ' \
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111	Dr.	S.	R.	Warhate	Paincipal, Shivaranji Mophe Azts Commerce Laci College, Pandhaskuwak	?	1
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• 114	Dr.	N.	H.	Bansod	Shri Shivaji Sci. College, Amravati	( mark	Story
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116	Ms.	A.	S.	Deshmukh	M.V. Deshmukh Mahavidyalaya, Amravati.		
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126	Dr. k	۲.	N. 1	Puri	Shri Shivaji Arts, Commerce and Science College Akola.	A Comment	A JOL
127	Dr. C	). '	V. I	Korpe	Shri Shivaji College of Arts, Com. & Sci, Akola	The state of the s	70/
128	Ms. S	5. 1	М. І	Bombatkar	Government Institute of Forensic Science, Aurangabad		
129	Dr. U	J. 1	E. <b>(</b>	Chaudhari	Mahatma Fule Mahavidyalaya, Warud.	(N)	
130	Dr. R	l. 1	E. <b>E</b>	Bhadange	Shri Shivaji College Of Arts, Com. & Sci, Akola		
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132	Mr. V	'. <b>\</b>	V. E	Banewar	Institute of Science, i5-Madan, cama Road, Fort, Mumbai 32	/ 15.*	

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136	2	Bhartiya Mahavidyalaya, Amravati.(Retired)	- Charles
137	1.11	Brijlal Biyani Sci. College, Amravati	Dambe Samba
138	•	H.V.P.M.S College of Engg. & Tech. Amravati	
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147	Ms. S. K. Deshmukh	Shri Shivaji College of Arts, Com. & Sci, Akola	183613
148	Dr. R. G. Mahale	S.S.V.P.S.I.K. Dr Ghogre Science College, Dhule	
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167	Dr.	T.	P.	Chavan	Amolakchand Mahavidyalaya, Yavatmal		
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172	Mr.	M.	O.	Malpani	S. Khandelwal Arts, Com. and Sci. College, Akola	67	(0)
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174	Dr.	A.	S.	Rathod	M.V. Deshmukh Mahavidyalaya, Amravati.		
175	Dr.	U.	S.	Khandekar	Arts, Com. & Sci. College, Kiran Nagar, Amravati.	No.	"Rov"
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182	Dr.	P.	T.	Agrawal	R.L.T. College Of Science Akola.	and o	to a
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7 Mr.		B.	Jadhao	Jagdamba Mahavidyala, Achalpur		
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Ms.	M.	R	Shaikh	Jagdamba Mahavidyalaya, Achalpur	***	
Dr.	N.	V.	Rathod	R.A. College, Washim	Mandon	NHZ-
Mr.	M.	S.	More	R.A. College, Washim	2 Mills	MY.
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	Mr.	Mr. R. Mr. P. Mr. P. Dr. A. Mr. S. Mr. S. Mr. S. Mr. S. Mr. V. Dr. M. Dr. M. Mr. R. Mr. V. Mr. D. Mr. B. Mr. C. Mr. V. Mr. N. Mr. A. Mr. A. Mr. A. Mr. A. Mr. A. Mr. A. Mr. M.	Mr R. N.  Mr. R. N.  Mr. P. R.  Mr. P. H.  Dr. A. D.  Mr. B. R.  Mr. S. R.  Mr. S. R.  Mr. S. R.  Mr. V. A.  Dr. N. B.  Mr. D. P.  Mr. N. B.  Mr. R. P.  Mr. N. B.  Mr. V. A.  Mr. N. B.  Mr. R. P.  Mr. N. B.  Mr. R. P.  Mr. D.  Mr. D.  Mr. D.  Mr. C.  Mr.	Mr. R. N. Gaikwad Mr. P. R. Bhokare Mr. P. H. Bhagwat Dr. A. D. Khambare Mr. P. R. Yawale Dr. S. R. Kelode Mr. B. R. Deshmukh Mr. S. S. Kamble Mr. O. K. Kapse Dr. M. N. Lokhande Mr. V. A. Sadaphale Mr. N. B. Jadhao Mr. R. P. Rahate Dr. S. S. Ubarhande Mr. D. M. Rahate Mr. D. M. Maske Mr. C. Zayate Mr. V. D. Deoktale Mr. V. R. Mate Dr. D. M. Chavhan Dr N. S. Dixit Mr. A. L. Shaikh Mr. R. S. Patil Mr. D. I. Maske Ms. M. R. Shaikh Dr. N. V. Rathod Mr. M. S. More	Mr         R.         N.         Ingole         Shri Vitthal Rukhmini College, Sawana           Mr.         R.         N.         Gaikwad         Shri Vitthal Rukhmini College, Sawana           Mr.         P.         R.         Bhokare         S.M.D.Bharti Mahavidyalaya, Arni DistYeotmal           Mr.         P.         H.         Bhagwat         Mungsaji Maharaj Mahavidyalaya, Darwha.           Dr.         A.         D.         Khambare         Mahatma Fule Mahavidyalaya, Patur Dist Akola           Mr.         P.         R.         Yawale         G.S.Tompe Arts, Commerce and Science College, Maregaon           Mr.         B.         R.         Deshmukh         Arts, Commerce and Science College, Maregaon           Mr.         S.         S.         Kamble         Arts, Commerce and Science College, Maregaon           Mr.         S.         R.         More         Late Ku. Durga K. Banmeru Science College, Lonar Dist: Buldana           Mr.         S.         R.         More         Late Ku. Durga K. Banmeru Science College, Lonar Dist: Buldana           Mr.         O.         K.         Kapse         Matoshri Nanibai Gharphalkar, Science College, Danar Dist: Yeotmal           Mr.         V.         A.         Sadaphale         Adarsh Science College, Dhamangaon Railway <td>Mr. R. N. Ingole Shri Vitthal Rukhmini College, Sawana Shri Vitthal Rukhmini College, Mare Dist. Yeotmal Mr. P. R. Yawale G.S.Tompe Arts, Commerce and Science College, Maregaon Arts, Commerce and Science College, Babhulgaon Dist: Yeotmal Arts, Commerce and Science College, Dhamangaon Railway Arts, Commerce and Science College, Chikhaldara Arts, Commerce and Science College, Digras Arts, N.B. Commerce and Science College, Mangulpir Arts, College Arts, Arts,</td>	Mr. R. N. Ingole Shri Vitthal Rukhmini College, Sawana Shri Vitthal Rukhmini College, Mare Dist. Yeotmal Mr. P. R. Yawale G.S.Tompe Arts, Commerce and Science College, Maregaon Arts, Commerce and Science College, Babhulgaon Dist: Yeotmal Arts, Commerce and Science College, Dhamangaon Railway Arts, Commerce and Science College, Chikhaldara Arts, Commerce and Science College, Digras Arts, N.B. Commerce and Science College, Mangulpir Arts, College Arts,

## Year 2019-2020

# SHRI SHIVAJI SCIENCE COLLEGE, AMRAVTI TRAINING PROGRAMME FOR NONTEACHING STAFF ON ERP MODULE

Office automation software has been renewed with the Cloud Based ERP CCMS by 'Master Soft' ERP solutions, Nagpur in 2018. The second training programme, by Master Soft was organised on 12/06/2019, for the office nonteaching staff on the various modules such as online Students Admission, Fee Collection, Students data administration, internal examinations, Finance and Accounts, Payroll, Purchase and store, web portal etc. The Principal, senior teachers related with admission process and examination had attended the programme.

The following teachers and nonteaching staff were present:-

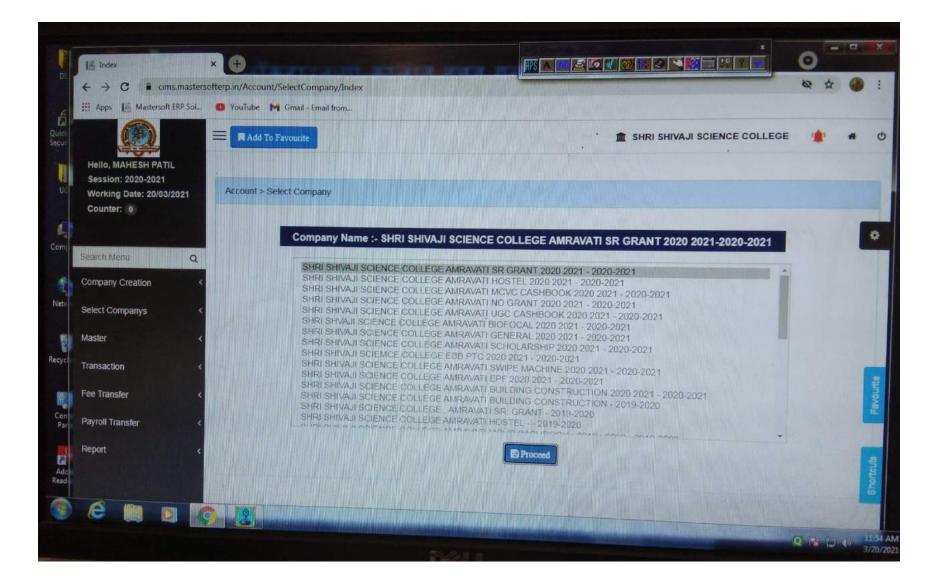
- 1. Dr. V.G. Thakare, Principal
- 2. Dr. H.S. Lunge, IQAC Coordinator
- 3. Dr. V.B. Bhatkar,
- 4. Dr. W.S. Barde
- 5. Dr. P.R Nagpure
- 6. Dr. U. V. Kale
- 7. Dr. S. K. Rithe
- 8. Sh. M.M. Bhonde
- 9. Sh. Pramod Bhande
- 10. Sh Vonod Bure
- 11. Sh. Mahesh Patil
- 12. Sh.G.R Malasne
- 13. Sh. Pravin Gondikar
- 14. Sh S. G. Raut
- 15. Sh. Manish Wankhade
- 16. Sh. S. R. Hirde
- 17. Sh. Bharat Bute
- 18. Sh. M. P. Tayade
- 19. Sh. Tushar Borkar

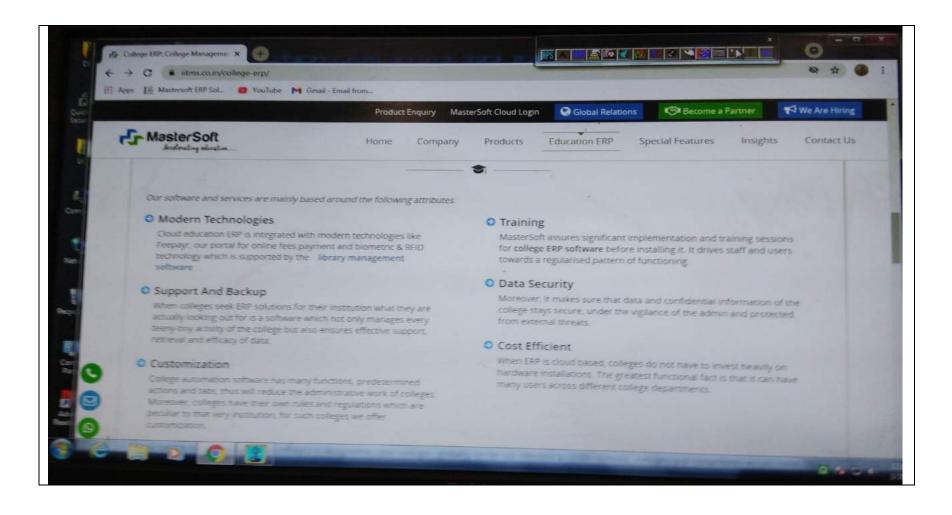


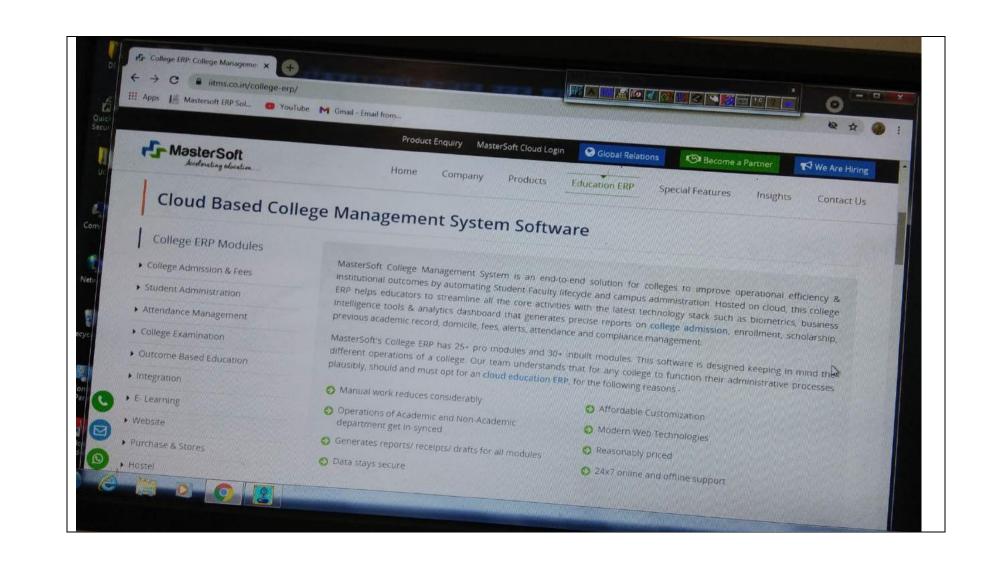




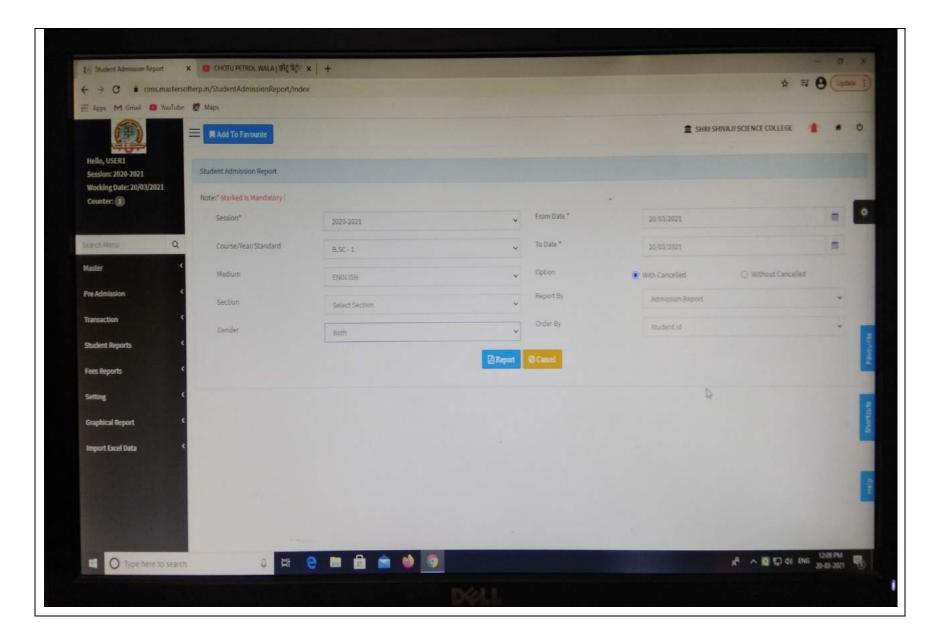
# SHRI SHIVAJI SCIENCE COLLEGE, AMRAVATI ERP DOCUMENTS

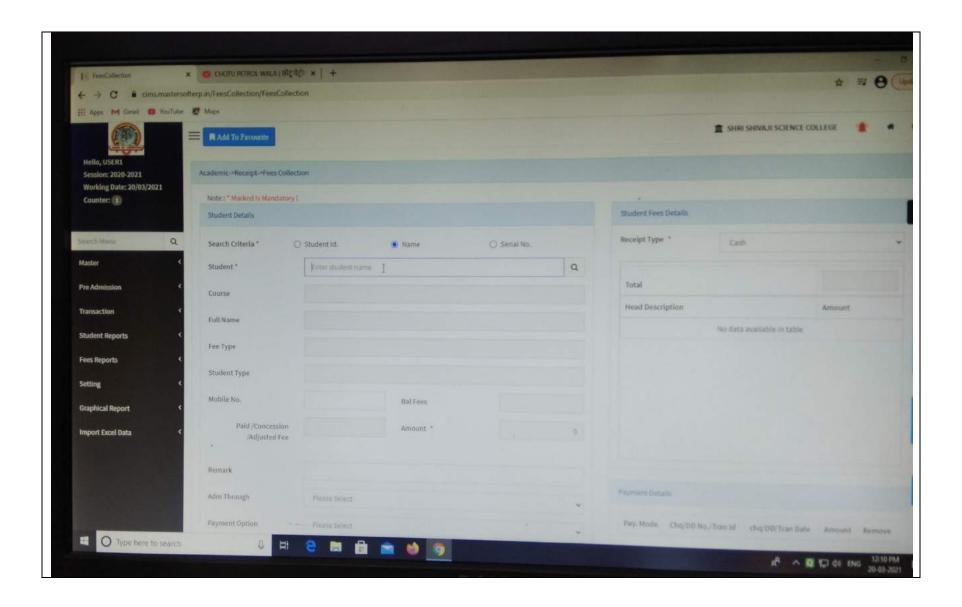


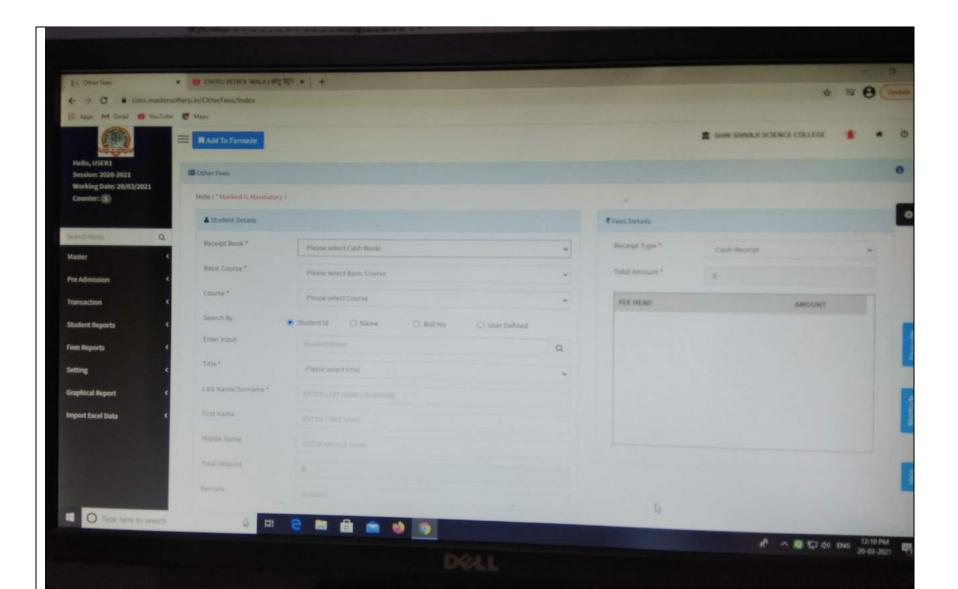


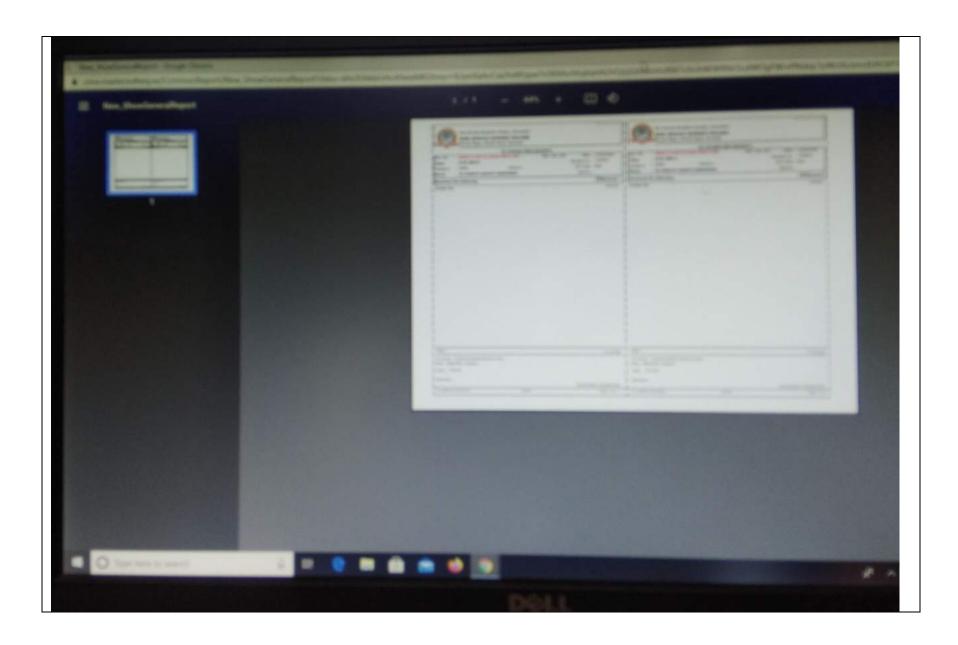


### **Student Admission Report:**

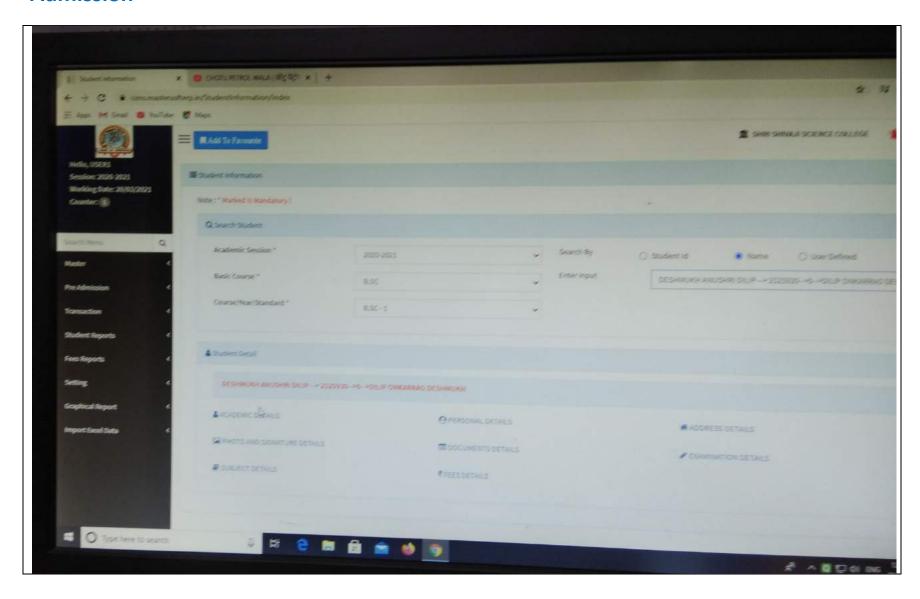


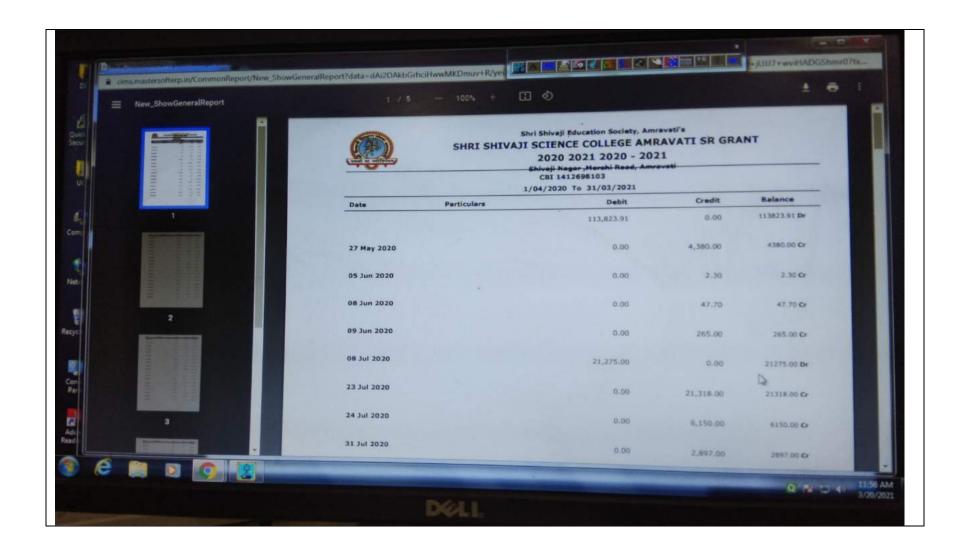




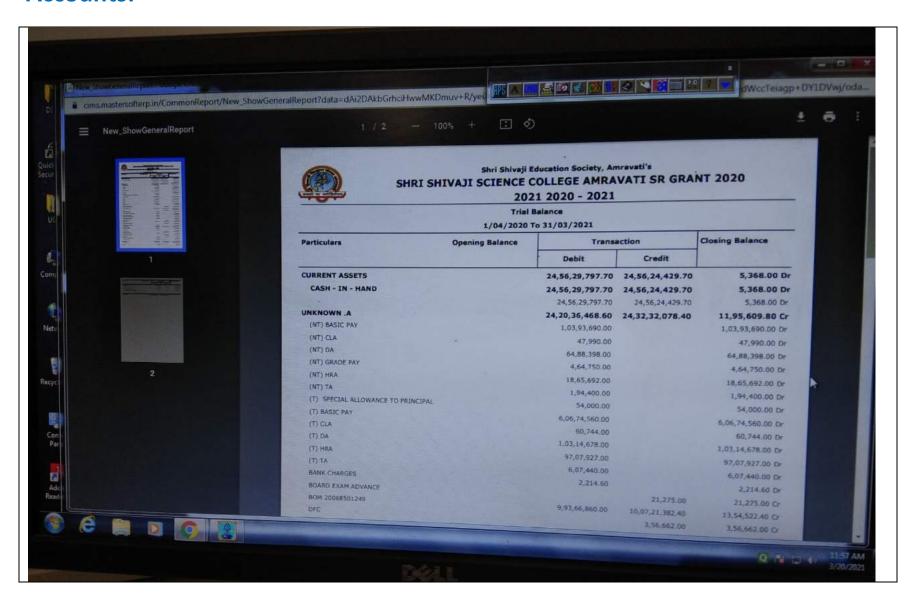


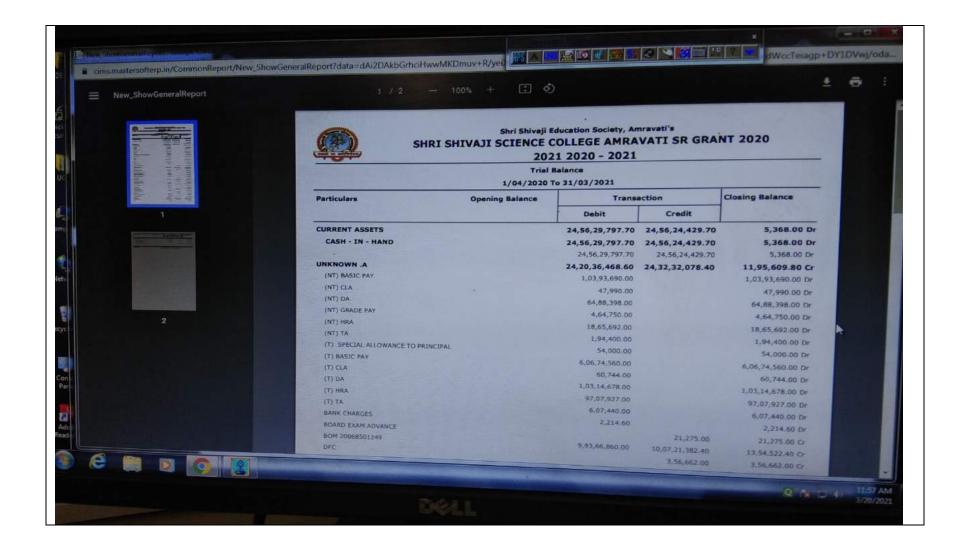
#### **Admission**

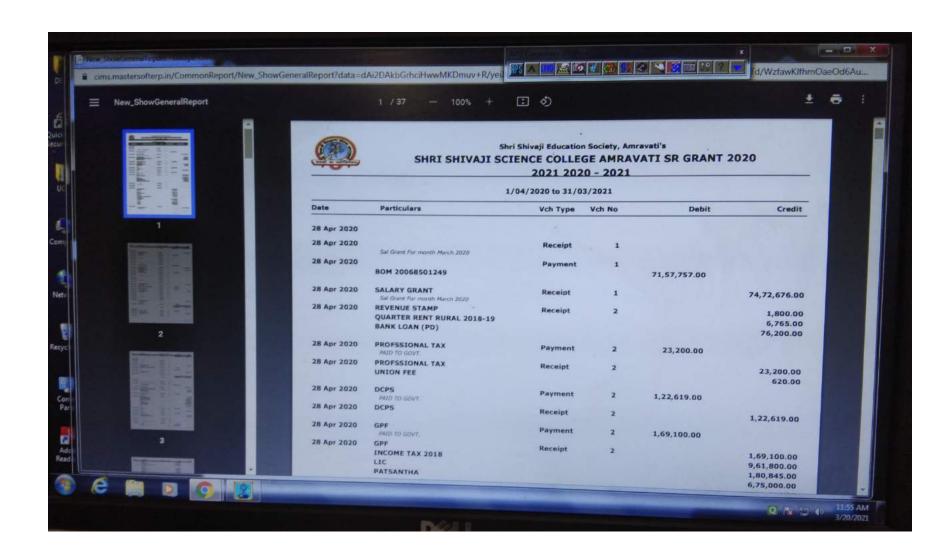




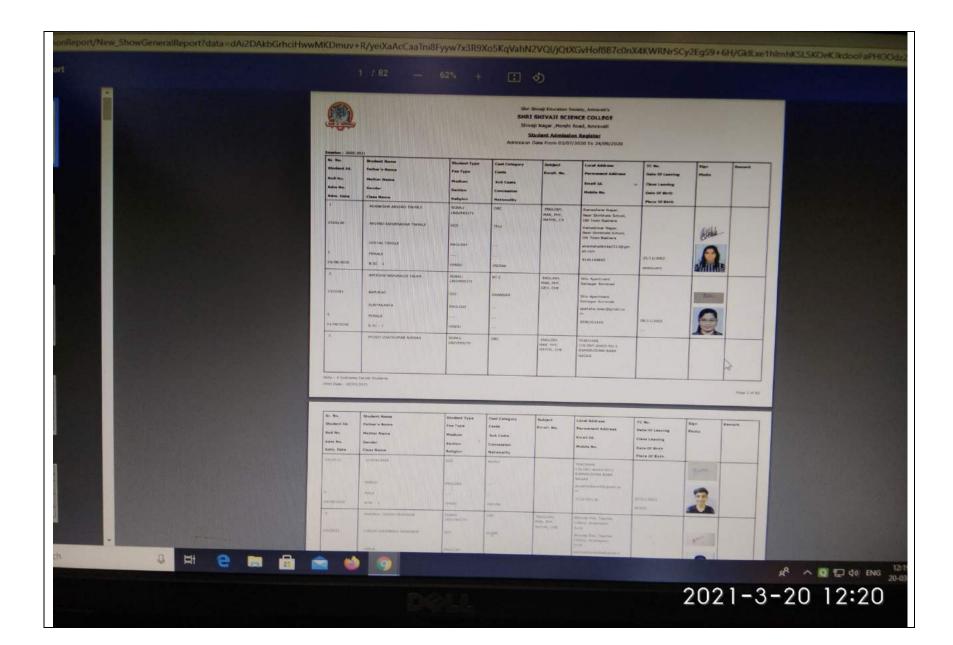
#### **Accounts:**



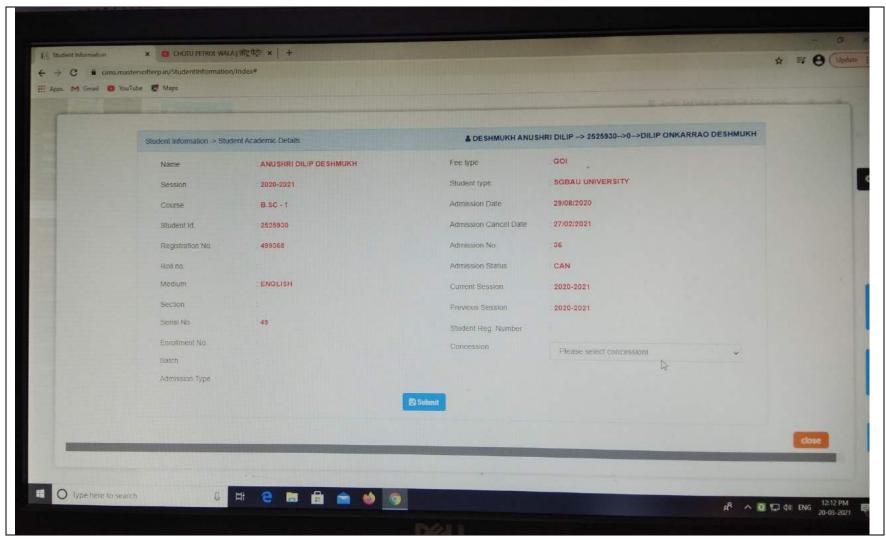


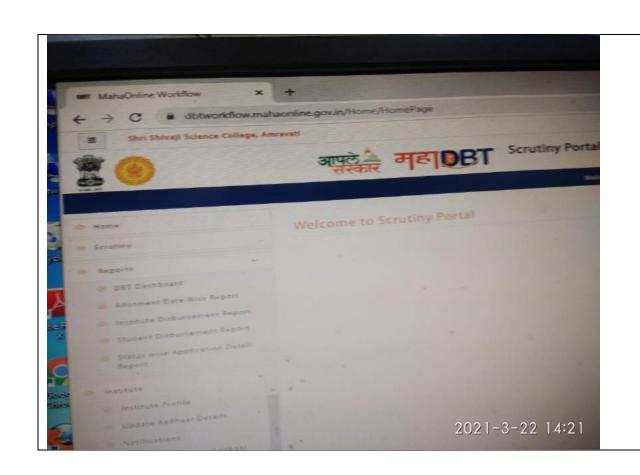


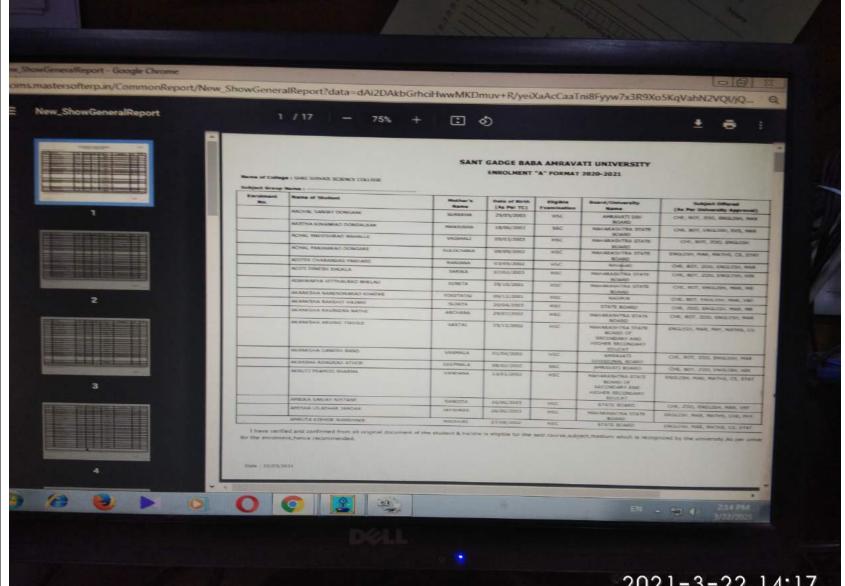
#### List of Students:

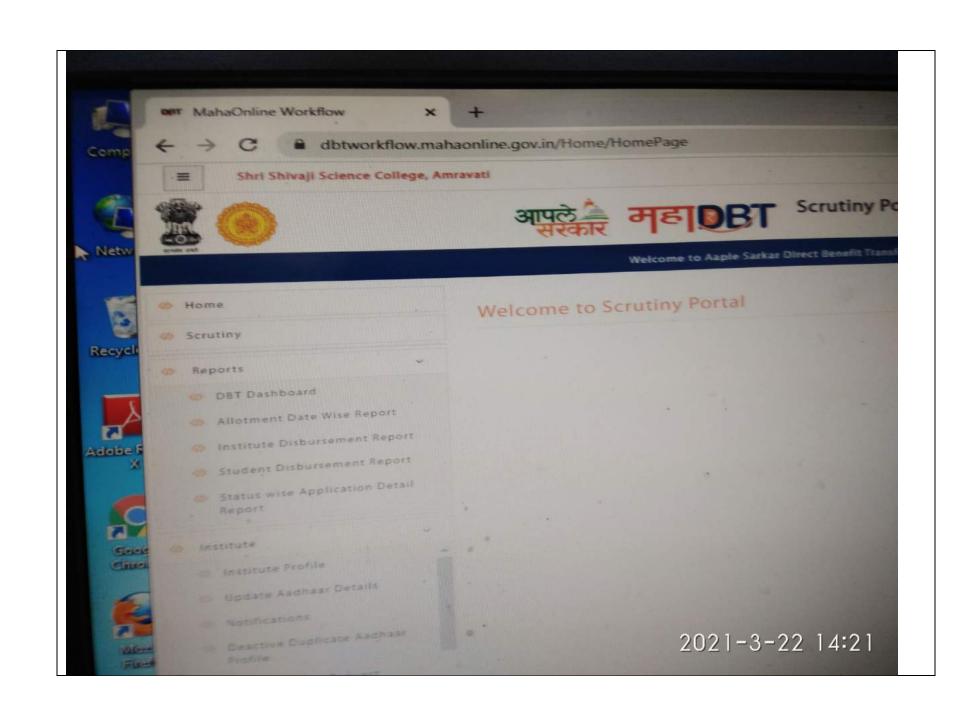


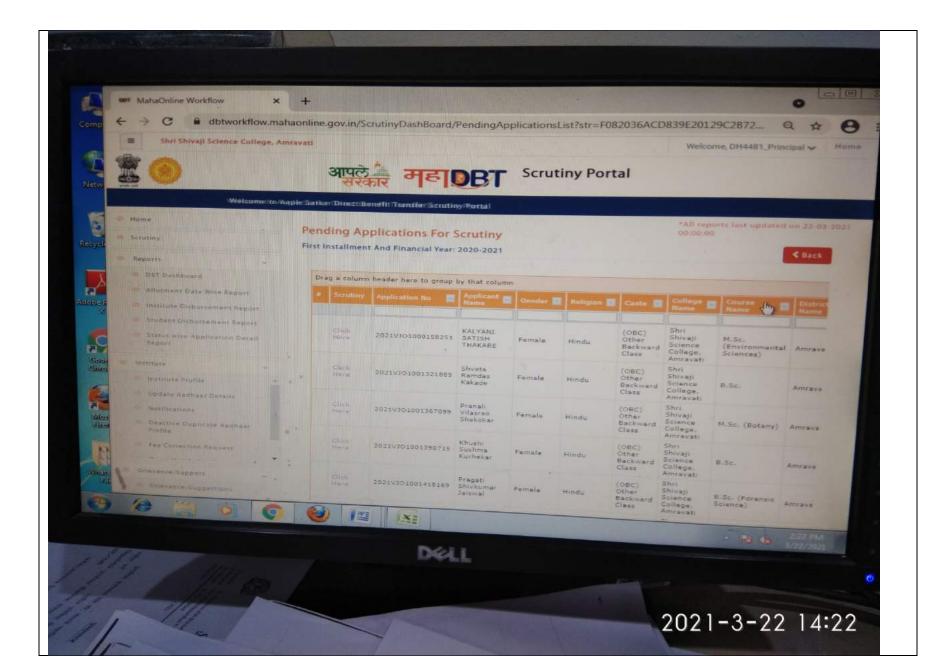
#### **Admission form:**

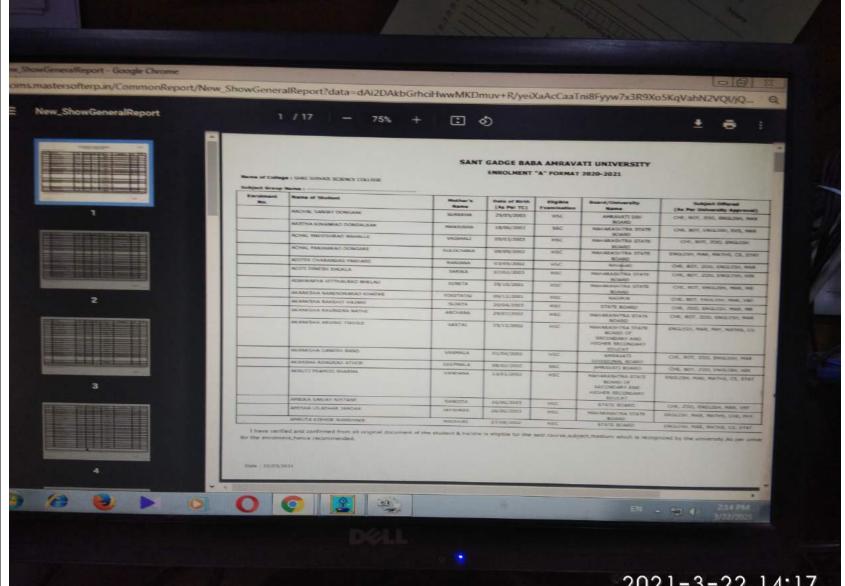


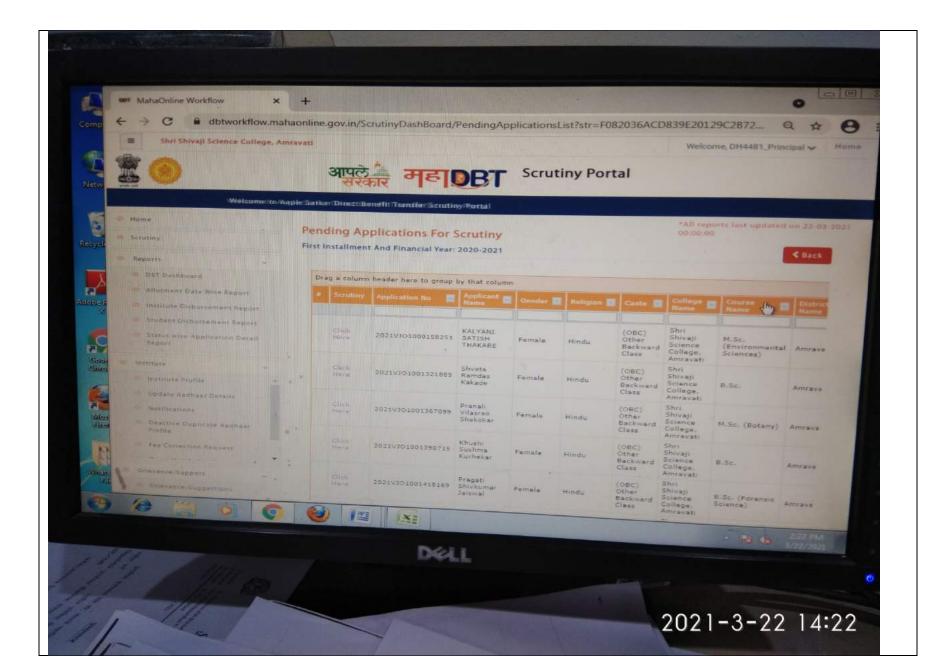


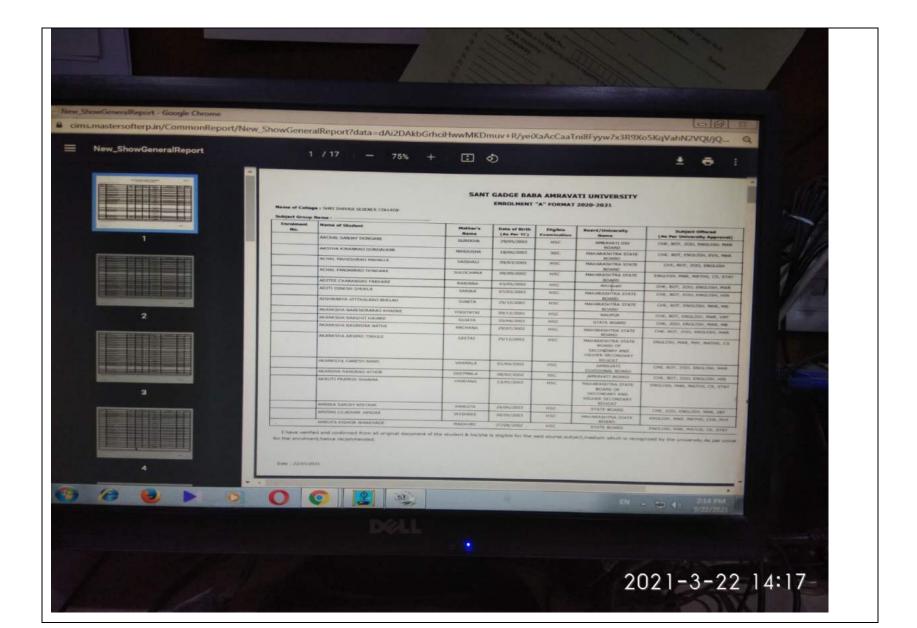


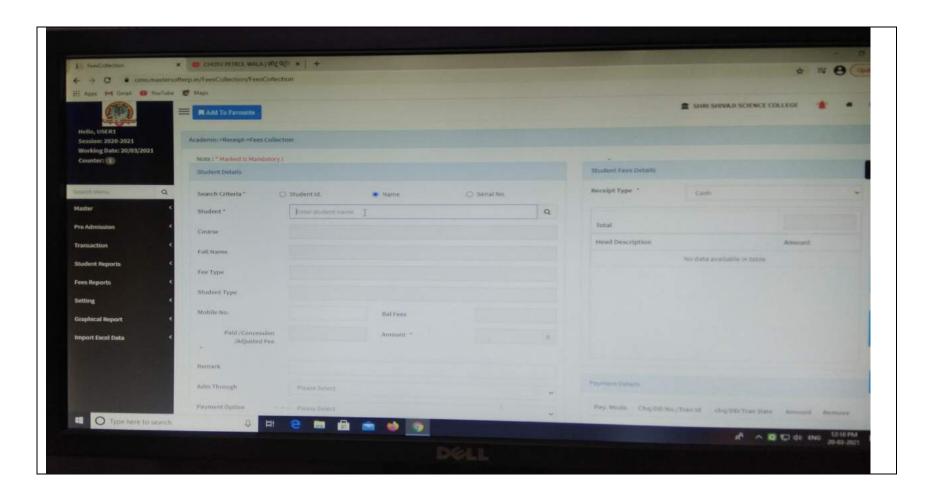


















Shri Shivaji Education Society Amravati's
Shri Shivaji Science College, Amravati
Re-Accreditted by NAAC A grade with CGPA of 3.13 College with Potential for Excellence

The present Pandemic COVID-19 situation have has caused immense information flowing through different channels. A massive webinars are organised by national and International academic as well as commercial organisation. The information which was login is now logout thus giving us an opportunity to learn and relearn. The present situation accelerated research opportunity and provided time to concentrate on research. If you are thinking of introducing something innovative in form of patent or writing book or publishing your research ensure that we do not infringe copyright. To know more about Intellectual property and your rights, The Library and IQAC is organizing online workshop on Effective Enforcement of IPR: Patent and Copyright on Wednesday 17 June 2020 at 2.30pm to 4.30pm. The workshop is conducted online on Zoom app. The link will be shared on emails and whatsApp groups very soon.

Link of registration: https://forms.gle/GsaRw8xeMBTnqAa47

Feedback link: https://forms.gle/BBxL7pK9D3ckHUaN6

1st Session

2.30pm to 3.30pm

#### Resource Person

Dr. Vijaya S. Sangawar Professor, Deptt. Of Physics GVISH, Amravati

#### Topic:

Patent: Know your Right

- 1.IPR
- 2. Patent its nature
- 3. Patent Drafting and processing
- 4. Patent Rights

### 2<sup>nd</sup> Session

3.45 to 4.45pm

### Resource Person

Dr.Mangala A. Hirwade
Associate Professor,
Deptt. Of Library and Information Science
RTMNU, Nagpur

### Topic:

Copyright and Plagiarism issues in context to UGC

- 1.Copyright
- 2.UGC regulations
- 3.Plagiarism

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4. How to avoid Plagiarism?

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#### Shri Shivaji Science College, Amravati

Report 2020-2021

Workshopon IPR

#### **Effective Enforcement of IPR: Patent and Copyright**

The Library and IQAC organized online workshop on Effective Enforcement of IPR: Patent and Copyright on Wednesday 17 June 2020 at 11am to 3.30pm. The workshop was conducted online on Zoom app. The registration link was shared on emails and whatsApp groups with frequent alerts and 145 participants registered for the workshop. The workshop started with introduction by librarian. Hon' Principal Dr. V.G. Thakare, IQAC coordinator Dr.H.S. Lunge and all the head of departments and staff members participated online. The IQAC coordinator Dr. H. S. Lunge shared his view on topic and appreciated the speaker contribution in the field of IPR. The session started at 11.15am by the lecture of Dr. Vijaya S. Sangawar Professor, Deptt. Of PhysicsGVISH, Amravati, on Patent: Know your Right, she covered IPR, Patent its nature, Patent Drafting and processing and Patent Rights.

The second session started at 12.30 after by Dr. Mangala A. Hirwade, Associate Professor, Deptt. Of Library and Information Science RTMNU, Nagpur on the topic Copyright and Plagiarism issues in context to UGC. In her lecture she covered Copyright, UGC regulations, Plagiarism, How to avoid Plagiarism? She explained thoroughly the issues of copyright giving examples of landmark cases in the past. The feedback link was shared after the workshop and feedback was received. The workshop concluded with vote of thanks by Librarian, Dr Revati R. Khokale.

#### VachanPrerna Din

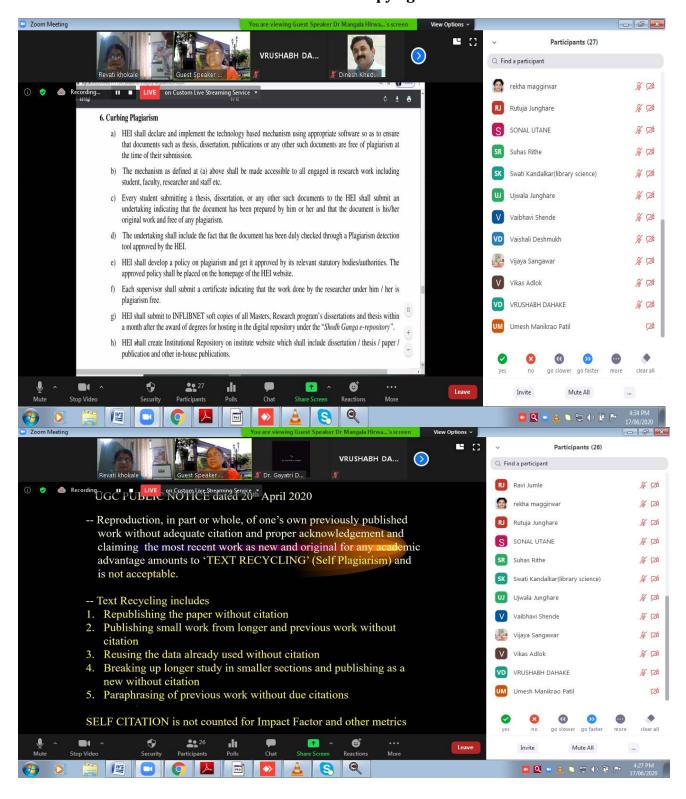
The VachanPrerna Din 14October the birth anniversary of Late Dr A.P.J. Kalam was celebrated by organising guest lecture on the topic Patent An introduction, retrieval and Career opportunities by Mr VrushabhDahake, Librarian, BhartiyaMahavidyalaya, Amravati Mr Dahake explained how to write & read patent. He also explained different job opportunities in area of Patent. The lecture ended by vote of thanks.

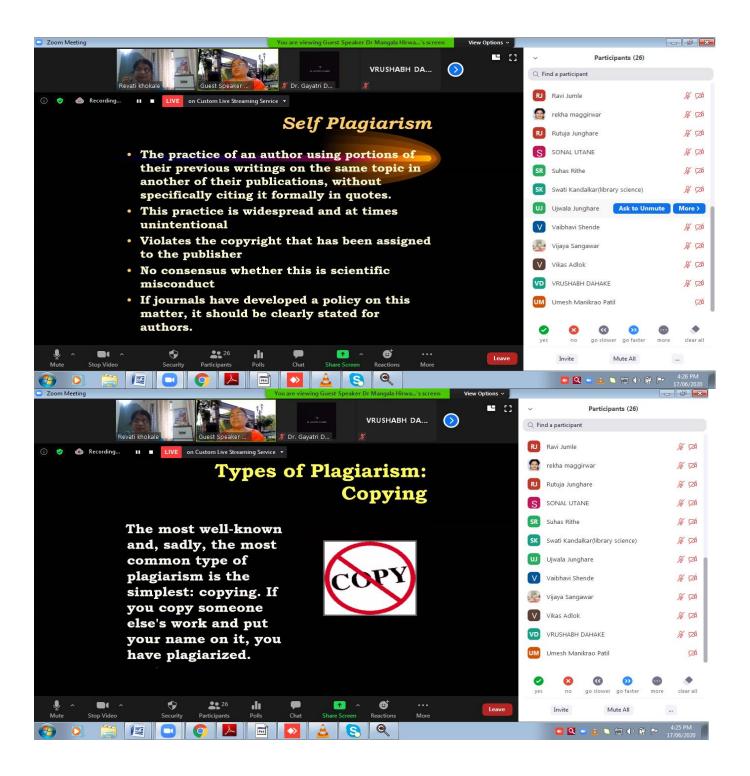
Dr. H. S. LUNGE IQAC Coordinator Shri Shivaji Science College Amravati.

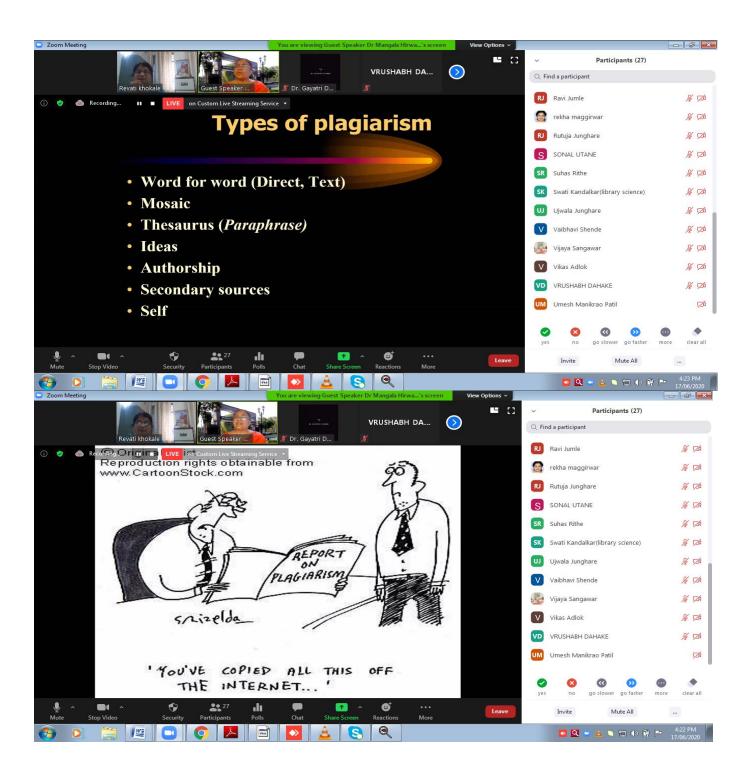


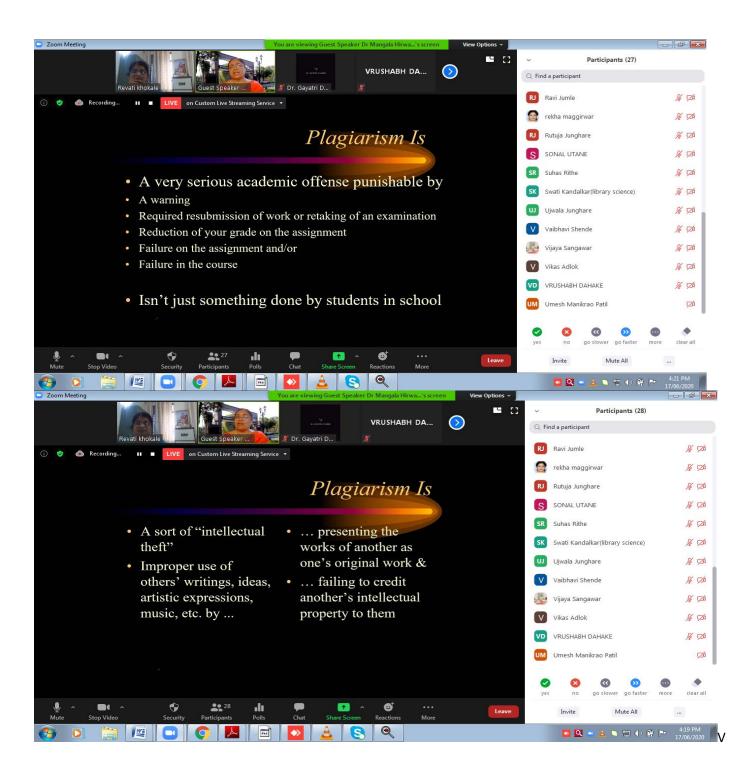
Principal
Principal
Shri Shivaji Science College
AMRAVATI.

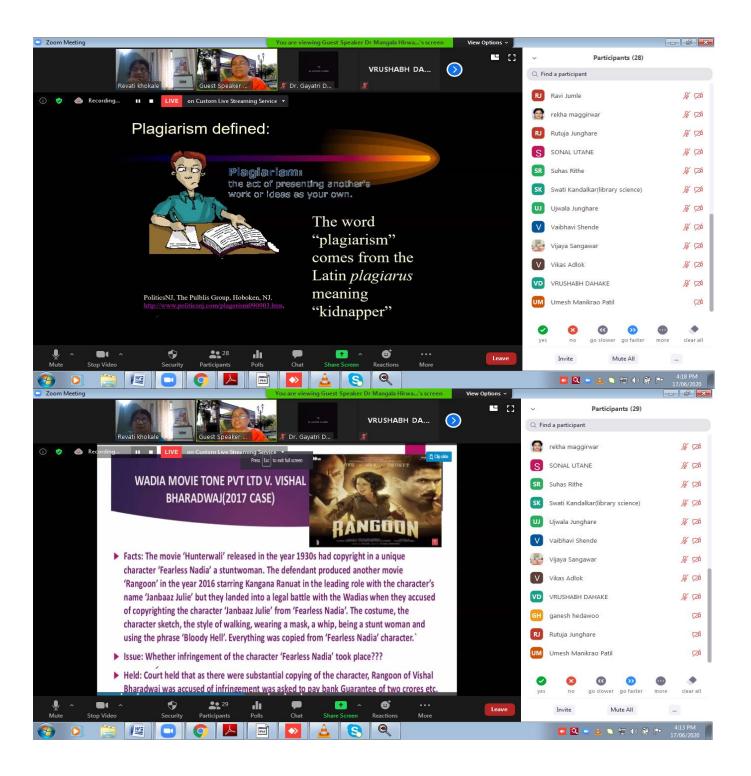
## Glimpses of online workshop on Effective Enforcement of IPR: Patent and Copyright

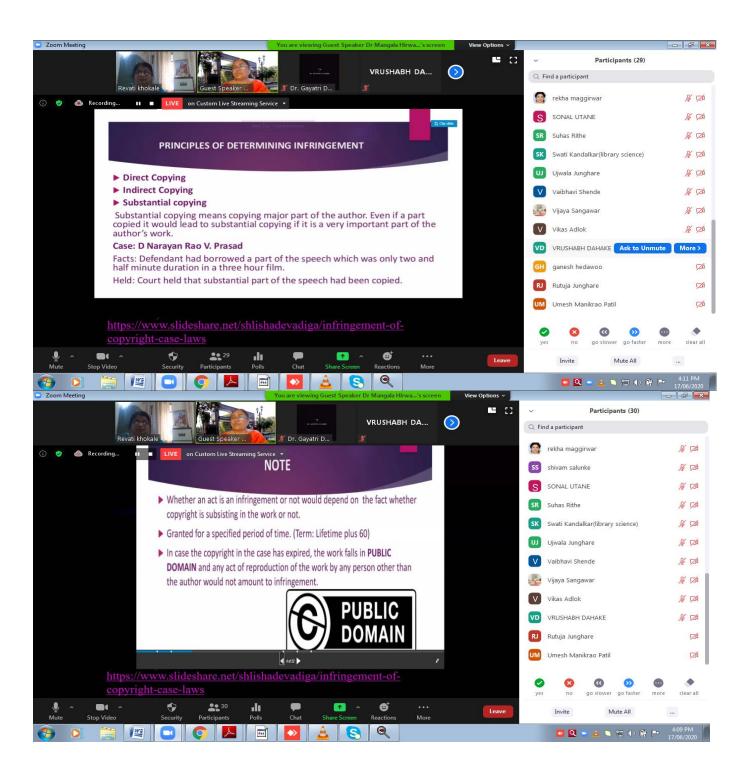


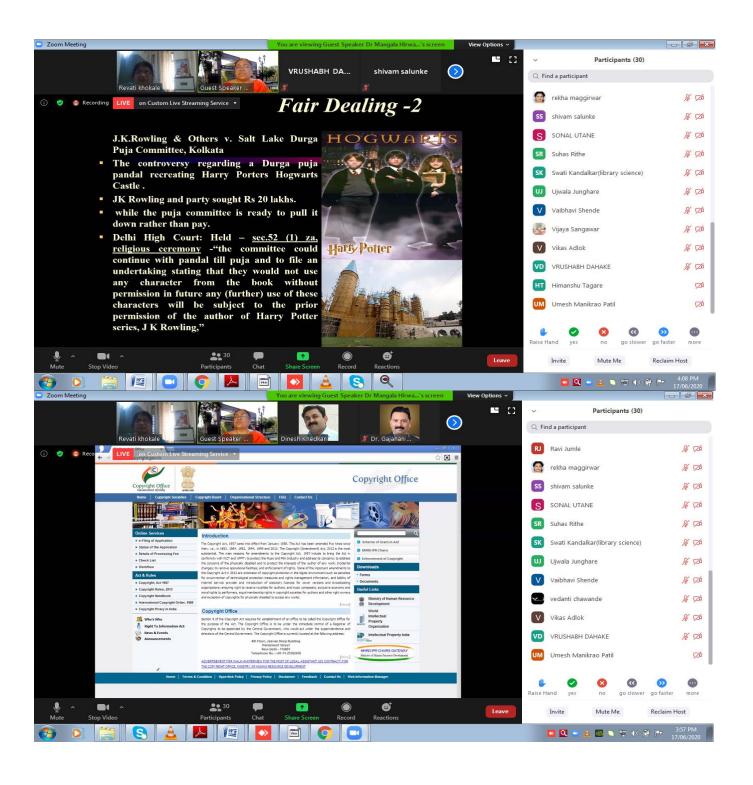


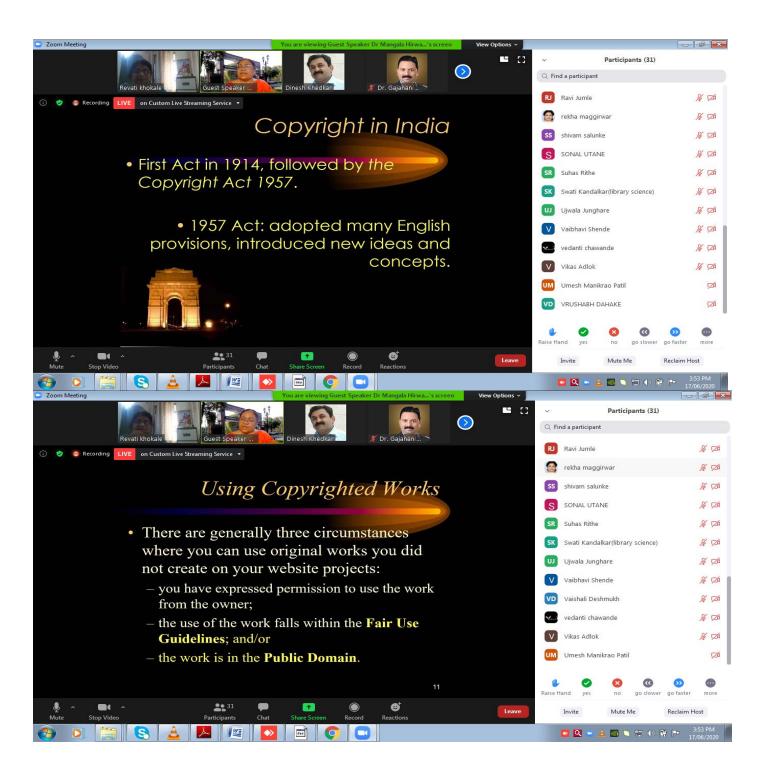












# List of Participants online workshop on Effective Enforcement of IPR: Patent and Copyright

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	Rasika Jane	jane.rasika@gmail.com	Bioteciniology	Amravati	9970728441
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36	Nirajkumar Deomanrao Ambhore	nirajkumarambhore@gmail.com	Law	Shri Nathmal Goenka Law College, Akola	9890947564
37	Bharsakale Deepali Ambadas	bharsakaledeepa@gmail.com	Botany	Shri shivaji college of agriculture biotechnology	9860654324
38	Dr Sujata Kawade	sujata_4980@rediffmail.com	Department of Zoology	Shri Shivaji Science College, Amravati	9673106328
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43	Saurabh Kailashchandra Paunikar	Saurabhkcm@gmail.com	Geology	Shri Shivaji Science College, Amravati	9527069029

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43		sgsoftware1@gmail.com	Engineering		9/003//311
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47	Dr. Suresh S Thakare	sureshthakare2710@gmail.com	Chemistry	Rajarshee Shahu Science College, Chandur Rly	9422844149
48	Miss.Kulkarni Ketaki Kamalakar	ketaki1298@gmail.com	Chemistry	Dr.B.A.M.U.Subcampus,Osm anabad	7972392734
49	Pankaj A. Nagpure	pankajanagpure1982@gmail.co m	Physics	Shri Shivaji Science College, Amravati	9404376940
50	Prashant Netankar	pdnetchem@gmail.com	Chemistry	Maulana Azad College Aurangabad	9422213422
51	DR. GANESH B. HEDAWOO	drgbhedawoo@gmail.com	Botany	Shri Shivaji Science College, Amravati	9420714286
52	Dr GAYATRI DILIP HANDE	gdhande01@gmail.com	Zoology	Shri Shivaji Science College Amravati	9420712775
53	Vaibhavi Rajesh Shende	vaibhavishende49@gmail.com	Forensic science	Shri Shivaji science college Amravati	9579313978
54	Vikas Tukaramji Adlok	avikas2001@gmail.com	Library	Late Dattatraya Pusadkar Arts College, Nandgaon Peth, Amravati	8149771303
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56	Aruna M sudame	aruna.sudame@raisoni.net	Applied Chemistry	G H Raisoni college of engineering, Nagpur	8080422395
30		aruna.sudame@raisom.net			8080422393
57	Gayatri Jaysing More.	moregayu901@gmail.com	dipartment of chemistry	Shri Shivaji Science Collage,Amravati	9921027008
58	Himanshu Anil Tagare	htagare07022001@gmail.com	Chemistry	Shri Shivaji Science College Amravati	7264873933
59	Vedanti Sunil chawande	vedantichawande@gmail.com	Forensic science	Shri Shivaji Science college Amravati	7262822558
60	Himanshu Anil Tagare	htagare07022001@gmail.com	Chemistry	Shri Shivaji Science College Amravati	7264873933
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62	Dr. Nitin H.Bansod	nbansod15@gmail.com	Chemistry	Shri Shivaji Science College, Amravati	9049067697
63	Rutuja Rajendra Junghare	rutujajunghare2001@gmail.com	Forensic science	Shri Shivaji Science College	8530209147
64	Dr.Ashish D.Bansod	ashish.bansod@rssc.edu.in	Chemistry	Rajarshee Shahu Science College Chandur Rly	9890603165
			Department of	Rajarshee Shahu Science	
65	Dr Amol P Thakare	amol.thakare@ rssc.edu.in	chemistry	College, Chandur Rly  Dr. Babasaheb Ambedkar	9665745488
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## Year 2020-2021

\*Topic: Webinar On "Patent: An Introduction, Retrieval and Career Opportunities"\*

\*Time: Oct 14, 2020 11:00 AM India\*

Shri Shivaji Science College, Amravati is inviting you to a scheduled Zoom meeting.

Join Zoom Meeting https://us02web.zoom.us/j/85290455529

\*Meeting ID: 852 9045 5529\* No Password is Required

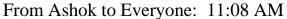
You can join webinar on YouTube Live: https://youtu.be/bVwqd-5JC38

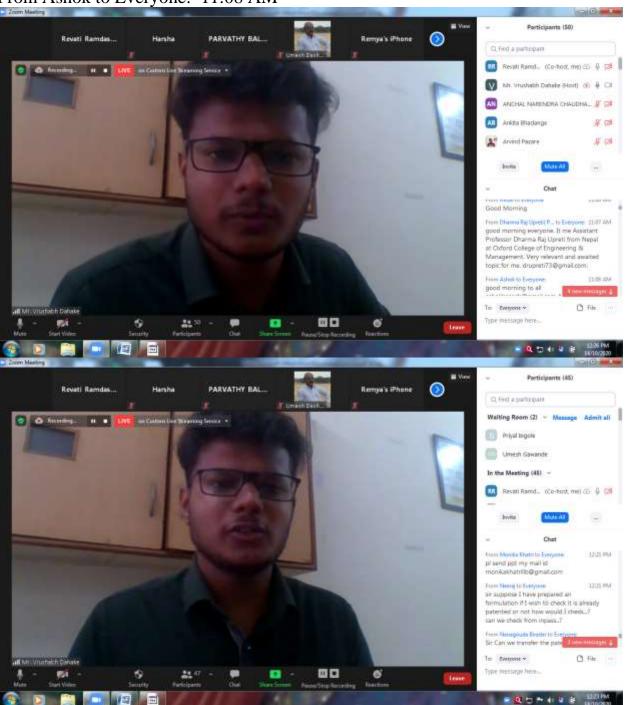
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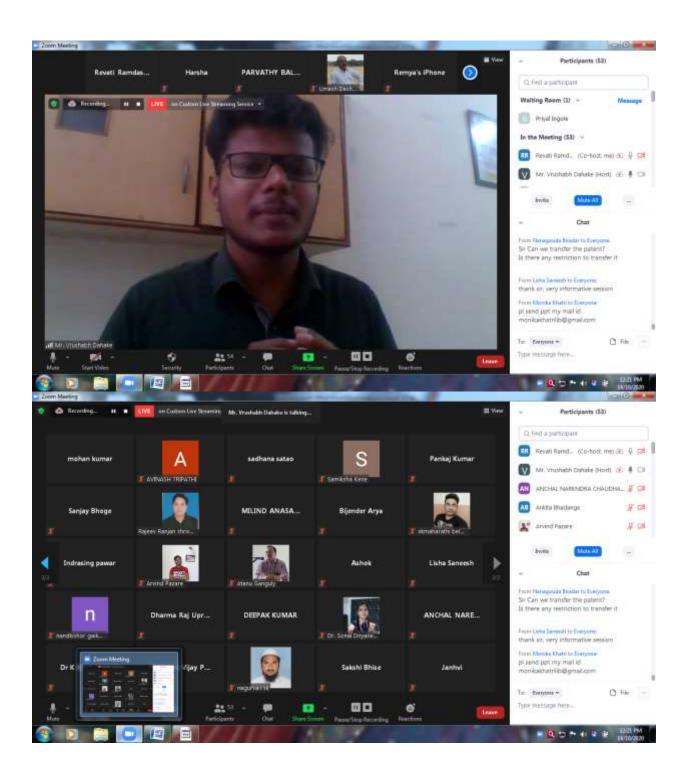
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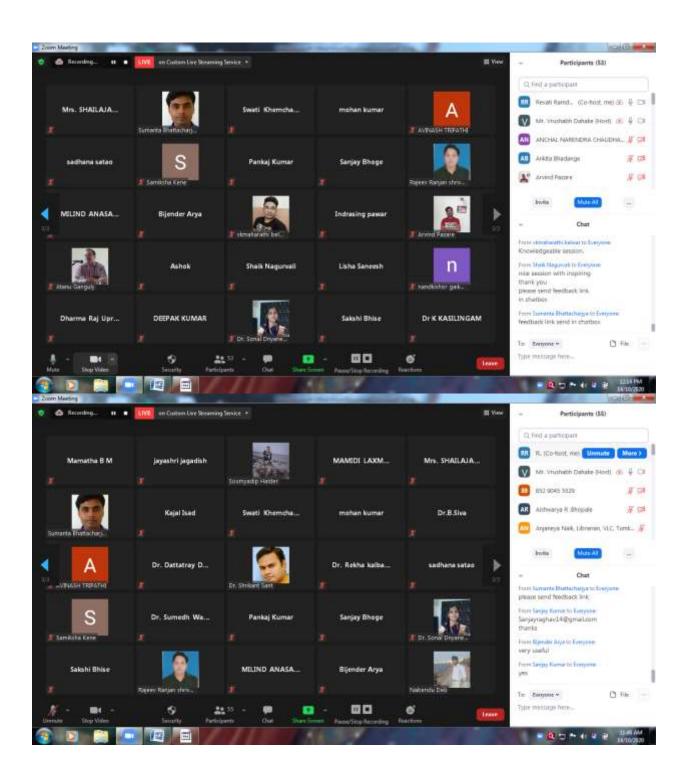


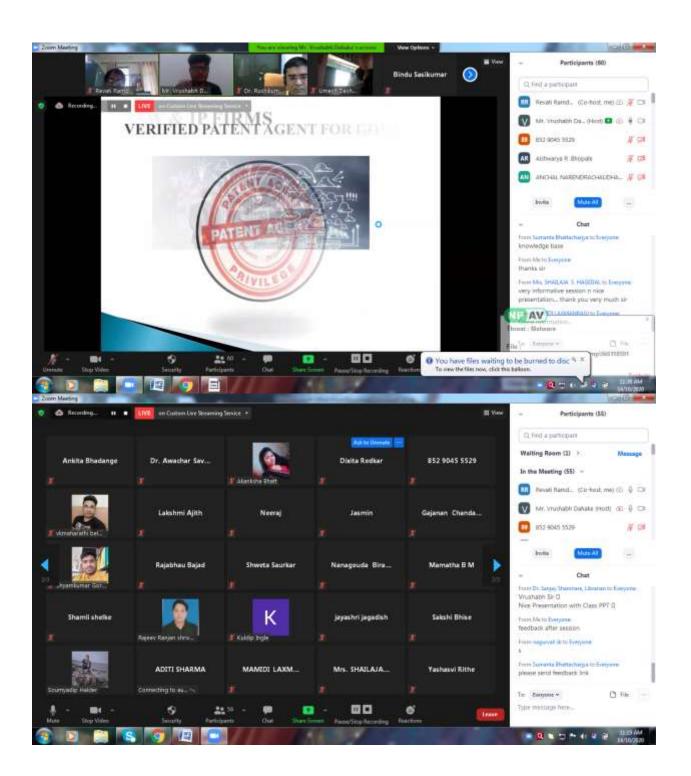
Good morning everyone. It me Assistant Professor Dharma Raj Upreti from Nepal at Oxford College of Engineering & Management. Very relevant and awaited topic for me. drupreti73@gmail.com.

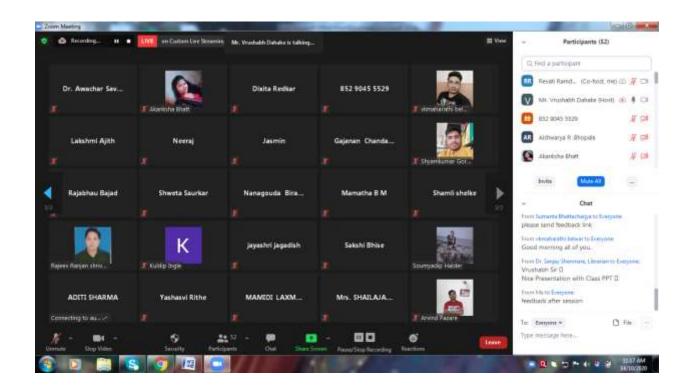












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Shri Shivaji Science College, Amravati

RESEARCH METHODOLOGY COURSE (RMC-21) FOR Ph.D. RESEARCH

SCHOLARS IN FACULTY OF SCIENCE.

Date: 11 and 12 April 2021

**Venue: Department of Chemistry** 

Registered participants: 62

The aim and objectives: The aim of RMC-21 is a way to systematically solve a

research problem. It is a science of studying how research is done specifically. The

workshop is mainly for PhD scholar in order to enhance the knowledge while perusing

PhD and achieve their goal. It was mix reaction to organize such workshop in the

COVID pandemic because of time constraint and to conduct it online mode but any way

it was good response from participant's sides.

Day 1: on day 1 the inaugural function for the inaugural, respected Principal Dr.

V.G.Thakare, Chair The session, Dr. G.N. Chaudhari, Prof and Head Department of

Chemistry, Convener of the workshop and vote of thanks was given by Dr. N.R.

Thakare.

In the workshop Day one has two lectures for the first session, the speaker Dr. Ranjit

Thomas delivers his talk on "Academic writing in Sciences plagiarism citation and

ethics" and second speaker was Dr. N.S.Chandan delivered his talk on "Research

Opportunities in India and abroad "the session was chaired by Dr. A. S. Burghate,

Professor in Chemistry.

For the second session Dr. Payal Joshi, delivered her talk on "preparing a robust

supplementary information research data" The session was chaired by Dr. P.R.Padole,

Professor in Chemistry.

Day 2:

For the first session, the speaker were Dr. Pravin Ingole –IIT Delhi deliver his talk on

"writing your research proposal? Mind some key aspect" and second speaker was Prof.

Vivek Poleshettiwar, TIFR Mumbai delivered his talk on "how to conduct novel and

quality research" the session was chaired by Dr. yogita Thakare

For the second session, the speaker were Dr. H.S. Lunge Professor in Statistics delivered his talk on "Data analytics and its interpretation" and second speaker was Dr. P.R. Bhagat Professor in Chemistry, VIT Vellore deliver his talk on "Importance of research area in Basic sciences and ethics" and the session was chaired by Dr. P. R. Mandlik, Professor in Chemistry.

### The Schedule of the workshop

# Shri Shivaji Science College, Amravati Online Two Days Workshop on RESEARCH METHODOLOGY COURSE(RMC-21) FOR Ph.D. RESEARCHSCHOLARS IN FACULTY OF SCIENCE Date: 11th April 2021 to 12th April 2021 Organized by: Department of Chemistry

Time / Session		Name of the Speaker with Address	Topic to Delivered	Email id	Chairman	
and the second second second second		Date: 11th Ap	nl 2021	The Samuel Committee	The same of the sa	
Session 1 12.15 to 1.00 pm	Speaker-I	Dr. Renjith Thomas Senior Professor Department of Chemistry St. Berchmans College (Autonomous) Changanassery Kerala INDIA	Academic writing in science, Plagiarism, Citations, Ethics	renjithiz sbcollege ac in in- 9544658314	Session 1 Dr. A.S.Burghate	
Session 1 1,00 to 1.45 pm	Speaker 2	Dr. Nandkishor S. Chundan Associate Professor, Vice Principal & Head, Department of Chemistry, Siddhartha College, Mumbai	Research opportunities in India and abroad	nandkishore(jigmail.com M-9867742553	Professor, Department of Chemistry	
Session 2 2.00to2.45 pm	Speaker 3	Dr. Tanvir Arfin Senior Scientist Research Institute (NEERI), IICT Campus, Tamaka, Hyderahad, Telangana, 500007, India	identifying the research areas from the literature review and research database	L_arfinitineeri.res.in M-9579033320	Session 2 Dr. P.R. Padole	
Session 2 2.45 to 3.30pm	Speaker 4	Dr. Payal B. Jushi Department of Basic Sciences, SVKMs NMIMS University, Mulash Patel School of Technology Management & Engineering, (Mumbul Campus)	Preparing a robust supplementary information research data	payal,joshi@mmins.edu 9975289473	Professor, Department of Chemistry	
		Date:12 <sup>th</sup> Apr	1 2021			
Session 1 12,30 to 1.15pm	Speaker I	Dr. Pravin P. Ingole Associate Professor Department of Chemistry Indian Institute of Technology, Delhi	Writing your research proposals? Mind Some key Aspects	ppingolesichemistry jitd ac in M-9582994655	Session I Dr. Atul Maldhur Scientist, NEERI, Nagpur	

Session 1 1,15 to2.15pm	Speaker 2	Prof. Vivek Poleshettiwar Professor 'G' Department of Chemical Sciences, Tata Institute of Fundamental Research, Homi Bhabha Road, Colaba, Mumbai 400005, INDIA	How to conduct novel and quality research?	vivekpol@tift.res.in M-8452886556	
Session 2 2.15-3,00pm	Speaker 3	Dr. H.S. Luage Professor, Department of Statistics, Shri Shivaji Science College, Amravati	Data Analytics and Its Interpretation	hariharlunge@rediffmail.com	Session 2
Session 2 3.00 -3.45pm	Speaker 4	Dr. P. R. Bhagat Professor Department of Chemistry, School of Advanced Sciences, VIT University Vellore Tamil Nadu India-632014	Importance of Research Area in Basic Science and Ethics	dipebhagat 111@gmail.com M-9047289073	Dr. P. R. Mundli Professor, Department of Chemistry

Dr. G.N. Chaudhari Dr. V.G. Thakare
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 Dr. S.P. Ingole

Note: 1) All the Participants are required to submit Feedback Form at the end of Workshop. After which Certificate will be sent on their email. Feedback Link will be sent On WhatsApp Group.

- 2) Link for the Registration of workshop- https://forms.gle/atNB63Z3oNTJCFME9
- All the participants are requested to join WhatsApp Group with following linkhttps://chat.whatsapp.com/F2/WPeUCQSN25gnf50se5J

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# Shri Shivaji Science College, Amravati IQAC 2020-21

# **Training Program for Non-teaching Staff**

Date: 29th October 2021



The training programme for nonteaching staff of the college was organized on 29th October 2021 in A.V. theatre of the college. The training mainly was focused on the office filing system, optimizing time, papers, efforts in maintaining the data and information of students, teachers, and other staff. The Adv. Amol Thakare, Consultant for office administration and IT, was the resource person. He explained in details about how to prepare systematic filing index as per the subject or section, how to place files in proper way so that searching will become easier. Also, he has given the demonstration about maintaining the data for all teacher's nonteaching staff in well planned way.

Adv. Amol Thakare explained the Income Tax rules, deductions, benefits and investment. He answers the queries raised by the staff in details about other official matters of the staff. The IQAC Coordinator Dr. H. S. Lunge, organizing secretary Dr. P.R.Padole and all nonteaching staff including office were present for the workshop.

Dr. H.S. Lunge IQAC Coordinator



# **List of Participants:**

# श्री शिवाजी विज्ञान महाविद्यालय, अमरावती

दिनांक २६.१०.२०२१

# सूचना

महाविद्यालयातील सर्व शिक्षकेतर कर्मचाऱ्यांना सूचित करण्यात येते कि, गुरुवार दिनांक २९.१०.२०२१ रोजी दूपारी ०४.०० वा. एक दिवशीय कार्यशाळा आयोजित केलेली असून यामध्ये शिक्षकेतर कर्मचाऱ्यांना श्री अमोल अरुण ठाकरे हे कार्यालयीन कामकाज संदर्भात मार्गदर्शन करणार आहेत.

तेंव्हा महाविद्यालयातील सर्व शिक्षकेतर कर्मचाऱ्यांनी ओ.व्हि.थिएटर मध्ये या कार्यशाळेसाठी वेळेवर उपस्थित रहावे.

प्राचार्य र्य श्री शिवाजी विक्रोत्ता महाविधातस्य अमेरावती

# श्री शिवाजी विज्ञान महाविद्यालय, अमरावती. शिक्षकेतर कर्मचाऱ्यांची यादी

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Workshop for the Principals and Conveners of Career Counselling Cell of Colleges

30<sup>th</sup> Nov. 2021 at 3.00 PM

Place: Sir C. V. Raman Hall, Shri Shivaji Science College, Amravati

Report

Shri Shivaji Science College, Amravati has taken an initiative to promote special program

launched by Department of Higher and Technical Education, Govt of Maharashtra as the Career

Counselling Programme entitled "करिअर कट्टा" in coordination with Maharashtra Information

Technology Support Centre. This programme envisioned dedicated counselling to the students

for preparation of Civil Services Examinations and Entrepreneurship Development.

The Directors of Higher Education and Technical Education, Maharashtra State and the Joint

Directors of Higher Education and Technical Education from Amravati Region have also

appealed all the colleges to participate in the "करिअर कट्टा". This programme envisioned

dedicated counselling to the students for preparation of Civil Services Examinations and

Entrepreneurship Development.

On this occasion, Career Counselling and Entrepreneurship Development Cell of Shri Shivaji

Science College, Amravati has inaugurated "करिअर कटटा" for the college students, and invited

all the Principals and Conveners of Career Counselling Cell of Colleges affiliated to Sant Gadge

Baba Amravati University for the workshop to facilitate the activities under this program.

The "करिअर कट्टा" was inaugurated by the Chief Guest of the Workshop Hon'ble Shri

Shesharaoji Khade, Secretary, Shri Shivaji Education Society, Amravati. Inaugural session of the

workshop was chaired by Dr. G. V. Korpe, Principal, Shri Shivaji Science College, Amravati. The

other dignitaries like **Hon'ble Dr V. G. Thakare**, Director, Higher Education, Shri Shivaji Education

Hon'ble Dr V. R. Mankar, Joint Director, Technical Education, Amravati Region, Amravati and Hon'ble Shri Yashwant Shitole, President, Maharashtra Information and Technology Support Centre have graced the occasion. Shri Yashwant Shitole elaborated the concept of the "करिअर कट्टा" and the various activities proposed under the same. All the dignitaries appreciated the concept and advocated that, all the colleges much motivate their students to actively involve and reap benefit from the variety of the creative and fruitful programs.

Society, Amravati; Hon'ble Dr Avinash Moharil, Principal, Mahila Mahavidyalaya, Amravati;

In the second session of the workshop, Shri Yashwant Shitole, President, Maharashtra Information and Technology Support Centre, explained expectations, methodology, benefits to the students and colleges; various activities planned under the program, etc. to all the participants. He used online tools to connect all the participants to this project. Dr. Dinesh Khedkar, Convener, Career Counselling and Entrepreneurship Development Cell of Shri Shivaji Science College, Amravati hosted the sessions and Dr. Swapnil Arsad, Member of the Cell proposed vote of the thanks.

The participation for this workshop was very good. 131 Principals and 152 Conveners actively partaken and registered for the "करिअर कटटा".



श्री शिवाजी शिक्षण संस्था, अमरावती द्वारा संचालित

# श्री शिवाजी विज्ञान महाविद्यालय, अमरावती

व्यवसाय मार्गदर्शन व उद्योजकता विकास कक्ष अंतर्गत आयोजित

# करिअर कट्टा



उच्च व तंत्र शिक्षण विभाग, महाराष्ट्र राज्य व महाराष्ट्र माहिती तंत्रज्ञान सहाय्यता केंद्र



यांचा संयुक्त उपक्रमावर आधारीत

# मा. प्राचार्य व समन्वयक कार्यशा

मंगळवार, दि. ३० नोव्हेंबर, २०२१। दुपारी ३ वाजता रथळ : सर सी. व्ही. रमण सभागृह

### - उद्घाटक-

### श्री. शेषरावजी खाडे

सचिव, श्री. शिवाजी शिक्षण संस्था, अमरावती

# - प्रमुख पाहणे -

# डॉ. व्ही. जी. ठाकरे

संचालक, उच्च शिक्षण, श्री. शिवाजी शिक्षण संस्था, अमरावती

# डॉ. मुरलीधर वाडेकर

सहसंचालक, उच्च शिक्षण, अमरावती विभाग

# डॉ. व्ही. आर. मानकर

सहसंचालक, तंत्रशिक्षण, अमरावती विभाग

# श्री. यशवंत शितोळे

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प्राचार्य, श्री. शिवाजी विज्ञान महाविद्यालय, अमरावती

### - विनीत -

व्यवसाय मार्गदर्शन व उद्योजकता विकास कक्ष

श्री. शिवाजी विज्ञान महाविद्यालय, अमरावती













# List of the participating Principals and Conveners

AKOLA/YAVATMAAL

श्री शिवाजी शिक्षण संस्था, अमरावती व्दारा संचालित

#### श्री शिवाजी विज्ञान महाविद्यालय, अमरावती.

व्यवसाय मार्गदर्शन व उद्योजकता विकास कक्षा अंतर्गत आयोजित

#### करिअर कट्टा

महाराष्ट्र राज्य उच्च, तंत्रशिक्षण विभाग आणि माहिती तंत्रज्ञान सहायता केंद्र यांच्या संयुक्त उपक्रमावर आधारित प्राचार्य च समन्वयक कार्यशाळा

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#### उपस्थिती पत्रक

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प्राचार्य व समन्वयक कार्यशाळा वेळ :— ३० नोव्हेंबर २०२१, दुपारी ०३.०० वाजता, स्थळ :— सर सी. व्ही. रमण सभागृह

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महाविद्यालयाचे नाव (In Marathi)	महाविद्यालयाच्या प्राचार्याचे नाव			करियर कट्टा समन्वयकाचे नाव	समन्वयकांचा मो. न.	समन्वयकांचा ई-मेल आयडी	जिल्हा	Sign
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व्यवसाय मार्गदर्शन व उद्योजकता विकास कक्षा अंतर्गत आयोजित

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महाराष्ट्र राज्य उच्च, तंत्रशिक्षण विभाग आणि माहिती तंत्रज्ञान सहायता केंद्र यांच्या संयुक्त उपक्रमावर आधारित प्राचार्य व समन्वयक कार्यशाळा

वेळ :— ३० नोव्हेंबर २०२१, दुपारी ०३.०० वाजता, स्थळ :— सर सी. व्ही. रमण सभागृह

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