Estd. 1958

II Be One with the downtrodden and the underprivileged II

Shri Shivaji Education Society Karad, Board For Higher Education's

YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD

Hon. Yashwantrao Chavansaheb
Founder

Vidyanagar, KARAD - 415 124 Dist. Satara (Maharashtra)

☎ 02164 - 271356, 271357 e-mail : prinyccsk@gmail.com website : www.yccskarad.com

Hon. P. D. Patilsaheb
President up to 17th September 2008

UDISE Code - 27310207715 Index No. - J 21.02.002

Reaccredited B++ Level by NAAC, Bangalore

AN ISO 9001-2015 CERTIFIED COLLEGE REG. NO. : RQ91/5237

Dr. Suryakant Bapu Kengar
Principal

Hon. Shamrao Alias Balasaheb Pandurang Patil MLA
President,
Shri Shivaji Education Society's, Board for Higher Education, Karad

Hon. Altafhusen Nasiruddin Mulla
General Secretary,
Shri Shivaji Education Society's, Board for Higher Education, Karad

Date: 14 & 15 /03/2021

Department of Chemistry

Departmental Activity

2022-23

Name of Activity: Skill Development

Name of the topic: "National Conference on Green Chemistry & Advanced materials." (GCAM-2023)

Guest: Prof.Dr. Manikrao M. Salunkhe (Presedent, Association of Indian Universities, INDIA)
(Ex. Vice Chancellor, Shivaji university, Kolhapur)
(Ex. Vice Chancellor, Bharati Vidyapeeth, Pune)

Prof. Dr. Sanjay K. Sharma (Prof. & Dean (R&D), JECRC University, Jaipur)

Prof. Dr. Vimal shrivastawa (Prof. & Head, Dept. of Chemical Engineering, IIT Roorkee)

Prof. Dr. B. B. Kale (Director, C-MET, Pune)

Index

Sr. No.	Documents
1.	One page report of the Activity
2.	Correspondence
3.	Attendance
4.	Feedback
5.	Feedback analysis

Head
Department of Chemistry
Yashwantrao Chavan College of Science, Karad

Principal,
Yashwantrao Chavan College of Science, Karad

Yashwantrao Chavan College of Science ★ CHEMISTRY ★ Karad

Yashwantrao Chavan College of Science, Karad

NAAC Awareness Programme - Activity Report

Name of Department: Chemistry	**Date of activity :** 14/03/2023 & 15/03/2023

Name of the capability enhancement scheme : Skill development

Guest: Prof. Dr. Manikrao M. Salunkhe, (President, Association of Indian Universities, India).
(Ex. Vice Chancellor, Shivaji University, Kolhapur).
(Ex. Vice Chancellor, Bharati Vidyapeeth, Pune).

Prof. Dr. Sanjay K Sharma, (Prof. & Dean (R&D), JECRC University Jaipur).

Prof. Dr. Vimal Shrivastawa, (Prof. & Head, Department of Chemical Engineering, IIT Roorkee).

Prof. Dr. A. K. Satpati, (Scientist, Analytical Chemistry Division BARC, Mumbai).

Prof. Dr. B B. Kale, (Director, C-MET, Pune).

Name of the topic: National Conference on Green Chemistry & Advanced Materials (GCAM-2023).

Purpose :	1. To aware students about green chemistry & advanced materials. 2. To aware students about sustainable development 3. To bring together people with common interests and discuss issues and ideas relating to importance of advanced materials in green chemistry. 4. To aware students about importance and benefits of advanced materials in pollution control.
No. of beneficiaries :	300
Class involved :	B. Sc. III, M.Sc. I & II
Outcome/ success achieved :	1. Students aware for green chemistry and advanced materials. 2. Students got some ideas how advanced materials can help in sustainable development.
Teachers/ Guest involved in the activity	Prin. Dr. S. B. Kengar Prof. Dr. S. H. Burungale Prof. Dr. A. V. Mali Dr. R. S. Patil Dr. U. P. Lad Dr. S. D. Jadhav Mr. S. D. Karande Dr. Mrs. M. B. Jagadale
Geo-tag photo	

Head
Department of Chemistry
Yashwantrao Chavan College of Science, Karad

Yashwantrao Chavan College of Science ★ KARAD ★

Principal
Yashwantrao Chavan College of Science, Karad

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☎ 02164 - 271356, 271357 Fax : 02164-271356, e-mail : prinyccsk@gmail.com

Reacredited B++ Level by NAAC, Bangalore

AN ISO 9001-2015 CERTIFIED COLLEGE REG. NO. : RQ91/5237

Date: 14/03/2023

To,

Prof. Dr. Manikrao M. Salunkhe
President, Association of Indian Universities, India.
Ex. Vice Chancellor, Shivaji University, Kolhapur.

Subject- Letter of Appreciation

Respected Sir,

We are very much thankful for delivering lecture in guest lecture on in **"National Conference on Green Chemistry & Advanced Materials" (GCAM-2023),** which will be held on 14th & 15th March 2023 in Yashwantrao Chavan college of Science, Karad, Satara (Maharashtra). The lecture is very nice for our students and us.

We are very grateful for acceptance of our invitation and enlightening the occasion with excellent talk & presentation.

Thanks a lot.

Yours faithfully,

Yashwantrao Chavan College of Science ★ Karad ★ CHEMISTRY

Head
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Yashwantrao Chavan College of Science, Karad

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AN ISO 9001-2015 CERTIFIED COLLEGE REG. NO. : RQ91/5237

Date: 03/03/2023

Letter of invitation

To,

Prof. Dr. Manikrao M. Salunkhe
President, Association of Indian Universities, India.
Ex. Vice Chancellor, Shivaji University, Kolhapur.

Subject- Invitation as a Chief Guest for National E Conference

With respect to the subject mentioned above we invite you as chief guest in **"National Conference on Green Chemistry & Advanced Materials" (GCAM-2023)**, which will be held on 14th & 15th March 2023 at 09.00 am in Yashwantrao Chavan college of Science, Karad, Satara (Maharashtra) via online mode. We welcome you to join us and share your knowledge and the views on advance theme of Green Chemistry & Advanced Materials.

We believe this conference will be highly rewarding educational and networking experience to all.

I once again request you herewith to accept our invitation.

Thanking you,

Yours faithfully,

Yashwantrao Chavan College of Science ★ Karad ★ CHEMISTRY

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Date: 03/03/2023

Letter of invitation

To,

Prof. Dr. Sanjay K. Sharma
Prof. & Dean (R&D),
JECRC University Jaipur.

Subject- Invitation as a speaker for National E Conference

With respect to the subject mentioned above we invite you as chief guest in **"National Conference on Green Chemistry & Advanced Materials" (GCAM-2023)**, which will be held on 14th & 15th March 2023 at 09.00 am in Yashwantrao Chavan college of Science, Karad, Satara (Maharashtra). We welcome you to join us and share your knowledge and the views on advance theme of Green Chemistry & Advanced Materials.

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Date: 03/03/2023

Letter of invitation

To,

Prof. Dr. B. B. Kale
Director,
C-MET, Pune.

Subject- Invitation as a speaker for National E Conference

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Date: 15/03/2023

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C-MET, Pune.

Subject- Letter of Appreciation

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Date: 03/03/2023

Letter of invitation

To,

Prof. Dr. A. K. Satpati
Scientist, Analytical Chemistry Division,
BARC, Mumbai.

Subject- Invitation as a speaker for National E Conference

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Date: 03/03/2023

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Prof. Dr. Vimal Shrivastava
Professor & Head,
Department of Chemical engineering,
IIT, Roorkee.

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Date: 14/03/2023

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Prof. Dr. Vimal Shrivastava
Professor & Head,
Department of Chemical engineering,
IIT, Roorkee.

Subject- Letter of Appreciation

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Yashwantrao Chavan College of Science ★ Karad ★ CHEMISTRY

Head
Department of Chemistry
Yashwantrao Chavan College of Science, Karad

NATIONAL CONFERENCE
ON
"GREEN CHEMISTRY & ADVANCED MATERIALS"
14th &15th March 2023
ORGANIZED BY
DEPARTMENT OF Chemisty and IQAC

* Feed Back Form *

1) Name of the Participant Dange pratiksha kumar
2) College / Institute / Industry Rajarambapu college of pharmacy, Kasegaon.
3) Designation Student.
7) E-mail id pratikshadange245@gmail.com
8) Mobile No. 9545126624

Please respond to each of the following questions, they are intended to allow u to improve specifics of the workshop. Take your time in order to provide us with the most accurate assessment of your experience.

Instruction : Please Tick Mark within the box

Questions	Excellent	Good	Satisfactroy
1. The overall arrangement	✓		
2. Subject matter of the Conference	✓		
3. Applicability of the topic in Research		✓	
4. Effectiveness of the Conference	✓		
5. The Conference content was challenging	✓		
6. Overall Discussion with the speakers	✓		
7. Speech of Resource Persons	✓		

Suggestions if any : Mangment system is very good.

Yashwantrao Chavan College of Science Karad CHEMISTRY

Dange
Signature of the Participant

NATIONAL CONFERENCE
ON
"GREEN CHEMISTRY & ADVANCED MATERIALS"
14th &15th March 2023
ORGANIZED BY
DEPARTMENT OF Chemisty and IQAC

* Feed Back Form *

1) Name of the Participant Ramugade Priyanka Prakash
2) College / Institute / Industry Rajarambapu college of pharmacy, Kasegaon
3) Designation Student
7) E-mail id priyankaramugade4@gmail.com
8) Mobile No. 9049448055

Please respond to each of the following questions, they are intended to allow u to improve specifics of the workshop. Take your time in order to provide us with the most accurate assessment of your experience.

Instruction : Please Tick Mark within the box

Questions	Excellent	Good	Satisfactroy
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2. Subject matter of the Conference	✓		
3. Applicability of the topic in Research	✓		
4. Effectiveness of the Conference	✓		
5. The Conference content was challenging	✓		
6. Overall Discussion with the speakers	✓		
7. Speech of Resource Persons	✓		

Suggestions if any : Management is good, food quality excellent,

Yashwantrao Chavan College of Science Karad CHEMISTRY

Ramugade

Signature of the Participant

NATIONAL CONFERENCE
ON
"GREEN CHEMISTRY & ADVANCED MATERIALS"
14th &15th March 2023
ORGANIZED BY
DEPARTMENT OF Chemisty and IQAC

* Feed Back Form *

1) Name of the Participant Pooja Shashikant Hawaare.
2) College / Institute / Industry Y. C. college of science, karad.
3) Designation Student
7) E-mail id Poojahawaare2000@gmail.com
8) Mobile No. 7499967113

Please respond to each of the following questions, they are intended to allow u to improve specifics of the workshop. Take your time in order to provide us with the most accurate assessment of your experience.

Instruction : Please Tick Mark within the box

Questions	Excellent	Good	Satisfactroy
1. The overall arrangement	✓		
2. Subject matter of the Conference	✓		
3. Applicability of the topic in Research	✓		
4. Effectiveness of the Conference		✓	
5. The Conference content was challenging		✓	
6. Overall Discussion with the speakers	✓		
7. Speech of Resource Persons		✓	

Suggestions if any : No.

Yashwantrao Chavan College of Science Karad CHEMISTRY

Signature of the Participant

NATIONAL CONFERENCE
ON
"GREEN CHEMISTRY & ADVANCED MATERIALS"
14th &15th March 2023
ORGANIZED BY
DEPARTMENT OF Chemisty and IQAC

* Feed Back Form *

1) Name of the Participant Pawar Rasika Nana
2) College / Institute / Industry Y. C. C. S Karad.
3) Designation Student
7) E-mail id Pawarrasika886@gmail.com
8) Mobile No. 9825019961

Please respond to each of the following questions, they are intended to allow u to improve specifics of the workshop. Take your time in order to provide us with the most accurate assessment of your experience.

Instruction : Please Tick Mark within the box

Questions	Excellent	Good	Satisfactroy
1. The overall arrangement	✓		
2. Subject matter of the Conference		✓	
3. Applicability of the topic in Research		✓	
4. Effectiveness of the Conference	✓		
5. The Conference content was challenging			✓
6. Overall Discussion with the speakers	✓		
7. Speech of Resource Persons	✓		

Suggestions if any : _____

Yashwantrao Chavan College of Science * Karad * CHEMISTRY

Signature of the Participant

NATIONAL CONFERENCE
ON
"GREEN CHEMISTRY & ADVANCED MATERIALS"
14th &15th March 2023
ORGANIZED BY
DEPARTMENT OF Chemisty and IQAC

* Feed Back Form *

1) Name of the Participant Jagtap Vaishnavi Prakash
2) College / Institute / Industry Yashwantrao Chavan college of science karad
3) Designation
7) E-mail id jagtapvaishanvi1@gmail.com
8) Mobile No. 9158317051

Please respond to each of the following questions, they are intended to allow u to improve specifics of the workshop. Take your time in order to provide us with the most accurate assessment of your experience.

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Questions	Excellent	Good	Satisfactroy
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3. Applicability of the topic in Research	✓		
4. Effectiveness of the Conference		✓	
5. The Conference content was challenging	✓		
6. Overall Discussion with the speakers	✓		
7. Speech of Resource Persons	✓		

Suggestions if any :

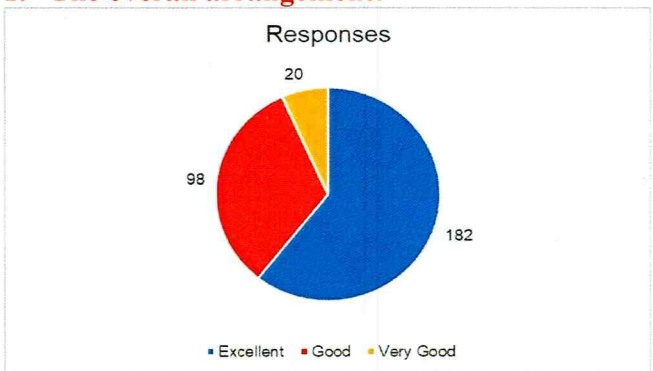
Yashwantrao Chavan College of Science ★ Karad ★ CHEMISTRY

Signature of the Participant

Feedback Analysis

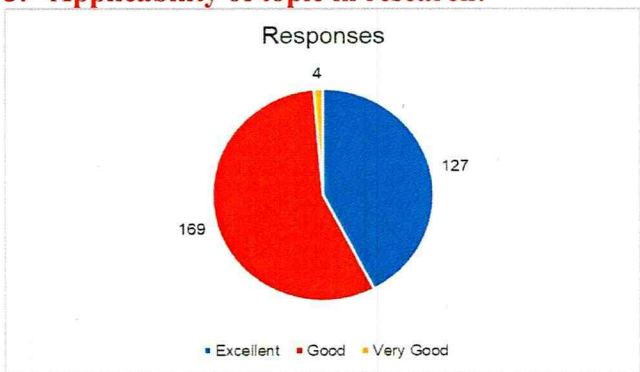
Name of the activity: National Conference on Green Chemistry & Advanced Materials (GCAM-2023).

1. The overall arrangement:

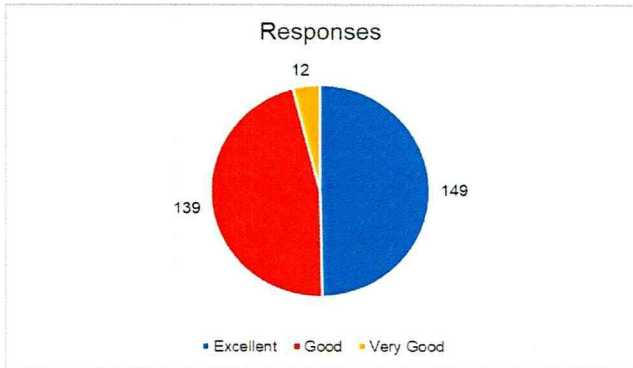


2. The subject matter of conference:

3. Applicability of topic in research:



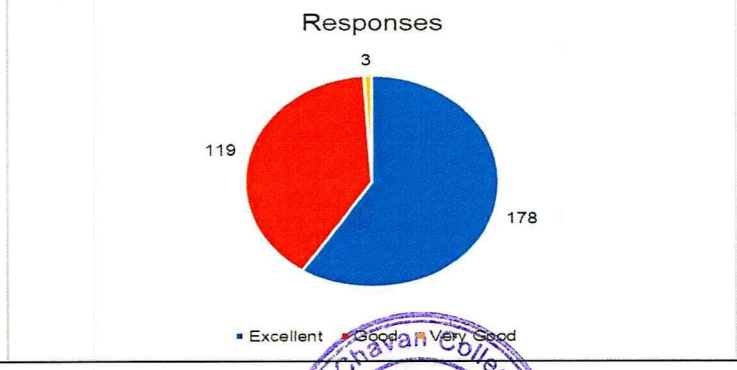
4. Effectiveness of conference:



5. The conference content was challenging?

6. Overall discussion with the speaker

7. Speech of resource person



Date: / /20

MON TUE WED THU FRI SAT SUN

Sr.No.	Name of the participant	Name of the college	M
1	Dr. More. U.B.	S.G.M. College, Karad.	
2	Dr Arvind Tapase	Balwant College, Vita	
3	Dr Ashish Sartape	Balwant College, Vita	
4	Dr. Sanadi K.R.	Doodhsakhar Mahavidyalaya, Bidri Tal. Kagal Dist - Kolhapur	
5	Yashpal Uttam Rathod		
6	Sunil Bapurao Zanje		
7	krishna N. Alsundkar		
8	Dr. Patil S.M.		

Date: / /20

MON TUE WED THU FRI SAT SUN

Mobile No.	e-mail	Amount	Sign.
		500	
		500	
		500	
		500	
		500	
		500	
		500	

Date: / /20

MON TUE WED THU FRI SAT SUN

9	Chougale U.B.	
10	Kharade P.R.	
11	~~Sachin Dipak Zimar~~ Arjun Narayanrao Bhingare	~~Balasaheb Desai college, Patan~~ Y.C. College of Science, Karad
12 ✓ UBD	Dr. Radhakrishna Machhindranath Tigote	BAMU, Sub campus Osmanabad.
13 ✓ UBD	Shri Rameshwar Kacharu Dongare	Ahmednagar College, Ahmednagar
14 ✓	Shri Gajanan Bhagwat Dhake	Yashwantrao Chavan college of Science, Karad.
15	~~Miss~~ Kishor Gaikwad	
16 ✓	Th[illegible]andrao	Yashwantrao Chavan College of Science, Karad

Yashwantrao Chavan College of Science ★ Karad ★ CHEMISTRY

VIRAG

Date: / /20

MON TUE WED THU FRI SAT SUN

			Fee paid
		500	
		500	
7972166190	arjun.bhingare@rediffmail.com	500	
		500	
		500	
		500	
		500	
		500	

Date: / /20

MON TUE WED THU FRI SAT SUN

Sr No	Name of the participant	Name of the college	
17	Giri	G. K. G. College, Kolhapur	
18	Dr. ~~Sou~~. Kirtane Sushma Anandrao	Yashwantrao Chavan College of Science, Karad.	
Spot registration 19 8/11/2020	Dr. Kadam Mohan Ramchandra	Balasaheb Desai College, Patan	
20	Dr. Kamble Balkash D.	Balasaheb Desai College, Patan	
21 (113)	Dr Gaikwad G. A.	Shrimant Babasaheb Deshmukh Mahavidyalaya, Atpadi	9
22	Dr Sharda Jagade-Gadale	Y. M. College, Pune.	
23 ✓	Shri. Chavan Mahendra Sadashiv.	S. B. R. College, Mhaswad	71
24 ✓	Dr. S. M. Khetre Dr. Sanjay Mahadeo Khetre	Dahiwadi college Dahiwadi	94

Yashwantrao Chavan College of Science Karad CHEMISTRY

VIRAG

Date: / /20

MON TUE WED THU FRI SAT SUN

Mobile No.	e-mail	Amount	Sign.
		500	
9881399944		500	
9420628666	drmohankadam@rediffmail.com	500	
9421212993		500	
9423272454		500	
9860382361	ramjasayyad91@gmail.com	500	
7499789834		500/-	
9423911374	sanjaykhetre@gmail.com	500/-	

Yashwantrao Chavan College of Science ★ Karad ★ CHEMISTRY

Date: / /20

MON TUE WED THU FRI SAT SUN

25.	Dr. Kalantre V.A.	Balasaheb Desai College, Patan	9
26.	Dr. Kishor V. Gaikwad	R.C. Shahu College, Kolhapur	
27.	Dr. Tanaji N. Bansode	B.N.N. College Bhiwandi, Dis - Thane	
28.	Dr. Rajkumar U. Pokalwar	Degloor College, Degloor	
29	Dr. Prakash A. Bansode	Sangola college ~~Sangola~~	
30	Dr. Bharat G. Pawar	Sangola college sangola	
~~31~~	~~Dr. Attaphusen G. Naikwade (Tasildar)~~	~~Shivraj college, Gadhinglaj~~	
32	Dr. Shrikrishna Sarhale	Karmaveer Bhaurao patil College, pandharpur	96

Date: / /20

MON TUE WED THU FRI SAT SUN

9075168412	—	500/-	
9175916272	—	500/-	
—	—	500/-	
		500/- (online transfer to SBI)	
		500/-	
		500/-	
		500/-	
9657801857		500/-	

Date: / /20

MON TUE WED THU FRI SAT SUN

32.	Sachin K. Dhawale	Applied Sciences & humanities, Institute of Tech. Ked	De
33.	Charan Vikrant Udaysinh	Krishna Mahavidyalaya, Rethare Bk. Tal- Karad.	De
34. ✓	Shri Dipak Ganesh Kalekar	Raja shripatrao Bhagwantrao Mahavidyalaya, Aundh.	D. 9 9
35.	Dr. S.R. Sabale	Jaysingpur College, Jaysingpur	8D 93
36.	Dr. S.J. Mane-Garade	Jaysingpur College, Jaysingpur	9:
37.	Mr. R.D. Tasgaonkar	Jaysingpur College, Jaysingpur	98
38.	Miss. Varsha Lalasaheb Kamble	Krishna Mahavidyalaya, Rethare Bk.	89
39. ✓	Dr. S.B. Kamble	Y.C.I.S. Satara	9

Yashwantrao Chavan College of Science ★ Karad ★ CHEMISTRY

Date: / /20

MON TUE WED THU FRI SAT SUN

. Dept. Gharda	-	500/-	-
Dept. of chemistry. 9130512255 9730745195	chavanvikrant66@gmail.com.	500/-	
Dept. of chemistry. 9096855396 9423803686	dgkalekar212@gmail.com	500/-	
Dept of Chemistry 9371594299	srsabale@gmail.com	500/-	
9762629792	smanegavade@gmail.com.	500/-	
9881076725		500/-	
8956952918	Kamblev1123@gmail.com.	500/-	
9823524565	-	500/-	

Date: / /20 MON TUE WED THU FRI SAT SUN

40	Dr. Hanamant Vasant Jadhav	Kisan Veer Mahavidyalaya Wai
41. ✓	Dr. Sandip Vinayak Mahamuni.	S. G. M. College, karad.
42 ✓	Prof. Mrs. Anita. Sivsyakumar Salunkhe.	S. G. M. College, karad.
43	Dr. Omprakash Tukaram SANGVE	Smt. Kasturbai Walchand college, Sangli
44	Dr. A. M. Nalawade	Lal Bahadur Shastri College of Arts, Science & Commerce, Satara
45	Mrs. Patil S.V	Yashwantrao chavan college of science. karad
46	Thorat S.B.	Yashwantrao chavan college of science, karad
47. ✓	Mrs. Jagadale P.A.	〃 〃

Yashwantrao Chavan College of Science CHEMISTRY

VIRAG

Date: / /20

MON TUE WED THU FRI SAT SUN

Chemistry Dept.			500/-
Chemistry Dept.	sandipmahamuni@yahoo.co.in		500/-
Chemistry			500/-
Chemistry	omsangule@rediffmail.com		500/-
Chemistry	ranalawade12@gmail.com navinash1170@gmail.com		
CHEMISTRY	Sharvaripatil28@gmail.com	-	500/-
chemistry	sunitacharan85@gmail.com	-	500/-
chemistry	jagdalepriyanka[illegible]@gmail.	-	500/-

Yashwantrao Chavan College of Science ★ Karad ★ CHEMISTRY

Date: / /20

MON TUE WED THU FRI SAT SUN

Sr. No	Name of the Participants	Name of The College
48	Miss. Patil. P. V.	Yashwantrao Chavan College of science Karad.
49	Miss. Jadhav. P. S.	—— 11 ——
50	Dr. Sore Sanjay Vishnu	B.V.S. M.B.S.K Kanya Mahavidyalaya Kadegaon
51.	Dr. Rajkumar Shahaji Pandav	Y.C.W.M. Warananagar Tal- Panhala Dist- Kolhapur
52.	Dr. Bajirao Sattappa Shirke	—— 11 ——
53	Dr. Raghunath K. Mane	K.R.P. Kanya Mahavidyalaya Uran-Islampur
54	Mr. sandeep B. Wategaonkar	sanjay Ghodawat polytechnic
55.	Dr. T. J. shinde. (Receipt No. 150)	KRP, kanya mahavidyalaya islampur
55	50 × 500 = 25000	
56	Arpana Rushi Motghare	Y.C. College of Science, Karad-
57	Shobha Atmaram Thorat	
58	Shobha Vikas Patil	
59	Sanjay Laxman Mahamuni	
60	Dipak Suresh Gurav	

60 × 500 = 30,000

Yashwantrao Chavan College of Science

ANB – 11
GBD – 14
SHB – 1

AGT —— 16
Pratibha Patil — 48
Priyanka Jadhav — 49

VIRAG

Date: / /20

MON TUE WED THU FRI SAT SUN

	Sub	Email ID	Sign	fee paid
	chemistry	pratibhadesai991@gmail.com		500/-
	—11—	pj32062@gmail.com.		500/-
	chemistry	poreesanjay67@gmail.com		500/-
	Chemistsy	rajkumarpandav@gmail.com		500/-
	—11—	bss_chemistry@yahoo.com		500/-
	chemistry	rmane1970@rediffmail.com		500/-
	chemistry	sandip.wate@gmail.com		500/-
	physics.	as_uday@rediffmail.com		500/-
				500/-
	Chemistry			500/-
	Junior staff.			500/-
				500/-
				500/-

Yashwantrao Chavan College of Science ★ CHEMISTRY ★ Karad

VIRAG

Date: / /20

MON TUE WED THU FRI SAT SUN

Sr.No.	Name of the teacher	Name of the college / Uni / Institute	I
1	Prof. (Dr.) Ankush Vithoba Mali	Yashwantrao Chavan College of Scienc Karad	C
2	G. B. Dhake	Yashwantrao Chavan college of Science, karad	C
3	Arjun Narayanrao Bhingare	Yashwantrao Chavan College of Science, Karad.	C
4	Dr. S. D. Jadhav	"	
5	Dr. B. E. Mahadik	— " —	
6	Dr S. H. Burungale	"	
7.	Dr. R. S. Patil	"	
8.	Dr. V. P. Lad	"	
9.	Mr. S.D. Karande	"	
10.	Dr. Mrs. M. B. Jagadale	"	
11	Patil. P. P	"	

Yashwantrao Chavan College of Science ★ Karad CHEMISTRY

VIRAG

Date: / /20

MON TUE WED THU FRI SAT SUN

	Department	Mob. No. & email	Amount	Sign
	Chemistry	8668696170 ankushvmali@gmail.com	700/-	
	Chemistry	9850130950 gajanan-dhake@gmail.com	700	
	Chemistry	7972166190 arjun.bhingare@rediffmail.com	700/-	
	"	8208591793 sdjchemsuk@gmail.com	700	
	"	9209169954 drbhaeatmahadik@gmail.com.	700/-	
	"	9359723902 shivajiburungale777@gmail	700	
	"	7620222010 rspatil1094@gmail.com	700/-	
	"		700/-	
	"	8796452023, sudipsdk2020@gmail.com	700/-	
	"	9307484481, megha9627@gmail.com 23	700/-	
	"	9168459547, PPpatil303@gmail.com	700/-	

Yashwantrao Chavan College of Science ★ Karad ★ CHEMISTRY

VIRAG

Date: / /20

MON TUE WED THU FRI SAT SUN

Sr No.	Name of the teacher	Name of the college / Uni / Institution	S
12	Panwal N.R	—11—	Ch
13	Veer S.R	—11—	—
14	Sutar Kishor	—11—	M
15	Mr. Anandrao G. Thorat	—11—	Cl
16	Dr. Vishwambar P. Shinde	—11—	
17	Dr. Ramija J. Sayyad		
18 bag	Mr. Mahamuni S. L	Yashwantrao Chavan college of scienie karad . Jr.	Ch
19	Mr. Adsul S. A. S.	—11—	Ch
20 bag	Mr. Tamboli S.M	—11—	—
21	Mr. Gurav O. S	—11—	
22	Smt. Motghare A.R	—11—	

Yashwantrao Chavan College of Science CHEMISTRY

VIRAG

Date: / /20

MON TUE WED THU FRI SAT SUN

	Department	Mob. No. & email		Amount	Sign
	chemistry	7040793312, NehaP3616@gmail.com		700/-	NPP
	— " —	7875585570 sushmaveer126@gmail.com		700/-	SRV
	Microbiology		1	700/-	
	chemistry		2	700/-	
				500/-	
				500/-	
	Chemistry	9422207755	3	700/-	
	Chemistry	9404413202	4	700/-	
	— " —	7588864945	5	700/-	
		7276041904	6	700/-	
		9404406649	7	700/-	

Yashwantrao Chavan College of Science ★ Karad ★ CHEMISTRY

VIRAG

Date: / /20

MON TUE WED THU FRI SAT SUN

Sr. No.	Name of the teacher	Name of the college / Uni / Institution	De
reading			
23 bag	Mrs. Patil S.V	— " —	—
24 bag	Mrs. Patil S.V Sharwasi	— " —	—
25 bag	Smt. Thorat S.B.	— " —	—
26 bag	Mrs. Jagadale P.A	— " —	—
reading 27 bag.	Mrs. Desai P.M	— " —	—
28 bag	Smt. Jadhav P.S.	— " —	—
29 bag	Smt. Nayakwadi. S.S	— " —	—
30	Dr. Savita A patil	Govt. college of Engg. karad	Ph
31	Patil Priyanka. M	— " —	Ch.
32	Prof. Dr. M.M. Salunkhe		
33	Prof. Dr. A.K. Satpati,		

Yashwantrao Chavan College of Science Karad

VIRAG

Date: / /20

MON TUE WED THU FRI SAT SUN

Sr.	Department	Mob. No. & email		Amount	Sign
	"	9284189585	8	700/-	
	"	9096579725	9	700/-	
	"	7020143644	10	700/-	
	"	8408044144	11	700/-	
	"	8669709191	12	700/-	
	"	7219419001	13	700/-	
	"	7555915091 5	14	700/-	
	Physics	9421262698	15	700/-	
	Chemistry	9112405796		500/-	

Yashwantrao Chavan College of Science ★ Karad ★ CHEMISTRY

VIRAG

Date: / /20

MON TUE WED THU FRI SAT SUN

Sr.No	Name of the Teacher	Name of the college/Uni/Institution	De
34	Prof. Dr. Sanjay Sharma		
35	Prof. Dr. Dipak Pinjari		
*			
36	Sadhana Ramchandra Salunkhe	Gov. Colleg. Eng	Ph-
37	Harshada Bhagawan Garud	Balasaheb Desai, college, PATAN	Ch
38	Mrs. Pujari Manisha. Arjunrao	Yashwantrao Chavan college of scien	ce E
39	Mr. Akshay Ramchandra Yadav	Rajarambapu College of pharmacy, Kasegaon.	ph Ka
40	Miss Pranali Pramod Lade	Rajarambapu college of pharmacy, Kasega	Pl Cl
41	Gayali Shankar Jadhav	Rajarambapu college of pharmacy Kasegaon.	Pl Ch
42	Sakate Makarand Kashinath	M.Th. collage, panchagani	Che
43	Gayali Mali	Rajarambapu College of pharmacy Kasegaon	Plce C
44	Dipak Ganesh Kalekar	Raja shripatrao Bhagwantrao Mahavidyalaya, Aundh	D

Date: / /20

MON TUE WED THU FRI SAT SUN

Department	Mob. No. & ~~cell~~ e mail	Amount	Sign
Physics	8888738109	500/-	
chemistry	9881885750	Online 500/-	
ce Botany	9822450444 16	700/-	
pharmaceutical ~~Kota~~ chemistry	9767322316	500/-	
pharmaceutical chemistry	8080222318	500/-	
pharmaceutical chemistry	7620303140	500/-	
chemistry	9970541510	500	
pharmaceutical Chemistry	7798480930	500/-	S.B. Mole
Inorganic chemistry	9096855396	700/- online	

Yashwantrao Chavan College of Science ★ Karad ★ CHEMISTRY 17

Date: / /20

MON TUE WED THU FRI SAT SUN

Sr No.	Name of the Teacher	Name of the college / Uni / Institution	De
45	Mr. Nagesh D. Pawar	Vaze College Mulund Mumbai	Ch
46	Dr Kirtane Sushama A.	Yashwantrao Chavan College of Science, Karad	Bo
47	Dange pratiksha kumar	Rajarambapu college of pharmacy, Kasegaon	pha che
48	Nayakal Prajakta Dhangjirao	Rajarambapu College of Pharmacy, Kasegaon	Ph Ch
49	Ramugade Priyanka P.	Rajarambapu college of pharmacy Kasegaon	P'ce ch
50	Bhosale Rutuja pradip	Yashwantrao Chavan college of science	
51	Dr Trupti Lende	Rajyarambapu Pharmacy college, Kasegaon	K
52	Miss. Ashwini D. Patil	K.R.P. kanya mahavidyalaya, Islampur	Phy
53	Dr. Tukaram J. Shinde	K.R.P. kanya mahavidyakeya, Islampur	ph
54	Mr. Attar Suraj Rafik	Y.C.I.S. Satara	ch
55	Mr. Ajit Patil	T.K.C.P. Waranagar, Kolhapur	Pl

Yashwantrao Chavan College of Science CHEMISTRY

VIRAG

Date: / /20

MON TUE WED THU FRI SAT SUN

	Department	Mob. No. & email	Amount	Sign
	Chemistry.	9096160586 sendtonagesh@gmail.com	500-online 34335129886	
	Botany	18 9881399944 kirtemesa@gmail.com	700/-	
	pharmaceutical chemistry M.pharm	8208316021 Prasikshadange245@gmail.com.	500/-	Kdange.
	Pharmaceutical chemistry M.pharm	9284048237 Prajaktanayakal266@gmail.com	500/-	Nayakal.
	P'ceutical chemistry - M.P	9049448055 priyankaramugade4@gmail.com	500/-	Ramugade
	Karad	7499680734 rutujabluesale1096@gmail.com	500/-	Bluesale
	Kasegaon	97673 68195 19 trupti plude@gmail.com	700/-	
	Physics	9970274963 as_uday@rediffmail.com	300/-	
	Physics	9970274963 20 as_uday@rediffmail.com	700/-	
	chemistry	8007328016 surajattar.chem@gmail	500/-	
	pharmacy		500/- (online)	

Yashwantrao Chavan College of Science
CHEMISTRY
Karad

VIRAG

Date: / /20

MON TUE WED THU FRI SAT SUN

56.	Dr. Sandeep Kane	R C P. Kasegaon
~~57.~~	~~Kirti Anil Yadav.~~	~~Yashwantrao Chavan College of Science, Karad~~
57)	Kirti Anil Yadav	Yashwantrao chavan College of Scienq Karad.
58)	Sampada Sudam Shinde.	— " —
59)	Dr. Avinash Anand Raut	Yashwantrao Chavan College of Science, Karad
60)	Dr. J. V. Patil	Y. C. C. S. Karad
61	Mr. Vyankatesh R. Dharanguttikar	Rajarambapu College of Pharmacy, Kasegaon.
62.	Altafhusen G. Naikwade	Shivaji College Gadhinlaj
63.	Prof (Dr.) R. K. Mane	KRP Kanya college, Islam pu

Raut

Yashwantrao Chavan College of Science ★ Karad ★ CHEMISTRY

Date: / /20

MON TUE WED THU FRI SAT SUN

	9011012108		500/-	
kara				
eng Microbiology	8087236706		500/-	
—11—	8956838064		500/-	
Microbiology	9503606777		500	
—11—	9370304428		500	
Pharmacy,	9284973048		500/-	
Chem.	—	21	700/- Online	
u pur	—	22	700/-	

Yashwantrao Chavan College of Science Karad
CHEMISTRY

VIRAG

Sr.No.	Name of the participant	Name of the college.
1	Ratnapaekhi Mrunal Prashant	YCCS, Karad
2	Dubal Saurabh Shivaji	
3	Jadhav Akash Ashok	
4	Kumbhar Aishvarya Arjun	
5	Kumbhar shreevardhan Jayawant	
6	Kumbhar Ujwala Shankar	
7	Latake Sachin Vishwasrao	
8	Lohar Abhijeet Ashok	
9	Nikam Snehal Sukhdev	
10	Patil Arti Vyankat	
11	Patil Vikas	
12	Patil Priyanka Dattatraya	

Mobile No.	e-mail	Amount	Signature
~~7248925766~~	mrunalpr1999@gmail.com	200/-	
		200/-	
		200/-	
		200/-	
		200/-	
		200/-	
		200/-	
		200/-	
		200/-	
		200/-	
		200/-	
		200/-	

Sr.No.	Name of the participant	Name of the college
13 ✓	Sagare Pournima Jalindar	
14 ✓	Shinde Sunny Jaywant	
15 ✓	shingade Monali suresh	
16 ✓	Shivane Dnyandev Dinkar	
17 ✓	Yadav Ashwini Sanjay	
18 ✓	Patil Sandhyarani Sayaji	
19 ✓	Phase Akshay	Yashwantrao Chavan College of Science, Karad.
20 ✓	Dhagare Trupti Tukaram	
21	Dhavale Omkar Umesh	
22	Kashid Prasad Ravindra	
23	Patil Kranti	
24 ✓	Kanade Gauri Bharat	

Mobile No.	e-mail	Amount	Signature
		200/-	
		200/-	
		200/-	
		200/-	
		200/-	
		200/-	
		200/-	
		200/-	
8400795249 9		200/-	
7758 066 705		200/-	
		200/-	
9158139356		200/-	

Sr. No.	Name of the participant	Name of the college
25	Salunkhe Sayali ashok.	
26	Patil Supriya Sanjay	
27	Patil Varsharani Manaji	
28	Patil Pratik Ramchandra	
29	Sawant Sanket Sanjay	
30	Pawar Ankita Sambhaji	
31	Patil Anagha Vijay	
32	Palekar Rakesh Jadindar	
33	Kadale Aarti Mahadev.	
34	Mane Anuja shankar	
35	Jadhav Shivani	
36	More Vikas Narayan	

CF

CF

CF

CF

CF

C+F

cert. + file

C+F

C+F

CF

Mobile No.	e-mail	Amount	Signature.
9130647316		200/-	
7517993718		200/-	Patil.
9130539085		200/-	Patil.
8830466698		200/-	
9130245893		200/-	
8262075138		200/-	Pawar.
7038838406		200/-	
9145616743		200/-	
913955 8304			
9022467956			
8329082984			
9098659957			

Sr. No.	Name of the participant	Name of the college
37	Patil Sharvari Pramod.	
38	Bhivare Vedika Nandkumar	
39	Mohite Tejashri Bhimrao	
40	Jadhav Prajakta Jaysing	
41	Jare Nikhil Tukaram	
42	Bhosale Ashish Shashikant	
43	Dubal Neha Sanjay	
44	Patil Komal Jagannath	
45	Mane Prajakta Sambhaji	
46	Barge Prajakta Sambhaji	
47	Jadhav Dhanashri Jeevan	
48	Honrao Rutuja Rajendra	Yashwantrao Chavan College of Sc. Karad.

Yashwantrao Chavan College of Science ★ Karad ★ CHEMISTRY

Mobile No.	e-mail	Amount	Signature
9309903095			
7768887994			
9552823653			
9673145298			
8459640256			
7083024000			
7387187493			
9822115961			
9307001197			
9850284890			
8308128292			
7263920794			

49	Mulla Nikhatparvin Nurmahammad	
50	Patil Kranti Sambhaji	
51	Mulla Anis Barkatali	
52	Jadhav Shivaji Bhaskar	
53	Shedage Komal Namdev	
54	Priyanka Satish Pawar	
55	Priya Ravindra Pawar	
56	Mandake Sanket Sanjay	
57	Kadam Sanket Shivaji CTF	
58	Kolekar Mallikarjun Basappa	
59	Kumbhar Vinayak Hanmant	
60	Kumbhar Sushant ~~Hanmant~~ Arvind CTF	

9145305259			
8975044350			
9175742861			
9168459303			
8956064509		200/-	
7038664546		200/-	
9766535902		200/-	
9309910116		200/-	
8379002489		200/-	
9284242546		200/-	
7057215391		200/-	

61	Chavan Ajay Rajendra	
62	Dabade Ashi~~s~~tosh Rajendra	
M.Sc. I 63 ✓	Bhusale Nikita Appaso	
64 ✓	Jadhav Jyotsna suresh	
65 ✓	Kad~~d~~hone Nikhil Chandrant	
66 ✓	Karale Sayali Shivanand	
67 ✓	Karande Gaurav Prakash	
68 ✓	Karne Kamal Ankush	
69 ✓	Katkar Tejsveeni Suresh	
70 ✓	Khatavkar Saukhyada Pravin	
71 ✓	Kumbhar Datta Ramhari	
72 ✓	Mohite Nilima Suresh	

9309964729		200/-	
7758-800120		200/-	

73 ✓	Motar Akash Anant	
74 ✓	Mulani Amjad Babaso	
75 ✓	Natekar Tejashri Chandppa	
76 ✓	Nikam Ujjwal Sanjay	
77 ✓	Pardeshi Prajakta Haribhau	
78 ✓	Patil Mahesh Basavant	
79 ✓	Payal Prasad Ashok	
80 ✓	shinde Madhavi Sadashiv	
81 ✓	Tawar Snehal Bhagvan	
82 ✓	Vadar Nakusha Baban	
83 ✓	Veer Prajkta Dilip	
84 ✓	Bichukale Monali Ashok	

85 ✓	Chavan. Snehal Hanmant	
86 ✓	Gaikwad. Harshda Ramesh	
87 ✓	Jadhav Mohini Maruti	
88 ✓	Jadhav Shailaja Sarjerao	
89 ✓	Jadhav Smita Nivas	
90 ✓	Koday Rupali Popat	
91 ✓	Kokare Somnath Appaso	
92 ✓	Lad Sonal Satish	
93 ✓	Mane Shrikant Sanjay	
94 ✓	Mujawar Tamejun Adam	
95 ✓	Nawadkar Rushikesh santosh	
96 ✓	Patil Ankita Vishwas	

Sr.No	Name of the participant	Name of the college
.97	Patil Madhuri Ramchandra	
.98	Patil Pournima Ashok	
.99	Shaikh Heena salim	
.100	Shinde Prajwal Bajirao	
101	Tole Revati sanjay	
.102	Wakale Prathmesh Gorakhanath	
.103	Pawar Rohit Suresh.	Y.C. Karad
.104	Saswade Pranav Madan	
105	Salunkhe shubham Bhanudas	
.106	Chavan shubham. satish	
107	Bharsakle Sheela Sanjay	S. G. M. clg. Karad
108	Patil Swapnali Nivas	S. G. M. clg. Karad

Mobile No.	e-mail	Amount	Sign
		300	
9730877751			
8888353072	Chougulesheela23@gmail.com	200	Shougule
9561839362	Patilswapnali707@gmail.com	200 (rst-209)	Patil

Yashwantrao Chavan College of Science ★ Karad ★ CHEMISTRY

109	Pol Aparna keshav	S.G.M. College, karad
110	Patil kranti Ravsaheb	S.G.M. College, Karad
111	Vidula Dipak Patil ~~Vidula dipak Patil~~	S.G.M. college, Karad
112	shintre Vishal Vishnu	S.G.M. college karad.
113	Gurav sanket Machhindra	S.G.M. college, karad
114	Gharge Abhijeet vilas	S.G.M. college karad.
115	Mulla Suhel Allauddin	S —〃—
116	Chavan Rahul Pandurang	—〃—
117	Anuse Vijay Ashok	S —〃—
118	Batgiri ~~Batgiri~~ Abhishek Devidas	S —〃—
119	Mhetre Amar uttam	S —〃—
120	Zambre Sachin Dinkar (Poster)	—〃—

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121	Godase Rahul Ramesh	S.G.M. college karad.
122	Patil Pratik shivaji	S.G.M. college karad
123	satape Mahesh Prakash	Y.C. college Warana
124	Pawar Sushil Nivas.	Y.M. college Pune.
125	Palekar Swapnil Prakash (Posters)	Jaysingpur College, Jaysingpur
126	Balip vishal shivaji (posters)	Jaysingpur college, Jaysingpur
127	Awati Sonali Prakash (Poster)	Jaysingpur college Jaysingpur
128	Ekunde Pooja Suresh	S.G.M. college karad
129	Kamble Rohini Deepak (poster)	Balasaheb desai college patan
130	Bhushagi Swapnali Musa -lidhar	S.G.M. college, karad
131	Nandgaonkar pragati Sugatkant	S.G.M. college karad
132	Yadav snehal sanjay.	S.G.M. college karad

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7410121195		200	Yadav

Yashwantrao Chavan College of Science
CHEMISTRY
★ Karad ★

133	Pustake Priyanka Nipun	Y. C. College, Karad.
134	Kamble Preeti Mahadev Poster	B.D.C College, Patan
135	Patil Priyanka Eknath Poster	B. D. C College, Patan
136	Patil Kajal Anil Poster	B.D.C College, Patan
137	Pabhade Meghana Dipak Poster	B, D. C - P College, Patan
138	Pawar Ashlesha Shivaji	S.G.M. college karad.
139	Kadam Sayali Subhash	S.G.M. College karad
140	Karale Shivanjali Sampatrao	S.G.M. College Karad
141	Mohite Harshada Raghunath	S.G.M. College karad
142	Pawar Rutambara Dinkar (poster)	B.D.C. Patan.
143	Lohar Archana Sambhaji (Poster)	B. D. C Patan
144	Dhas Snehal Dinkar Poster	B.D.C Patan

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145	Methe Pallavi Bhimarao Poster	B.D.C. Patan
146	Marumale Komal Ashok Poster	B.D.C. Patan
147	Yadav Radhika Shankar Poster	B.D.C Patan
148	Patil Ankita Maruti.	S.G.M. College, Karad.
149	Waghmode Komal Suresh	S.G.M. College Karad
150	Babar Snehal Suresh.	S.G.M. College, Karad
151	Nagmale Aparna Dada-Saheb	S.G.M. College Karad
152	Shaikh Shahin Amit	S.G.M. College, Karad
153	Mohite Shrutika Vitthal	M.B.S.K. College Kadegaon
154	Jadhav Monali Mohan	Dahiwadi college Dahiwadi
155	Ghanawat Vishakha Bala-Saheb.	Dahiwadi college Dahiwadi
156	Kalantre Rupali Bhimrao Poster	B.D.C. Patan

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159	Walake Shradha Tanaji (Poster)	Shahu college Kolhapur
160	Tajade Prajakta Rajendra	Shahu College Kolhapur
161	Nikam Shraddha Shivaji (Poster)	BJS college Wagholi
162	More Snehal Sugalkant (Postee)	Devchand college Arjunnagar (Nipani)
163	Jagtap Radhika Dilip	Devchand college, Arjunnagar (Nipani)
164	Patil Aarti. Ashok (Postee)	Devchand college Arjunnagar (Nipani)
165	Kadam Manisha Tanaji	Devchand college Arjunnagar (Nipani)
166	Jadhav Pooja Pandharinath (Postee)	Devchand college Arjunnagar
167	Patil Nikita Suresh	Devchand college Arjunnagar
168	Pawar Komal Sambhaji.	S. G. M. College. Karad

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170	Pisal Supriya Jalindar (Poster)	Y.C. College, Satara
171	Patil Pooja Bharamu (Poster)	Y.C. College, Satara
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179	Shinde Prajakta Rajesh	Y.C.I.S satara
180	Kumbhar mayuri Anil	Y.C.I.S. satara

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181	Kamane Ankita Rajaram	Y.C.I.S. Satara
182	Attar Dhiraj Rafik.	Shivaji University.
183	Inamdar, Chaitanya Nilesh (Poster PPt)	KMR, college Rethare.bk.
184	Wavare Jayashree Birbal	Y.M. College pune
185	Patil sayali Rajendra	Y.M. College Pune
186	Angre Ankita Rajendra	Y.M. College pune
187	Thoravat Saurabh Sambhaji	SNST, shivaji University, kop.
188	Shinde Preeti Sidraya.	SNST, SUK,
189	Patil Vinay Shriram	SNST, SUK
190	Magdum Sahil Sanjay	SNST, SUK
191	Bhosale Mrunal Kirao	SNST, SUK
192	Patil Komal Tanaji (Doctor)	SNST, SUK.

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Sr.	Name of the participant	Name of the college
~~192~~		
193	Suchitra B. Ravan	SNST, SUK.
194	Diksha B. More	SNST, SUK
195	Harshada S. Ravan	SNST, SUK
196	Patil Jyoti Bajirao	S.G.M college karad.
197	Nanaware sagar Nivrutti (poster)	Y.C.I.S. satara
198	Kadam Ketaki popat (poster)	Y.C.I.S. satara.
199	Bhosarkar Mayuri vinit (poster)	Y.C.I.S satara.
200	More Ashwini Suresh (poster)	Y.C.I.S. satara.
201	More Nikita chandrakant (Poster)	Y.C.I.S. Satara
202	Salunkhe shital krishnat (Poster)	Y.C.I.S. Satara
203	shinde Mayuri Sanjay (poster)	Y.C.I.S. satara.
204		

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Sr.No.	Name of the student	Name of the college / Institute
1	Jawale Renuka Dipak (M.Sc. I - Microbiology)	Yashwantrao chavan college of sci karad
2	Patil Snehal Maruti (M.Sc. I - Microbiology)	Yashwantrao chavan college of sci. karad.
3	Bhosale Sakshi Rajendra (M.Sc. I - Microbiology)	Yashwantrao Chavan College of Science karad
4	Kadam Shilpa Prakash (M.Sc. I - Microbiology)	Yashwantrao chavan college of science karad
5	Gaikwad vaishnavi santosh (M.Sc I - Microbiology)	Yashwantrao chavan college of scienc karad
6	Sagare Pallavi Arvind (Microbiology) MSc-I	Yashwantrao chavan College of Science karad
7	Gaikwad Pranali Babaso (M.Sc I - Microbiology)	Yashwantrao chavan college of science Karad
8	Pawar Nageshwari Vikas (M.Sc I - Microbiology)	Yashwantrao chavan college of science karad
9	Gawali Shubhangi Ramchandra (M.Sc I - Microbiology)	Yashwantrao chavan college of science. karad.
10	Sonavane Komal Dinkar (M.Sc I - Microbiology)	Yashwantrao chavan college of science karad.
11	Khot Ashwini Shivaji (M.Sc I Microbiology)	Yashwantrao Chavan College of Science, Karad
12	Jadhav Dhairya Dhanaji (M.Sc I Microbiology)	Yashwantrao chavan college of Science, Karad.

Yashwantrao Chavan College of Science ★ Karad ★ CHEMISTRY Stamp

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Sr.No.	Name of the participant	Name of the college/Institute
13	Mali Shailaja Subhash (MSc-I microbiology)	Yashwantrao chavan college of science Karad
14	Patil Vaishnavi Suresh (M.Sc I Microbiology)	Yashwantrao chavan college of science karad
15	Pawar Phulabai Prakash (M.Sc I Microbiology)	Yashwantrao chavan college of science karad
16	Salwankar Siddhi Dhananjay (M.Sc I Microbiology)	Yashwantrao chavan college of science karad.
17	Dukkurwadkar Mayuri Krushna (M.Sc I Microbiology)	Yashwantro Chavan College of science, Karad
18	Khedekar Sharayu Vivek (M.Sc I Microbiology)	Yashwantrao Chavan College of Science, karad.
19	Thorawade Ankita Amar	Yashwantrao chavan college of science karad
20	Desai Pratiksha Manikrao	Yashwantrao chavan college of science Karad
21	Jadhav Shrutika Amrut	Yashwantrao chavan college of science Karad
22	Salunkhe Rutuja Dhanaji	Yashwantrao chavan college of science Karad
23	Salunkhe Komal Sunil	Yashwantrao chavan college of science karad
24	Jagadale Priyanka Shamrao	Yashwantrao chavan college of science karad

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Yashwantrao Chavan College of Science ★ Karad ★ CHEMISTRY

Sr.No.	Name of the student	Name of the college/Institution
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26	Kadam Isha Ramesh	Yashwantrao chavan college of sciense karad
27.	Karale Akshata Ananda	Yashwantrao chavan college of science, karad
28	More komal Pratap	Yashwantrao chavan college of science, karad
29.	Gurav Pradnya Laxman	Yashwantrao chavan college of science, karad.
30.	Ghashi swaliya Yusufali	Yashwantrao chavan college of science, karad
31	Jagtap vaishnavi Prakash	Yashwantrao chavan college of science, karad.
32.	Mahamuni Arati vilas	Yashwantrao chavan college of science, karad.
33.	Rakate Hikita Ramesh.	Yashwantrao chavan college of science, karad.
34.	shevale sujata shivaji.	Yashwantrao chavan college of science, karad.
35.	shant sanika sadashiv.	Yashwantrao chavan college of science, karad.

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M.Sc II	chemistry	pradnyagurav22@gmail.com 8378008864	300	
M.Sc II	chemistry	Swadiyag123@gmail.com 9130664868	300	
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M.Sc II	Chemistry	9699730145 Shantsanil16@gmail.com	300	

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Sr.No.	Name of the student	Name of the college / Institution
36	Patil Mahek Sunil	Yashwantrao Chavan College of science karad
37.	Thorat Sayali Sunil	Yashwantrao Chavan College of science karad
38.	Patil Pooja Tanaji	Yashwantrao Chavan College of Science karad
39.	Chopdar Supriya Vijay	Yashwantrao Chavan College of Science karad
40.	Jadhav Priyanka Mahadev	Yashwantrao Chavan College of Science karad
41.	Patil Pratiksha Atmaram	Yashwantrao Chavan College of Science karad
42	Mohite Tejashri Tanaji	Yashwantro chavan collage of science karad
43	Shinde Shubham Shivaji	Yashwantro chavan collage of science karad
44	Patil Satyajit Dhanaji	Yashwantrao Chavan College of Science Karad
45	Khaudle Akash Sunil	Yashwantrao chavan collage of Science karad
46	kumbhar prasad pandurang	yashwantrao chavan college of Science karad
47	Taware Achal vinayak	Yashwantrao chavan college of Science karad

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M.Sc II	Chemistry	8080207488 chopdarsupriya0405@gmail.com	300	Schopdar
M.Sc II	Chemistry	8956320490 pj853341@gmail.com	300	sPadhar
M.Sc II	Chemistry	8956917943 pratikshapatil157251@gmail.com	300	Patil
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M.Sc-II	Chemistry	9503061521 55996584@gmail.com	300	
M.Sc-II	Chemistry	9730078183 satyajitpatil808@gmail.com	300	
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Yashwantrao Chavan College of Science Karad CHEMISTRY

Sr.No.	Name of the student	Name of the college / student
48	Patil Pragati Sanjay	Yashwantrao Chavan College of Science, Karad
49	Kavade Radhika Rahul	Yashwantrao Chavan college of science, karad
50	Kamble Mrunali Baburav	Yashwantrao chavan college of science Karad
51	Ekam Pranjal Prakash	Yashwantrao chavan college of science, karad
52	Gholap Monali Anil	Yashwantrao chavan college of science karad
53	Kamble Mayuri Ananda	Yashwantrao chavan college of science, karad
54	Kamble Mrunal Babaso	Yashwantrao Chavan college of science karad
55	Deshmukh Manasi Naresh	Yashwantrao chavan college of Science karad
56	Mali Swapnali Madhukar	Yashwantrao Chavan college of Science karad
57	Patil Saloni Mahesh	Yashwantrao Chavan college of Science, karad
58	Ingale Darshan Dadasaheb	Yashwantrao Chavan college of Science, Karad
59	Patil Shardul Abhijeet	Yashwantrao Chavan College of Science, Karad

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M.Sc II	Microbiology	9921516575 etampranjal@gmail.com.	300	
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61	Mulani Ayesha Musa	〃
62	Hake Shweta Narendra	〃
63	Kadam Prathmesh Prakash.	〃
64	Adsul Rushikesh Sanjay	〃
65	Koli Ganesh Rajendra	〃
66	Budhawale Prashant Nawnath	〃
67	A	
68		
69	Patil Amruta Ravindra	
70	~~Patil~~ ~~Amruta~~ R	
71	Bhosale Prajakta Nilakanth	

Class	Subject	Mob. No.	Amount	Sign
M.Sc II	Microbiology	9607439491 bharatijadhav048@gmail.com	300/-	Bharati
M.Sc-II	Microbiology	9697627786 mulaniayesha22@gmail.com	300/-	Amulani
M.Sc-II	Microbiology	9172906755 hakeshweta 11@gmail.com	300/-	Shweta
MSc.II	Microbiology	8605983661 Prathmeshkadam 9989763@gmail.com	300/-	
M.Sc.II	Microbiology	9527011923 Rushiadsul2000@gmail.com	300/-	Rushi
MSc.II	Microbiology	7028897228 Ganeshkoli2098@gmail.com	300/-	Ganesh
MSc.II	Microbiology	9595158269 prashantbudhawale74@gmail.com	300/-	Prashant
M.Sc.I	chemistry	9322164847 shrutijadhav8383@gmail.com	300/-	Shrutijadhav
MSc.I	chemistry	8669805925 arpitashinde982@gmail.com	300/-	Arpita Shinde
M.Sc I	Chemistry	7350194546 amrudapatil02001@gmail.com	300/-	Amruda
M.Sc I	Chemistry	9529490679 manisha171kharade@gmail.com	300/-	Manisha
M.Sc I	Chemistry	9637312844 prajaktab259@gmail.com	300/-	P.N Bhoge

Yashwantrao Chavan College of Science CHEMISTRY Karad

Sr.No.	Name of the student	Name of the college / Institution
72	Rameshwar Balaji Munde	Y.C. College Karad.
73	Prasad Bajarang Hasole	y.c College, Karad
74	Abhay Bajirao patil	Y.C college of science Karad
75	Prasad Vishwanath Belekar	Y.C. College of science, karad
76	samadhan Anil kharat	Y.C. college of science karad
77	Shete avdhut ajit	Y.C.C.S.K
78	Anuse Digvijay Dipak	Y.C.C.S.K.
79	Patil Priyanka Shrikant	Y.C College of science, karad
80	Ambale vaibhavi sagar	Y.C. College of science, karad.
81	Nagane Shivani Dilip	Y.C. College of science, karad
82	Rajegaonkar Sneha Sanjay	Y.C. College of science karad
83	Sangame Rutuja Mahaveer	Y.C College of science

class	subject	Mob. No. & email	Amount	Sign
M.Sc-II micro	Microbiology	9370637508, rameshwarv1833@gmail.com	300	
Msc-II	microbiology	7198761171 Basadhasole@gmail.com	300	
MSc-II	Microbiology	7796447008 abhaybajirao patil@gmail.com	300	
MSc-II	Microbiology	9421461493, belekarprasad1999@gmail.com	300/-	
M.Sc-II	Microbiology	8459091138 samadhankharat8158@gmail.com	300/-	
M.Sc. II	Chemistry	7875805905 avadhutshete10@gmail.com	300/-	
M.Sc II	Chemistry	7218606020 digvijayanuse@gmail.com	300/-	
M.Sc II	Microbiology	9579635858 pspatil@gmail.com	300/-	
MSc-II	Microbiology	7249584153 vaibhaviambale1234@gmail.com	300/-	
M.Sc II	Microbiology	9970232775 shivaninagane05@gmail.com	300/-	
M.Sc II	Microbiology	9623883729 sneharaje gaonkar123@gmail.com	300/-	
M.Sc II	Microbiology	9359740842 Sangamkrutuja@gmail.com	300/-	

Yashwantrao Chavan College of Science Karad CHEMISTRY

Sr.No.	Name of the student	Name of the college / Institution
84	Shanbag Vaishnavi Murlidhar	Y.C College of Science, Karad
85	Pujare Dhananjay Sadashiv	Y.C COSK
86	Takale Ajit Surendra	Y.C. College of Science, Karad
87	Gotal Jayesh Tanaji	Y.C.C.S.K
88	Ayare Shrutika Umesh	Y.C.C.S.K.
89	Kamble Arundhati Avinash.	YCCSK
90	Shinde Tejaswini Subhash	YCCSK
91	Varute Nilam Ananda	YCCSK
92	Naikwadi Fiza Aftab	Yccsk
93	Shinde Yukta Yuvraj	Yccsk
94	Wategaonkar Swapnali Nivrutti	yccsk
95	Kumbhar Viresh Vijay	Yccsk

Class	Subject	Mob. No. & email	Amount	Sign
M.Sc II	Microbiology	9860172343 vaishnavimshanbhag 26999@gmail.com	300/-	Patil
M.Sc. II	Chemistry	8308076828 dhananjaydujone0807 @gmail.com	300/-	Dojone
M.Sc II	Chemistry	8484891988 ajittakale006@gmail.com	300/-	Takale
M.Sc-II	Chemistry	9527600972 jayeshgotal1991 @gmail.com	300/-	[illegible]
M.Sc II	Microbiology	9405681847 shrutiayare2000 @gmail.com	300/-	Ayare
M.Sc-II	Microbiology	9075128664 arulily2000 @gmail.com	300/-	AAkamble
M.Sc-II	Microbiology	8459563951 shindetejaswini39 @gmail.com	300/-	Shinde
M.Sc-II	Microbiology	7058525600 nilamvarute11@ gmail.com	300/-	Varute
M.sc-II	Microbiology	7020343260 FizaNaikwadi007@ gmail.com	300/-	Fiza
M.Sc-II	Microbiology	7620480754 yuktashinde1356@ gmail.com	300/-	Shinde
M.Sc-II	Microbiology	9689538533 swapnali85333 @gmail.com	300/-	Amu
Msc-II	Microbiology	8530253188 kumbharviresh00 @gmail.com	300/-	Kumbhar

Sr. No.	Name of the student	Name of the college / Institute
96	Omkar Shashikant Chougale	YCCSK
97	Sangalge Tushar Umesh	YCCSK
98	Kanase Digvijay Atul	YCCSK
99	Mankar Anushka Jalindar	YCCSK
100	Mali Priyanka Dipak	YCCSK.
101	Kale Shruti Mahesh	YCCSK
102	Tupe Ankita Anandrao	YCCSK
103 4142	Patel Sahil Rafik	YCCSK
104 4130	Madane Prashant Rajaram	YCCSK
105	Jadhav Shraddha Rajaram	YCCSK
106	Jadhav Mithali Bhargav	YCCSK
107	Bhise Sangram Madhukar	YCCSK

Class	Subject	Mob. No. & email	Amount	Sign
M.Sc II	Microbiology	7028754050 chavgaleom98@gmail.com	300/-	
M.Sc-II	Microbiology	9370169608 sangalgetushar@gmail.com	300/-	
M.Sc II	chemistry	9529915510 digvijaykanase@rediffmail.com	300/-	
M.Sc-I	chemistry	7058231506 mankaranushka@gmail.com	300/-	
M.Sc I	chemistry	7058989132 priyankamali206@gmail.com	300/-	
M.Sc. I	chemistry	9970139340 shrutikale1801@gmail.com	300/-	
M.Sc-I	chemistry	8830484583 ankitatipe@gmail.com	300/-	
MSC-I	chemistry	9975078428 sahil.patel.8428@gmail	300/-	
MSC-I	chemistry	9359383818 prashantmadane2001@gmail.	300/-	
MscI	Microbiology	8329275037 shraddhajadhav9146241194@gmail	300/-	
MSCI	Microbiology	9307033979 mithalijadhav277@gmail	300/-	
MSc II	chemistry	7410114310 bhisesangram584@gmail.com	300/-	

Yashwantrao Chavan College of Science
MSCI CHEMISTRY

r.No.	Name of the student	Name of the college / Institution
108	Bhingardeve pratik Dhondiram	YCCS
109	Gungurde Kamlesh Gulab	YCCS
110	Mulla Dastagir Rafik	Y.C.C.S.K
111	Kanishka Vishwas Deokate.	Y.C.C.S.K
112	Patil Rajnandini Pangarao	Y.C.C.S.K
113	Magadum Pratiksha Mahipati	Y.C.C.S.K
114	Rushikesh Anil Nangare	Y.C.C.S.K.
115	Vishwajeet Sabish Patil	R.C.P.K.
116	Tupe Rutuja sawanta	Y.C.C.S.K.
117	Haware Pooja Shashikant	Y.C.C.S.K
118	Mali Pragati Bhimrao	Y.C.C.S.K.
119	Bhise Savita Baban	Y.C.C.S.K.

Class	Subject	Mob. No. & email	Amount	Sign
M.Sc-II	Analytical chemistry	7378721403 Pratikb881@gmail.com	300/-	
M.Sc-II	Analytical chemistry	8554852708 kamleshgangurde49@gmail.com	300/-	
M.Sc. II	Analytical Chemistry	9373018078 dastagirmull71@gmail.com	300/-	
11th.		9322965[illegible]808	300	
M.Sc.II	Microbiology	9423278027 Gajanandinipatil8027@gmail.com.	300/- online	
M.Sc.II	—"—	9545665138 Prathkshammagadm@gmail.com	300/- online	
M.Sc-II	Microbiology	7758955105 nangareroushikesh1607@gmail.com	300/-	
B.Pharm IV		9604526038 vpatil5313@gmail.com	300/-	
M-Sc-II	Microbiology	9284486505 mrujatupe77@gmail.com	300/-	
M.Sc II	Microbiology	7499967113 poojahaware2000@gmail.com	300/-	
M.Sc II	Microbiology	7057502498 pragatimore5@gmail.com	300/-	
MSc II	Micro biology	7066698095 Savitabhise0102@gmail.com	300/-	

Vasantrao Chavan College of Science Karad CHEMISTRY

Sr.No.	Name of the student	Name of the college / Institution
120	Mujawar Aiman Tanveer	Y.C.C.S.K.
121	Naddaf Jeenat Maksood	Y.C.C.S.K
122	Mali Harsh Ajit	Y.C.C.S.K
123	Shinde Saish Ishwar	Y.C.C.S.K
124	Nangare Amruta Ankush.	RCPK
125	Prakiksha Sunil Dhembare	RCPK
126	Satarmaker Tanjum Ibrahim	YCCSK
127	Chavan Gayatri Shivanand	YCCSK
128	Reshma Prahlad Patil.	Y.C.C.S.K.
129	Rokade Priyanka Vinayak.	Y C.C. SK
130	Sahil arun waghmare	Y.C.C.S.K
131	Ms. Maneri M I.	M. C square Education

Class	Subject	Mob. No. & email	Amount	Sign
MSC-II	Microbiology	9096463486 mujawarseimana1@gmail.com	300/-	Amujawar
MSC-II	Microbiology	9021842330 jeenat nadda f962 @gmail.com	300/-	Jeenat
B.SC II	Botany	7378587067 maliharsh5777@gmail.com	300/-	[illegible]
B.SC II	Botany	888087682 kirtomesa@gmail.com	300/-	[illegible]
M.pharm	QA	9309311583 amrutanangare1224@gmail.com	300/- online	[illegible]
M.pharm	QA	7397913226 pratikshadhembare@gmail.com	300/- online	PSD
M.sc II	Microbiology	8857825786 satarmabertanjum@gmail.com	300/-	Dater
M.sc II	Microbiology	7507528727 gayatrichavan5231@gmail.com	300/-	G.Chav
Research student	chemistry	7620043788 reshmapatil20591@gmail.com	500/-	Rpatil
M.Sc-I	Chemistry	7219516180 Priyankarokade511@gmail.com	300/-	RRokade
[illegible]		9156872097	300/-	Prashik
M.Sc NET student		7209001668	300	[illegible]

Yashwantrao Chavan College of Science, Karad — CHEMISTRY

No.	Name of the student	Name of the college / Institution
144		
145		
146		
147		
148		
149		
150		
3001		
151		
3002		
152		
3003		
153		
3004		
154		
3005		
155	Bahulekar Pramil Shankar	Y. C. C. S. Karad
3006		

College	Subject	Mob. No. & email	Amount	Sign
	chemistry	7385668417	300	[illegible]

(1) = (54)

Sr. No.	Name of the student	Name of the college / Institution
156 3007	Bhandare Vishwajeet Jaydish	Y.C college of science karad
157 3008		
158 3009	Bhosale Rohit Ravindra	Y. C. college of science karad.
159 3010		
160 3011	Chavan Abhijeet Rajesh	
161 3012		
162 3013		
163 3014	Chavan Darshana Rajaram	
164 3015	Chavan (Bukal) Ganesh Shankar	
165 3016	Chavan Sayali Manik	
166 3017	Chavan swapnil Nagesh	
167 3018		

Class	subject	Mob. No. & email	Amount	Sign
B.S.C III	chemistre	8390672987	300/-	V.T.Bhal
B.S.C III	chemistry	7588322115	300	
BSC III	chemistry	7098125125	300/-	Chavan
BSC III	chemistry	8605651071	300	D.R.Chave
BSC III	—11—	8262826868	300/-	G.S.Chavan
BSC III	chemistry	9730427354	300/-	Chavan
B.S.C III	Chemistry	8007520596	300/-	S.N.Chavan

Yashwantrao Chavan College of Science ★ Karad ★ CHEMISTRY

Sr.No.	Name of the student	Name of the college/ Institution
168		
3019		
169		
3020		
170		
3021	Desai Shivani Dilipkumar.	
171		
3022	Deshmukh Komal Vishwanath	Y.C.C.S.K
172		
3023	Deshmukh Madhuri Mahadev	
173		
3024		
174		
3025	Dheb Rupali Nathuram	
175		
3026	Ghadge Omkar Maruti	Y.C.C.S.K
~~3027~~	~~Gaikwad~~	
176		
3027	Gaikwad Tejas Anandrao	Y.C.C.S.K
177	Gaikwad Vikram Laxman	Y.C.C.S.K
3028		
178		
3029		
179	Ghatukade Bhagvan Raghunath	Y.C.C.S.K.
3030		

class	subject	Mob. No, & email	Amount	Sign.
BSC-III	Chemistry	Shivanidesai2566@gmail.com 9067342566.	300/-	
B SC III	chemistry	Komaldeshmukh24112002@gmail.com 9146391726	300/-	
BSC- III	Chemistry	md2902760@gmai.com 9049131899	300/-	M. M. Des
BSc III	chemistey	eupadheb46@gmail.com 7385671603	300/-	Rdeb.
BSCIII	chemistry	omkarghadge2222@gmai.com	300/-	Ghadge
BSc III	chemistry	tejasyaikwad@gmailcom2351	300/-	Tejas
BSC III	chemistry	gaikwadVikram314@gmail.com 7558526283	300/-	Vaikwad
B.SC III	chemistry	9665166865.	300/-	

Yashwantrao Chavan College of Science ★ Karad ★ CHEMISTRY

Sr.No	Name of the student	Name of the college / Institution
180 3031	Gurav Vishvambhar Sunil	Y.C.C.S, Karad
181 3032	Ingawale Sandesh Sharad	
182 3033		
183 3034	Jadhav Karan Sachin	YCCS Karad
184 3035		
185 3036		
186 3037	Jadhav Sachin Jayvant	Y.C.C.S Karad
187 3038		
188 3039		
189 3040	Jadhav Shreyash Rajesh	Y.C.C.S. Karad.
190 3041	Jadhav Shweta Shashikant	YCCS Karad
191 3042	Jadhav sumi dilip	

class	subject	Mob. No. & email	Amount	Sign
B.Sc. III	Chemistry	7796547068, gvishwambhar72@gmail.com	300/-	
BSC III	Chemistry	7798736743	300/-	
B. Sc. III	Chemistry	8550944384	300/-	
B Sc III	chemistry	7875650044	300/-	
B.Sc. III	chemistry	9356950576	+40 D. 300/-	
B. Sc. III	chemistry	7035626768	300/-	
BSC III	chemistry	suraji3107@gmail.com 9321079713	300	

Yashwantrao Chavan College of Science CHEMISTRY Karad

Sr.No.	Name of the Student	Name of the college / Institution
192 3043	Jadhav Viraj Krishnat	
193 3044	Jagadale Omkar Maruti	
194 3045	Jagadale Sagar bhimrao	Y.C.C.S Karad
195 3046	Jagadale Mahesh Gajanan	Y.C.C.S, Karad.
196 3047	Jagtap Athaeav Anandeao	Y.C.C.S. Karad
197 3048		
198 3049	Jagtap Suhas balaso	
199 3050	Jagtap Vaishnavi Sanjay	
200 3051		
201 3052	Kale Shreyash Mohan.	
202 3053		
203	Kanase karan Jagdish	

Class	Subject	Mob. No. & email	Amount	Sign
BSC III	chemistry	9765798495	300	
B.Sc. III	chemistry	7410106376	300	
BSC-III	chemistry	8600942757 & Sagar Jagadale 2757 @gmail.com	300	
BSC. III	chemistry	8956273774 & maheshjagadale7203 @gmail.com	300	
BSC. III	Chemistry	9158400281 & athaeav1009 @gmail.com	300	
BSC III	Chemistry	8308500578	300	
BSC III	Chemistry	Vaishanvijagtap2000@gmail.com 8261898457	300	
BSC III		8669702205	300	
B.SC III	chemistry	7273036262	300	

Sr. No.	Name of the student	Name of the college / Institution
204 3055	Komase Shubham Ashok.	Y.C.C.S.K
205 3056	Kutare Pramod Sadam	Y.C.C.S.K
206 3057	Khachare Shweta Subhash	Y.C.C.SK
207 3058		
208 3059		
209 3060	Kusade Abhishek Ashok	
210 3061		
211 3062		
212 3063	Lohar Vishal Bhagvat	Y.C.C.S.K
213 3064	Mahadik Abhijeet Sanjay	Yashwantrao chavan college of science
214 3065	Mahind Avadhut Shivaji	Y.C.C.S. Karad
215 3066	Malave Pranali Vaman	Y.C.C.S, Karad

Class	Subject	Mob. No. & email	Amount	Sign
B.S.C-III	chemistry	7558234423	300	
B.S.C.III	Chemistry	7774020785	300	
B.S.C III	chemistry	9322574761	300	
B.Sc III	chemistey	7385115894	300	
BSc- III	chemistry	9325612597	300	
B.S.C III	chemistry	8421589450	300.	
B.Sc.III	Chemistry	9359727252	300	
B.Sc. III	Chemistry	9011928574	300/-	P.V.Malen

Yashwantrao Chavan College of Science ★ Karad ★ CHEMISTRY

Sr.No.	Name of the student	Name of the college / Institution
216		
3067		
217		
3068	Mali kishorishankar	Y.C. collage Karad
218		
3069		
219	Mane Harshada Kalyan	Y.C. collage Karad
3070		
220		
3071		
221		
3072		
222		
3073	Mohite Mandar Yuvraj	
223		
3074	Mohite manthan satish	
224	Mohite Nitin Bhagwan	
3075		
225		
3076		
226	More Jyoti kishor	Y.C.
3077		
227	More Niwas Balaram	Y.C
3078		

Class	Subject	Mob. No. & email	Amount	Sign
		kishorim16112002@gmail.com		
BSc-FII	chemistry	9011046815	300/-	
BSC III	chemistry	9657009795	300/-	
B-Sc. III	Chemistry	8459402486	300/-	
B.S.C III	chemistry	8010872961	300/-	
BSc III	Chemistry	8482895888	300/-	
BSc III	chemistry	morejyoti989@gmail.com 9766657051	300/-	
B.Sc III	chemistry	9359644950	300/-	

Yashwantrao Chavan College of Science ★ Karad ★ CHEMISTRY

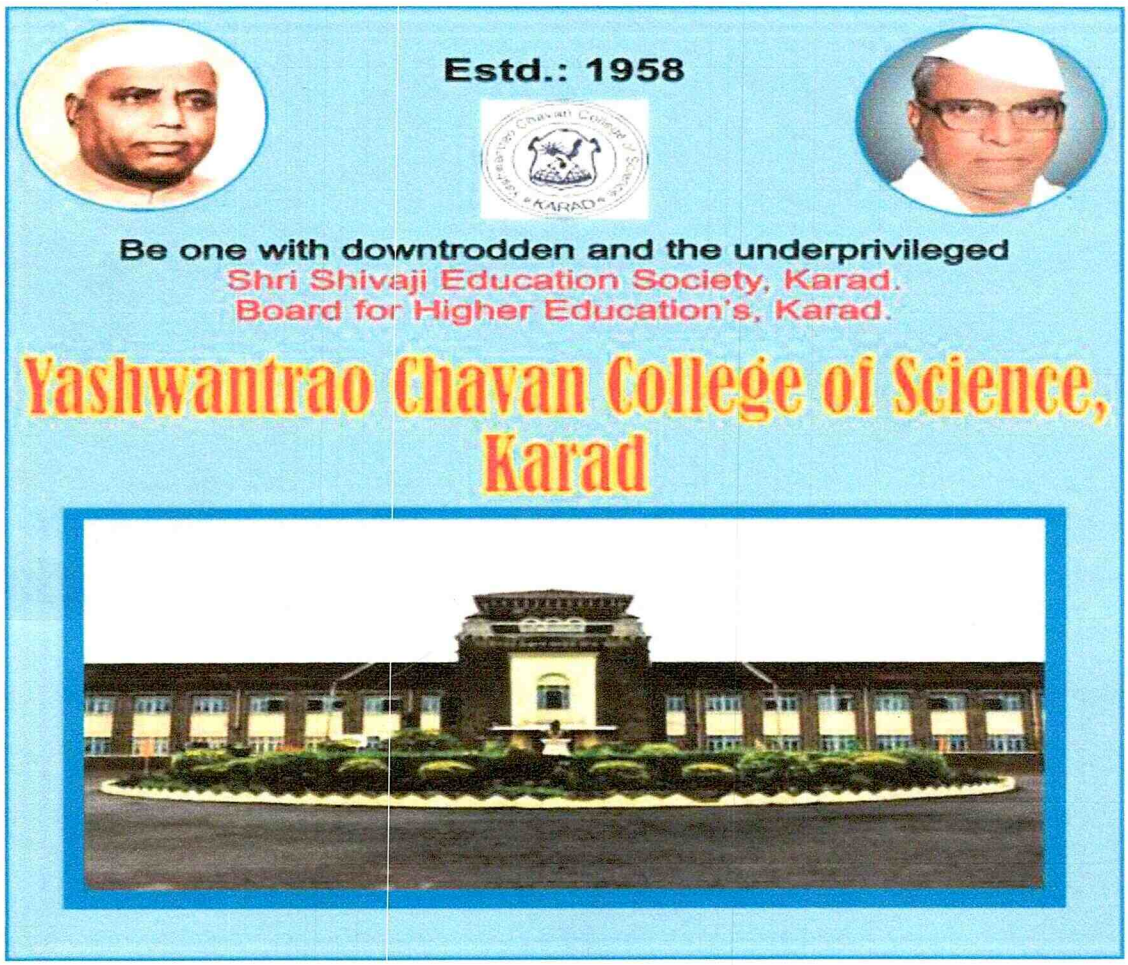
Sr. No.	Name of the student	Name of the college / Institution
228 3079		
229 3080	Mulla Sana Nurmahanmad	
230 3081		
231 3082		
232 3083	Nalawade snehal Ashok	
233 3084	Nigade Sandhya Raju	
234 3085	Nikam Sanjana Mohan	
235 3086	Palase pooja shankar	
236 3087	Omkar Baban Pangaskar	
237 3088	Patil Akshata Maruti	
238 3089		
239 3090	Patil Ashwini Him[illegible]	

Class	Subject	Mobile No, & email	Amount	Sign.
B.Sc III	Chemistry	Mulla Sana 187@gmail.com 8625030379	300/-	Smulla
B.Sc III	chemistry	snehalnalawade611002@gmail.com	300/-	Snalawad
B.Sc III	chemistry	Sandynnigade@gmail.com	300/-	Snigade
BSc III	chemistry	Sanjananikam1818@gmail.com	300/-	SNikam
B.Sc III 3rd	chemistry	Palase Pooja9141@gmail.com 8237929141	300	Palase
B.Sc III	Chemistry	7264082713	300	[illegible]
B.sc-III	chemistry	akshatamp2002@gmail.com	300	[illegible]
B.Sc III	chemistry	7472648362	300	[illegible]

Yashwantrao Chavan College of Science ★ Karad ★ CHEMISTRY

Souvenir

Two Days National Conference on
Green Chemistry and Advanced Materials (GCAM-2023)
14th and 15th March 2023



Organized by

Department of Chemistry & IQAC

Yashwantrao Chavan College of Science, Karad

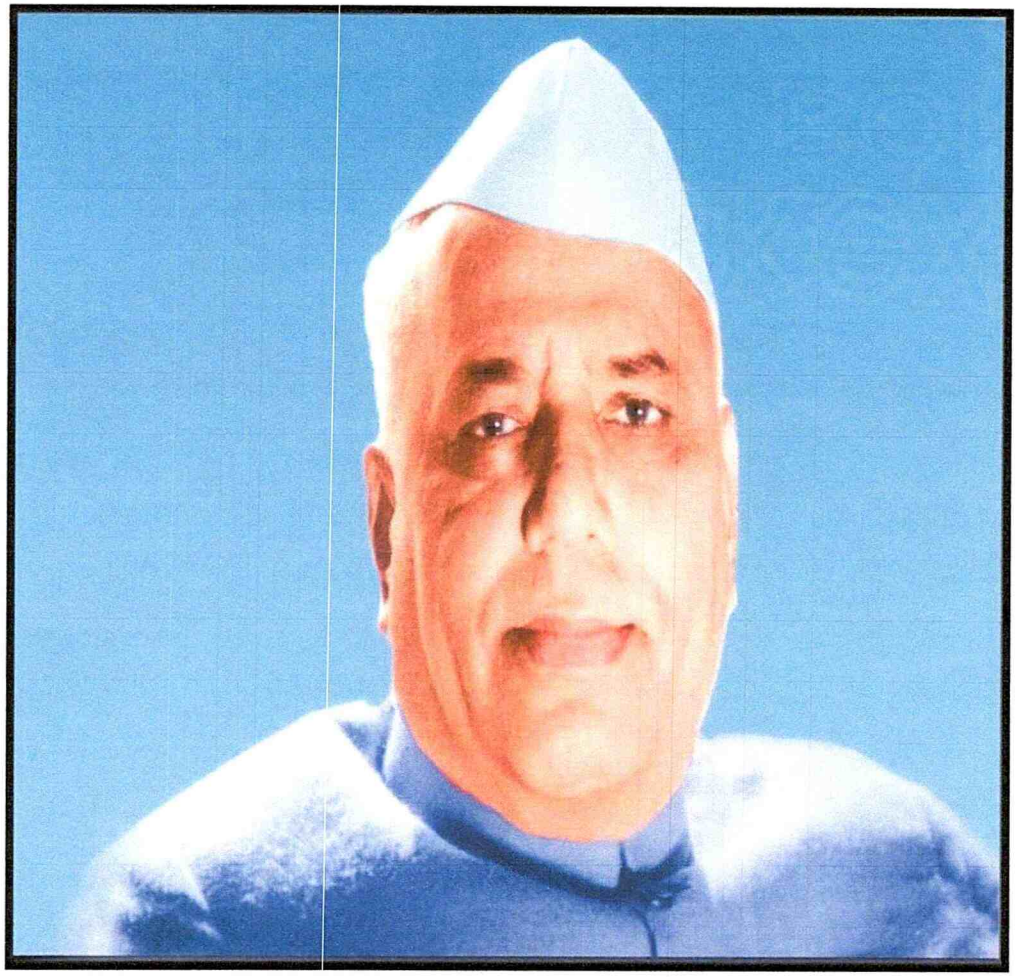
Principal

Dr. Suryakant Kengar

Yashwantrao Chavan College of Science, Karad

E-mail : prinyccsk@gmail.com Website : www.yccskarad.com

Our Inspiration



Hon. Shri. Yashwantrao Chavan Saheb

First Chief Minister of Maharashtra

Founder of Shri Shivaji Education Society's,

Board for Higher Education, Karad

Our Motivator

Hon. Shri. P. D. Patil Saheb

Former Chairman of Shri Shivaji Education Society's,

Board for Higher Education, Karad

Organizing Committee

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Hon. Balasaheb Pandurang Patil
Member of Legislative Assembly of Maharashtra (Karad North)
Former Minister of Co-operation & Marketing, Govt. of Maharashtra
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Organizing Secretary
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IQAC Co-ordinator
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Treasurer
Mr. A. N. Bhingare
Mr. G. B. Dhake
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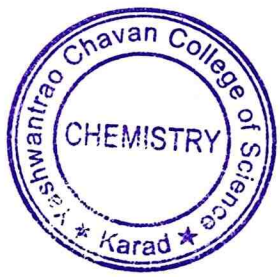
Mr. S. D. Karande
Dr. M. B. Jagadale



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Vice Chancellor, Shivaji University, Kolhapur.

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Head, Department of Chemistry, Shivaji University, Kolhapur

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Department of Chemistry, Shivaji University, Kolhapur

Prof. Dr. K. M. Gardakar
Department of Chemistry, Shivaji University, Kolhapur.

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Department of Chemistry, Shivaji University, Kolhapur.

Dr. Sanjay Patil
BARC, Mumbai

Dr. S. S. Patil
Principal, Raje Ramrao College, Jath.

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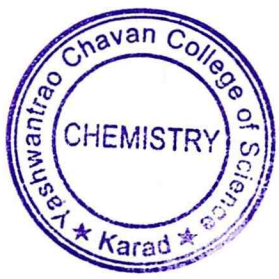
Head Department of Chemistry, Krishna Mahavidyalaya, Rethare BK.

Prof. (Dr.) R. K. Mane
Head Department of Chemistry, KRP College, Islampur

Prof. (Dr.) V. A. Kalantre
Head Department of Chemistry, Balasaheb Desai College, Patan

Dr. B. M. Sargar,
Head, Department of Chemistry, Jaysingpur College, Jaysingpur.

Mr. D. G. Kalekar
Head, Department of Chemistry, Raja Shripatrao Bhagwantrao Mahavidyalaya , Aundh.



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Mr. A. A. Lole
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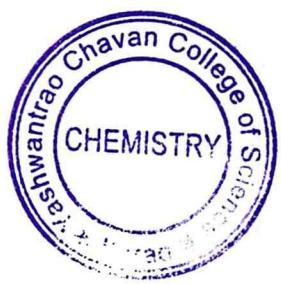
Dr. A. A. Raut
Dr. R. V. Desai
Miss. P. K. Madane

All Teaching & Non-Teaching Staff

Yashwantrao Chavan College of Science, Karad.



MESSAGE

I am happy to know that the Department of Chemistry Yashwantrao Chavan College of Science, Karad is organizing the national conference on "Green Chemistry and Advanced Materials" on 14th and 15th March 2023.

I am very proud to state that Department of Chemistry always selects an innovative theme for conferences. I hearty congratulate them for them for their efforts. The theme of conference is highly relevant and of national importance. The conference aims at adopting interdisciplinary approach and innovative ideas. The national conference will bring all the scientists and research scholars together to discuss on certain national important issues. I congratulate principal, staff and students of the college for organizing this national conference.

I wish every success for the conference.

Hon. Balasaheb Pandurang Patil Saheb

Member of Legislative Assembly of Maharashtra (Karad North),

Former Minister of Co-operation & Marketing, Govt. of Maharashtra,

President, Shri Shivaji Education Society's, Board for Higher Education, Karad.

MESSAGE

I am very glad to know that Yashwantrao Chavan College of Science, Karad organizing National conference on "Green Chemistry and Advanced Materials" on 13th and 14th March 2023. Department of Chemistry from this college is the largest and leading in the orbit of Shivaji University. You have really appreciated the present need of 21st century in the sense of innovative ideas in the field of Science. In these two days we expect exchange of ideas and amongst scholars and young inventors. I hope, with this interaction you will definitely capture young scientist from this conference.

I convey my best wishes on behalf of Shri Shivaji Education Society, Karad, Board for Higher Education's, Karad and on behalf of my college for grand success of the National conference.

Hon. Altafhusen Nasruddin Mulla
General Secratory,
Shri Shivaji Education Society, Karad.
Board for Higher Education's, Karad

MESSAGE

I am happy to know that **Yashwantrao Chavan College of Science, Karad** is organizing National conference on "**Green Chemistry and Advanced Materials**" during 13-14 March 2023. The conference is covering broad spectrum of topics right from Green Chemistry to Material science. I am sure that this conference will be successful in providing a common platform to all participants working in various fields. This will also give an opportunity to interact and enrich latest developments in the field of Chemistry.

I appreciate the efforts taken by faculty of Chemistry Department, Yashwantrao Chavan College of Science, Karad in organizing this conference. My best wishes for the National Conference "Green Chemistry and Advanced Materials".

Hon. Prakash Pandurang Patil

Former General Secratory,

Shri Shivaji Education Society, Karad.

Board for Higher Education's, Karad

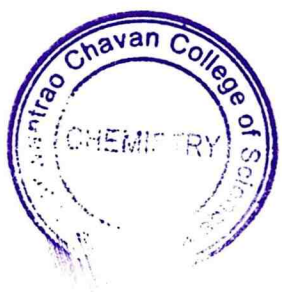
Yashwantrao Chavan College of Science ★ Karad ★ CHEMISTRY

MESSAGE

I am indeed very happy to offer welcome you all for this event of two days national Conference on "Green Chemistry and Advanced Materials" organized by Department of Chemistry during 13th and 14th March 2023." For us it is great privilege and honor to have opportunity for organizing National conference. The conference's theme is really multidisciplinary and it has the potential to have a significant societal influence.

We will take initiative in organizing such conference by realizing the significance of exchange of intellectual and scholarly thoughts and ideas that will interchange at such conferences.

In 21st century, there shouldn't be barriers between specialization and super-specialization such barriers between branches should be removed spontaneously for best flow of knowledge to develop innovative approach. I sincerely hope that you will enjoy the conference key hole, plenary speeches, invited talks, oral and



poster presentations. I must thank Advisory committee for their guidance and local organizing Committee for their sincere efforts to organize such a scientific event.

I take this opportunity to wish one and all a very interesting time during the conference.

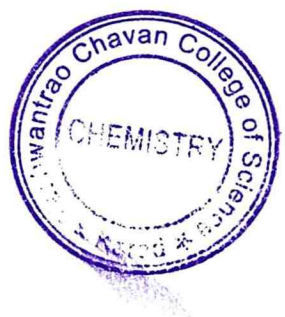
Dr. S. B. Kengar,
Principal,
Yashwantrao Chavan College of Science,
Karad.

MESSAGE

It gives me immense pleasure to welcome all the dignitaries, eminent resource persons and participants in the National Conference on **"Green Chemistry and Advanced Materials"** organized by Department of Chemistry during 14 & 15 December 2023.

The conference is aimed at bringing together eminent experts to give broad perspectives in the field of Chemical Sciences. It will impart an innovative knowledge about the advanced information of scientific research and recent development in technology to the participants. The topic for the deliberation for this conference transcends the borders of conventional and non-conventional chemistry and enters in the spheres of Green technology, nanomaterials, medicines, drugs, etc. We look forward to fruitful deliberations in interesting areas of scientific research.

At present our department is one of the premier & leading department in Shivaji University, Kolhapur at UG level. It was established in year 1958 as a part of science faculty of Yashwantrao Chavan College of Science, Karad under the



ableguidance of Late Hon"ble Yashwantrao Chavan. Our department presently run UG, PG and Ph. D courses. Now, 250 students doing their B. Sc course, 88 students for their M.Sc. course. While 04 students are doing their Ph. D course under the guidance of me.

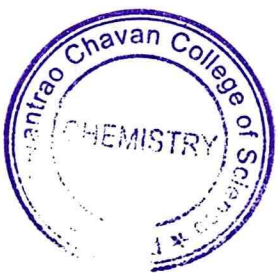
The department has well equipped and highly sophisticated laboratories, departmental books & CD"s library facilities for students & staff. There are 14 well qualified and experienced faculty members imparting quality education. Majority of them have been engaged in research work, project and publishing research papers in National & International journals. Besides teaching learning programme other activities like National, State level conferences, Seminars, Project work, ACT test, M.sc Entrance Coaching, Remedial teaching, Certificate courses, Guest lectures of eminent personalities are conducted continuously and successfully.

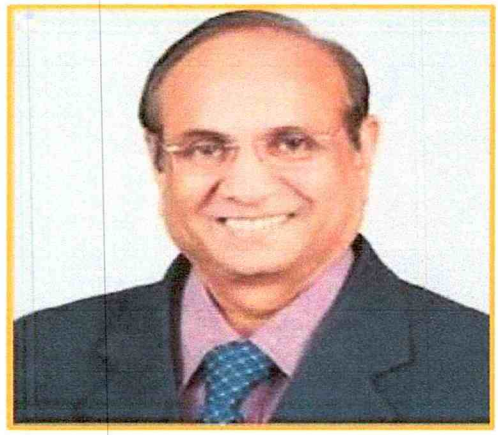
Our department offers placement services to graduate and post graduate students. Most of our alumini are holding responsible positions in various dignified areas. The most heartening feature of the conference is that it is being participated with a number of young scientist and Ph.D. students while presentations are schedules in oral and poster sessions. We are looking to the galaxy of the sparks and young participants who made this conference a memorable event. We expand our warm welcome to all deligates from Industries, Research organization and academic institutes. I wish them very happy stay in Karad.

Dr. S. H. Burungale

Convener,

Head, Department of Chemistry





MESSAGE

It gives me a great pleasure to know that the Department of Chemistry, Yashwantrao Chavan College of Science, Karad is organizing National Conference on "Green Chemistry and Advanced Materials" on 13th and 14th March 2023. Chemistry plays an important role in everyday life of an individual and chemical science has a major share in the overall economic development of the country. The present conference is a combination of chemical and allied sciences to confront the new challenges faced by the human population like pollution and energy crisis. I am sure that such activities will bring about fruitful discussions and interaction between the established national level scientists from various Institutes and the young researchers in the thurst areas of conference.

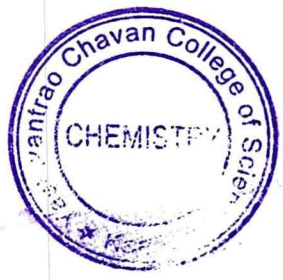
I convey my best wishes for the success of the conference.

Prof. (Dr.) Manikrao M. Salunkhe,

President, Association of Indian University (AIU), India

Ex. Vice Chancellor, Shivaji University, Kolhapur

Ex. Vice Chancellor, Bharati Vidyapeeth, Pune

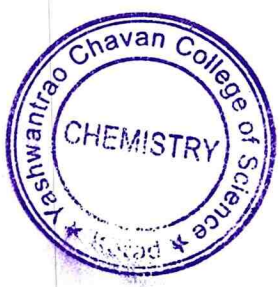


NATIONAL CONFERENCE
ON
GREEN CHEMISTRY AND ADVANCED MATERIALS

PROGRAMME SCHEDULE

Day -1 Date: 14 March 2023

8.00 am - 9.30 am	**Registration** **Tea & Breakfast**	
Plenary session I : Opening Ceremony		
9.30 – 11.00	Inauguration function	
	Inaugural address	Chief Guest 1 Prof. Dr. M. M. Salunkhe
11.00-12.00	Keynote address	Chief Guest 2 Dr. Dipak Vitthal Pinjari
12.00-1.00	Explanatory speech	Chief Guest 3 Sanjay K. Sharma
Lunch break (1.00-2.00)		
Plenary session II: Oral presentations		
2.00-3.00	Oral presentations (Four participants each 15 min)	Chairman 4
		Member 5
3.00-4.00	Oral presentations (Four participants each 15 min)	Chairman 6
		Member 7
Tea break (4.00-4.30)		
Plenary session III: Poster presentations		
4.30-6.30	Poster presentations	Chairman 8
		Member 9
		Member (Ladies)10
Dinner (7.30-onwards)		



NATIONAL CONFERENCE
ON
GREEN CHEMISTRY AND ADVANCED MATERIALS
PROGRAMME SCHEDULE

Day -2 Date: 15 March 2023

Tea & Breakfast (8.00 am - 9.30 am)		
Plenary session I : Honorary speech		
9.30 – 10.30	Informative speech-Industry	Chief Guest 11 Vimal Chandra Srivastava
10.30-11.30	Persuasive speech-Industry	Chief Guest 12 A. K. Satpati
11.30-12.30	Demonstrative speech-Research	Chief Guest 13 Dr. R. B. Pawar
Lunch break (1.00-2.00)		
Plenary session II: Oral presentations		
2.00-3.00	Oral presentations (Four participants each 15 min)	Chairman 14
		Member 15
3.00-4.00	Oral presentations (Four participants each 15 min)	Chairman 16
		Member 17
Tea break (4.00-4.30)		
Plenary session III: Valedictory function		
4.30-6.00	Function	
	Concluding speech	Chief Guest 18 Dr. R. B. Pawar
	Certificate issue	

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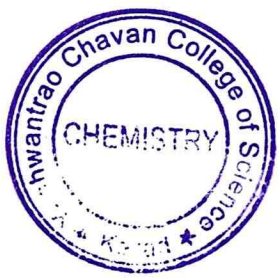
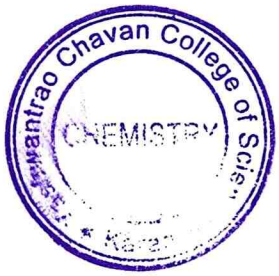




Esteemed Speakers

Prof. (Dr.) Manikrao M. Salunkhe,

President, Association of Indian University (AIU), India

Ex. Vice Chancellor, Shivaji University, Kolhapur

Ex. Vice Chancellor, Bharati Vidyapeeth, Pune

Prof. (Dr.) Sanjay K. Sharma,

Professor & Dean (R&D), JECRC University, Jaipur

Prof. (Dr.) Vimal Shrivastawa,

Professor & Head, Dept. of Chemical Engineering, IIT Roorkee

Prof. (Dr.) A. K. Satpati,

Scientist, Analytical Chemistry Division, BARC, Mumbai.

Prof. (Dr.) B. B. Kale,

Director, C-MET, Pune

Prof. Dr. P. S. Patil,

Pro Vice Chancellor, Shivaji University, Kolhapur.

Recent Developments in Green Chemistry and Advanced Materials

Dr. Dipak Vitthal Pinjari

Associate Professor and Associate Dean
Institute of Chemical Technology, Mumbai
Email: dv.pinjari@ictmumbai.edu.in

Abstract

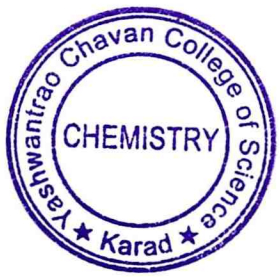
Advanced Materials are the definite answer to a digital world that is focused on becoming compact, sustainable and more efficient. They are providing superior strength and excellent performance compare to conventional material. It also helps us to clean up the world's bigger and more important problems, contributing significantly to the environment and climate protection by saving energy, raw materials, water and reducing greenhouse gasses and hazardous wastes. These engineered materials can increase the durability of the materials that they last longer and reduce waste. Nanotechnology relates closely to the advanced materials and having tremendous potential to positively affect the planet and human beings. It leads to faster, smaller, smarter and more portable systems and products. Nanomaterials, an outcome of nanotechnology, are small, fast and super bendy, hence they have a wide range of applications. Green Chemistry is another field which help to design the materials by adopting greener routes. They are having capability to eliminate use of hazardous chemicals and reduce waste while engineering advanced materials. Green chemistry and green engineering are the pillars of the green nanomaterials. By keeping a greener approach towards the synthesis of nanomaterial, green nanomaterials are introduced. Green nanomaterials find its applications in various sectors. Green Chemistry and advanced materials contribute efficiently to create greener future.

Indian Knowledge System: The Roots of environmental sustainability, civilization and Green Chemistry

Sanjay K. Sharma, FRSC
Green Chemistry & Sustainability Research Group, Department of Chemistry,
JECRC University, Jaipur 303 905, Rajasthan, India
E-mail: drsannjaysharma@gmail.com

Abstract

In ancient India, amazingly detailed information is available on the existence, exploration and innovation of - chemicals, metals, glass, dyes, cosmetics, perfumery, and herbal medicines through various methods and processes which were collectively called *Rasayan Shastra*, *Rastantra*, *Raskriya* or *Rasvidya*. The eminent Indian chemist of the last century and a historian of chemistry, Acharya Prafulla Chandra Ray stated five stages in the development of chemistry as (i) the pre-Vedic stage upto 1500 BC, including the *Harappan* period, (ii) the *Vedic* and the Ayurvedic period upto 700 CE, (iii) the transitional period from 700 CE to 1100 CE, (iv) the Tantric period from 700 CE to 1300 CE, and (v) the 'Iatro-Chemical period' from 1300 CE to 1600 CE. The concept of 'Green Chemistry' was introduced in the late 90s which is 'the design, development, and implementation of chemical products and processes to reduce or eliminate the use of substances hazardous to human health and the environment', which advocates for the sustainability of environment and earth. In Indian scriptures, we can easily find that the principles of sustainability were deeply rooted and practiced in the Vedic, Jain, Buddhist, and Kautilya's Arthshashtra era. The ancient Indian literature clearly suggests the existence of ecological sustainability which is replicated in



many modern holistic methods. Thus, the concept of green chemistry is not new in the Indian context.

References:

1 Kidwai, M. (2001) 'Green chemistry in India', Pure Appl. Chem., Vol. 73, No. 8, pp. 1261–1263.

2 Anastas, P. T., Williamson, TC. (1996) 'Green Chemistry: Designing Chemistry for the Environment', In: ACS Symposium Series, Washington, v. 626.

3 Ray, P.C. (1909) 'A. History of Hindu Chemistry', Vols. I & II. London: Williams and Norgate.

4 Verma, S. (2018) 'Chemistry in Ancient India', https://www.pgurus.com/chemistry-in-ancient-india/

Sustainability perspectives in future energy and environmental research

Vimal Chandra Srivastava

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G B Pant Institute Chair Professor, Department of Chemical Engineering
Joint Faculty, Centre of Nanotechnology
Indian Institute of Technology Roorkee
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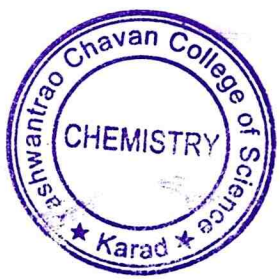
Abstract

India is the fourth largest energy consumer, behind only the US, China and Russia. In spite of this, its' per capita electricity consumption is very poor, 1,000 kilo watt hour (kWh) (in 2014-15), while developed countries average around 15,000 kWh. The Government of India is focused on a promising clean energy, therefore, economic activities based on renewable sources of energy such as hydrogen, hydro, solar, wind energy, alternative chemicals, and other related activities should be emphasized.

The industrial and municipal solid waste management is becoming an area of growing concern for the governments. Industries including pulp and paper mills, distilleries, textile, refineries, sugar, pharmaceuticals, etc. are highly polluting industries with generation of large amount of wastewater. The research on 'waste to energy' serves dual purpose; it cleans organic matters through its thermal, microbial and catalytic oxidation; and in that process it also augments the "SWACHH BHARAT" mission of the government. Various waste-to-energy technologies like gasification/thermal treatment of industrial and municipal solid waste; aerobic, anaerobic and advanced oxidation including supercritical, catalytic

thermolysis, catalytic oxidation, wet-air oxidation, coagulation, electro-coagulation based technologies for treatment of industrial and domestic wastewater; microbial fuel cell, etc. will be highly helpful in solving waste disposal problems and energy requirements.

For last few years, bioenergy production through biomass and algal route has attracted worldwide attention because of its portability of uses of diverse feedstock as the growth media. Solar energy has the potential for decreasing the dependability on fossil fuels, in particular, in the remote area. The areas of research are mainly focused on energy conversion using flexible solar cells (organic & perovskite solar cells), oxide based solar cells; integration of solar cells and solar potential prediction and estimation. To improve the usage of installed capacity, storage of energy is essential because renewable energy received from above sources is not perpetual and therefore coupling with energy storage devices is only a solution. Therefore, it is very much essential to develop energy storage devices. In addition, hydrogen energy, clean coal technology, carbon capture and storage, carbon dioxide sequestration and conversion to value-added products, life cycle assessment of sustainable energy technologies, application of artificial intelligence in the sustainable energy cycle, etc. are major areas of research.



Nano Composite electrodes and their characterisations in energy harvesting, storage and sensing applications

A. K. Satpati

Analytical Chemistry Division, Bhabha Atomic Research Centre, Trombay, Mumbai 400085, India
Homi Bhabha National Institute, Anushaktinagar, Mumbai 400094, India
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Abstract

The electrode/electrolyte interfaces of the nano composite electrodes are complex and the investigations of such complex processes are important in developing catalysts substrates for energy harvesting and storage, development of sensors and gas storing devices and investigating the interactions of drugs and biomolecules. The interfacial processes have been investigated for noble metal doped 3D-grapehe, metal organic framework derived Ni-Co oxide, MoS_2 MoS_2/C-dots composite for their electrocatalytic and supercapacitor properties. Photoelectrochemical (PEC) investigations are carried out for splitting of water using solar radiation on $BiVO_4$ and its modifications through doping and hetero junction formation. Modification of the interface has generated interesting properties. Electrochemical and photochemical techniques are utilised to probe the charge transfer processes of the modified interfaces. Scanning electrochemical microscope has been utilised to obtain the hole transfer kinetics for the PEC water splitting and to image the interfacial processes, some such investigations are shown in Figure 1.[1-4] The modified substrates like, Mn oxide, Mn ferrite, rGO, 3D-graphene, AuNPs modified substrates are developed for supercapacitor and also for

the electrochemical investigation and interaction of ciprofloxacin, dopamine, uric acid, nitrite, nitrate, 6-mercaptopurin, cysteine etc.

References:

[1] A. Sharma, S. Manna and A. K. Satpati; *J. Phys. Chem. C* , 2023 https://doi.org/10.1021/acs.jpcc.2c08039

[2] S. Kumar, S. Bawari, S. Narayanaru, T. N. Narayanan, A. K. Satpati, *J. Phys. Chem. C 2022, 126 , 239–245*

[3] S. Kumar and A K Satpati, *Electrochimica Acta, 2021, 368, 137565*

[4] S. Kumar, P. K. Sahoo and A. K. Satpati, *Electrochimica Acta 333 (2020) 135467*

Oral presentations

OP-1: Facile green synthesis of Pd NPs-rGO for electrooxidation alcohols

Nagesh D. Pawar, Jagdish C. Bhangoji, and Suresh S. Shendage*[a]

[a]Dept. Of Chemistry, KET'S V. G. Vaze Kelkar College, Mithagar Road, Mulund (E), Mumbai-400081, Maharashtra (India).

[b]Dept. Of Botany, KET'S V. G. Vaze Kelkar College, Mithagar Road, Mulund (E), Mumbai-400081, Maharashtra (India).

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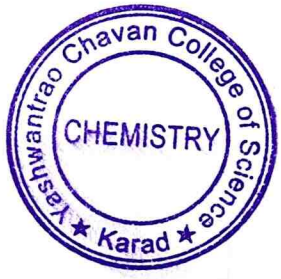
Abstract: Facile green synthesis of PdNPs on graphene support using L-ascorbic acid as reducing agent is reported for electrooxidation of alcohols. The synthesized nanocomposite material was characterized by XRD, SEM, and TEM. The morphological examination showed cubical PdNPs well dispersed on graphene support with mean diameter 25 nm with particle size ranges from 14-87 nm for Pd@rGO. The electrocatalytic activity was investigated by cyclic voltammetry and chronoamperometry techniques. The Pd@rGO exhibits excellent catalytic activity as well as long term stability for ethanol and methanol electro-oxidation in alkaline medium as compared to commercial Pd@C catalyst at room temperature. The prepared catalyst showed high activity and stability towards ethanol and methanol electrooxidation in alkaline medium.

OP-02: Design, molecular docking studies, *in-silico* ADME prediction and synthesis of some novel *N*-substituted 1,3,4-oxadiazole carbamothioyl derivatives with it's antimalarial, anticancer screening and QSAR study

Akshay R. Yadav*, Dr. Atul R. Chopade, Dr. Shrinivas K. Mohite, Dr. Chandrakant S. Magdum
Rajarambapu College of Pharmacy, Kasegaon, Sangli, Maharashtra- 415110
Email: akshayyadav24197@gmail.com

Abstract: Molecular docking results highlight that fact that the compounds (3h, 3j and 3n) exhibited good docking scores and could be considered as possible hit as therapeutic agents. In addition, *in-silico* ADMET analysis was done to predict the ADMET properties. It was intresting to note that SwissADME results coherence with final result of the compounds which have pharmacological activity means compounds confirmed to be drug-like molecules. Series of Novel N-Substituted 1,3,4-Oxadiazole carbamothioyl derivatives (3a-t) were synthesized by green chemistry approach. Synthesized compounds **(3h, 3j and 3n)** were characterized using IR, NMR and Mass spectroscopy. As Brine shrimp lethality assay that may prove quite helpful as a preliminary screen to determine toxic properties. Compounds produced **dose dependent cytotoxicity effect** to brine shrimp nauplii. These compounds show promising anticancer and antimalarial agents. A significant correlation was observed between the *in-silico* studies and the pharmacological activity. The anticancer activity results was correlated with their physiochemical and structural properties by QSAR analysis using **PLS advanced method**. The selected model of 3D QSAR showed correlation of descriptors with



anticancer activity. The resulting model exhibited **good q^2 and r^2** values respectively.

Keywords: 1,3,4-Oxadiazole, Molecular docking, *In-silico* ADME, Brine shrimp lethality assay, Anticancer activity, Antimalarial activity, 3D QSAR

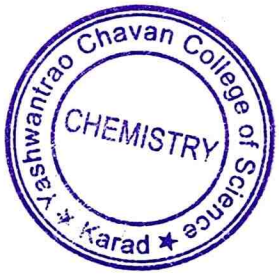
OP-03: Amino functionalized mesoporous silica as nanoadsorbents for removal of toxic Cr (VI) ions from water

Harshada B Garud[1], Sushilkumar A. Jadhav[2,*], Shivaji H. Burungale[3,*], Vilas A. Kalantre[1]

[1]Balasaheb Desai College, Patan, Maharashtra, India
[2]School of Nanoscience and Technology, Maharashtra, India
[3]Yashwantrao Chavan College of Science, Karad, Maharashtra, India
*Corresponding Author: sushil.unige@gmail.com,
shivajiburungale777@gmail.com

Abstract: In this research, synthesis of amino-functionalized mesoporous silica nanoparticles (MSNs) were carried out. The porous amino functional ($pSiO_2$-NH_2) nanoparticles were completely characterized by transmission electron microscopy (TEM), X-ray diffraction (XRD) Attenuated total reflection Fourier transform infrared spectroscopy (ATR-FTIR), and nitrogen adsorption-desorption (BET) analyses. The size of the particles was in the range of 80-200 nm with a specific surface area (SSA) of 721 m^2 g^{-1}, and the pore diameter was 3.1 nm. The $pSiO_2$-NH_2 nanoparticles were tested for their efficiency in removing Cr (VI) ions from water. Practically quantitative removal of the particles was accomplished by using the particles just within two hours. The adsorption efficiency of the particles was around 50 mg g^{-1}. The porous silica particles can be repeatedly used as nano adsorbents for the adsorption removal of Cr (VI) ions from water. The nanoparticles can also be potentially used for selective capture, removal, and recovery of other different toxic metal ions from water.

Keywords: Mesoporous silica; functionalization; adsorption; pollutant removal.



OP-04: Isolation and Characterization of Lead (Pb) Resistant Bacterial potential for bioremediation of contaminated soil

Abhay B. Patil and Jaysing U. Patil*
Department of Microbiology, Yashwantrao Chavan College of Science, Karad
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Abstract: Nowdays environment is being continuously polluted with toxic heavy metals that are spreading throughout the world along with industrial progress. Microorganisms can be highly efficient bioaccumulators of soluble and particulate forms of metals. Use of microbes for the bioremediation of heavy metals may provide an alternative or addition to conventional method of metal removal. The present study deals with isolation and characterization of lead resistant bacteria from heavy metal contaminated soil in the area of taswade MIDC followed by study of tolerance and bioremediation. Three different strains were isolated from soil sample. Minimum inhibitory concentration was shown against the lead nitrate at different levels. The higher MIC was observed at a concentration of 150 µg/ml of lead nitrate. Quantification of lead (Pb) metal absorption was determined by Atomic Absorption Spectrophotometric analysis. The present study reveals that selected lead resistant bacterial isolate A2 shows high lead resistance and might be possible to use in bioremediation.

Keywords: Heavy metals, lead resistant bacteria, bioremediation, soil contamination

OP-05: Agar Supported NiO NPs: A Sustainable Approach for synthesis of 3, 4-dihydropyrimidin-2(1H)-ones in Aqueous Media

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Abstract:

A novel approach for the ultrasound-assisted synthesis of 3,4-dihydropyrimidin-2(1H)-ones was developed by using biodegradable supported nanoparticles in a hydrotropic medium. Agar-supported NiO nanoparticles were synthesized by in-situ co-precipitation method and characterized by FT-IR, TGA-DTA, XRD, EDX, and SEM. Application of Agar-supported NiO nanoparticles was explored via synthesis of 3, 4-dihydropyrimidin-2(1H)-ones in an aqueous medium by using hydrotropes. Short reaction time, high efficiency, centrifugation-free method of separation of the catalyst and column chromatography-free isolation of the product is the key factor of this protocol.

OP-06: Isolation and characterization of amino acid producing bacteria from cow dung of exotic Gir cows at Karad, maharashtra

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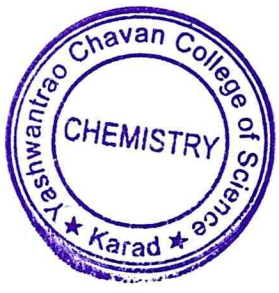
Abstract: Cow dung (CD) is the undigested residue of plant matter which has passed through the animal's gut. CD has been shown to be a cheap and available bio-resource that harbours a diverse group of microorganisms which may be beneficial to humans due to their ability to produce a range of metabolites. Isolation and characterization of five distinct amino acid producing bacteria from the cow dung suspensions under aerobic condition have been studied. Based on their morphological and biochemical characteristics, the isolates of two Gram positive P1 and P2 and three Gram negative P3,P4,P5 rod-shaped bacteria were identified. Then screening of bacterial isolates for amino acid production was finally assessed in molasses-based fermentation media, and the amino acids isolated and identified from the five types of bacteria using paper chromatography were methionine, alanine, phenylalanine, aspartic acid and valine respectively. Then quantitatively estimated these amino acids by ninhydrin method. In which methionine and alanine producing bacteria like *Bacillus subtilis* and *Cornybacterium kutsceri* gave better results than other three amino acid producers. The relevance of the findings in relation to the commercial production of amino acids of medicinal, agricultural and nutritional significance has been discussed.

Keywords: Cow dung, amino acids, fermentation, paper chromatography, ninhydrin method.



OP-07: Study of Antimicrobial activity of phenazien-1-carboxylic acid producing *Pseudomonas fluorescens spp.*

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Abstract:

Phenazine-1-carboxylic acid (PCA) produced by *Pseudomonas* is a strong and broad range antifungal metabolite. PCA, also known as tubermycin B, is one of the simplest molecules of phenazine group. Phenazine is a heterocyclic nitrogen-containing secondary metabolites produced by *Pseudomonas and* has great potential for use as antifungal and antibacterial. Pseudomonas fluorescens is a gram negative, rod shaped, motile bacteria.

The PCA producing bacteria were isolated from the soil of sugarcane field. Different strains of *P*seudomonas were isolated from that sample. All isolates are studied for morphological and biochemical properties. All isolates showed fluorescence when they subjected to UV light. All biochemical tests performed in the laboratory resembles to that of *Pseudomonas spp.* for glucose fermentation test all the isolate showed negative result, all the organisms have ability to convert H_2O_2 into H_2O and O_2 which indicate the positive catalase test ,all isolates gave positive result for the citrate test but all of them showed the negative result for the Indol test ,Methyl test and Voges proskaeur test . All isolates have ability to hydrolysis gelatin and Arginine. In this study we also report that Supernatant containing PCA compound inhibited the growth of the different pathogenic

bacteria such as *E.coli*, *Staphylococcus aureus* and Pathogenic fungus *xanthomonas oryzae* by well method.

Keywords: *Pseudomonas spp.*, PCA ,*E.coli*, *Staphylococcus aureus*, *Xanthomonas oryzae.*

OP-08: Primary screening of 2,4-Diacetylphloroglucinol production from *Pseudomonas fluorescent* Bacteria

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Abstract: Certain plant-associated strains of fluorescent *Pseudomonas spp.* are known to produce the antibiotic 2,4-diacetylphloroglucinol (2,4-DAPG).It has antibacterial, antifungal, antiviral and anthelminthic properties and playsa significant role in a bacterial control of tobacco, wheat and sugar beet diseases.

The 2, 4-DAPG producing bacteria were isolated from the soil of paddy field. Different strains of *P*seudomonas were isolated from that sample. All isolates are studied for morphological and biochemical properties.All isolates showed fluorescence when they subjected to UV light. All biochemical tests performed in the laboratory resembles to that of*Pseudomonas spp.* for glucose fermentation test all the isolate showed negative result, all the organisms have ability to convert H_2O_2 into H_2O and O_2 which indicate the positive catalase test ,all isolates gave positive result for the citrate test but all of them showed the negative result for the Indol test ,Methyl test and Voges proskaeur test . All isolates have ability to hydrolysis gelatinand Arginine.In this study we also reportthat 2,4-DAPGcompound inhibited the growth of the devastating rice bacterial blight pathogen xanthomonas oryzae in laboratory assys and suppress the rice bacterial blight up to 59%-64% in net-house and field experiment.

Keywords: *Pseudomonas spp.*, 2,4-DAPG, bacterial blight disease, *Xanthomonas oryzae*

OP-9: Isolation & Characterization of dye degrading bacteria from fresh water fish

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Abstract:

Indian rivers are the major source of fish as a food. There are popular names of fishes as a food of India are Bangda & Paplet. The various fishes contains some range of novel bacterial species. The range of bacterial genera varies with factors such as salinity & habitate of water. In this study investigation of flora present on skin of fish was carried out. The surface flora collected from fresh water fish has been spread inoculated on bile agar. All the isolates were screened for different industrially important products. Some of the isolates shown dye degrading properties. These isolates were purified and characterized on the basis of colony morphology and biolchemical tests.

Keywords: skin flora, dye degrading microorganisms, fish.

OP-10: Ni-Mn-Al mixed metal oxide catalyzed highly efficient inter- and intramolecular aza-michael addition with aromatic amines

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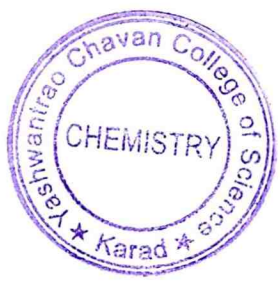
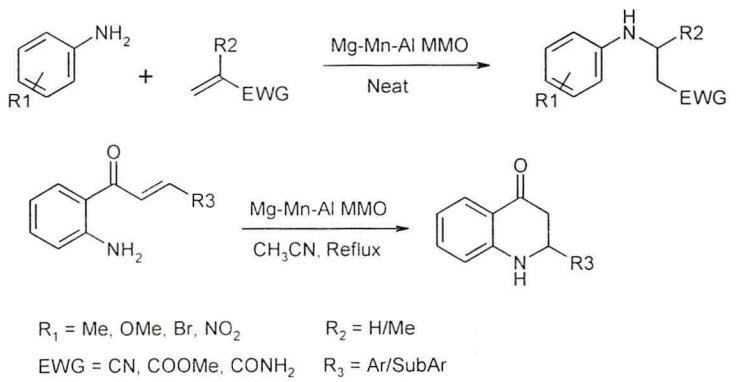
Abstract: Michael addition of heteroatom nucleophiles to conjugated alkenes constitutes an important strategy in carbon heteroatom bond forming reactions [1]. It opens an easy route for the pivotal synthetic intermediates like b-amino carbonyls, esters, nitriles and amides which find applications in the synthesis of natural products, chiral auxiliaries, bioactive compounds, pharmaceuticals, fine chemicals, etc. [2].

Classical Mannich reaction of enolates with imines is a useful alternative for the introduction of such functionality; however, its limited scope coupled with harsh reaction conditions makes its a less attractive route in the synthesis of complex molecules [3,4]. In contrast, the addition of nitrogenous nucleophiles to electron deficient alkenes (aza-Michael reaction) has attracted much attention from organic chemists principally due to its operational simplicity and high atom economy. Over the past few years, a good number of protocols have been reported for this important reaction [5]. These efficient protocols are well suited to primary aliphatic as well as secondary amines; however, aromatic amines being weakly nucleophilic, fail to undergo the Michael addition reaction. It is well known that, nucleophilicity of aromatic amines is highly solvent dependent [6] and they are twice more nucleophilic in aqueous medium [7]. Thus, Michael addition of anilines



was explored earlier in aqueous medium [8a–g]. These water-mediated protocols often require longer reaction time, thermal or MW activation and furnish the desired products in poor to moderate yields. To alleviate these problems, in recent years Michael addition of anilines has also been investigated using YNO3, SiO2.AlCl3, SiCl4, RuCl3 / PEG, I2, etc. as catalysts [9]. It is worth mentioning that, despite remarkable success of these protocols, their scope has been limitedly explored for intermolecular aza-Michael addition reaction. Consequently, the development of a versatile and an efficient protocol applicable to inter- as well as the intramolecular Michael addition of anilines, leading preferably to biologically active compounds is highly desirable.

In continuation with our ongoing studies on the development of new synthetic methodologies [10], herein we report our studies on aza-Michael reaction with special reference to aromatic amines as Michael donors (Scheme 1).

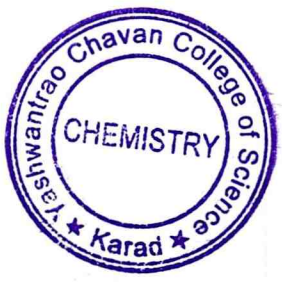


R_1 = Me, OMe, Br, NO_2 R_2 = H/Me

EWG = CN, COOMe, $CONH_2$ R_3 = Ar/SubAr

Scheme 1

In conclusion, we have demonstrated for the first time the use of Mixed Metal Oxides (MMO) as a highly efficient catalyst in promoting inter- as well as intramolecular aza-Michael addition of aromatic amines to a range of Michael acceptors. From a mechanistic viewpoint, the success of the aza- Michael reaction



relies either on the increase in nucleophilicity of anilines or the electrophilicity of conjugated alkenes, and the use of a synergistic catalyst is one of the keys in performing the aza-Michael reaction efficiently. It is well accepted that the metal ion from synergistic catalyst forms a strong coordinate bond with the electron withdrawing groups in conjugated alkenes and thereby increase their electrophilicity to facilitate the addition of nitrogenous nucleophiles [9].

Mg-Mn-Al MMO is a well-known synergistic MMO catalyst available commercially and unlike other metal salts it is non-explosive, non-oxidizing as well as a non-nucleophilic agent. It acts as both acidic as well as basic character i.e. synergistic nature and provides a convenient route to effect organic transformations under neutral conditions [11].

Keywords: Mixed metal oxides, Aza michael, Catalysts

References:

[1] (a) P. Perlmutter, Conjugate addition reaction in organic synthesis, Pergamon, New York, 1992 ; (b) M.E. Jung, in: B.M. Trost, I. Fleming (Eds.), Comprehensive organic synthesis, 4, Pergamon, New York, 1991 , p. 30; (c) S. Hong, T.J. Marker, Acc. Chem. Res. 37 (2004) 673.

[2] S. Fustero, B. Pina, E. Salavert, A. Navarro, R. De Arellano, M.C. Feunters, J. Org. Chem. 67 (2002) 4667.

[3] (a) S. Kobayashi, H. Ishitani, Chem. Rev. 99 (1999) 1069; (b) M. Arend, B. Westermann, N. Risch, Angew. Chem. Int. Ed. 37 (1998) 1045.

[4] (a) H. Ishitani, M. Ueno, S. Kobayashi, J. Am. Chem. Soc. 122 (2000) 8180; (b) T. Sakai, Y. Kawamato, K. Tomioka, J. Org. Chem. 71 (2006) 4706.

[5] (a) L.W. Xu, J.W. Li, S.L. Zhou, C.G. Xia, New J. Chem. 28 (2004) 183; (b) M.M. Hashemi, B. Eftekarisis, A. Abdolla-Hifar, B. Khalili, Tetrahedron Lett. 62 (2006) 672; (c) G. Bartoli, M. Bartolacci, A. Guiliani, E. Marcantoni, M. Massimo, E. Torregiani, J. Org. Chem. 70 (2005) 169; (d) N. Srivastava, B.K. Banik, J. Org. Chem. 68 (2003) 2109; (e) M.K. Chaudhuri, I. Hossain, M.L. Kantam, B. Neelima, Lett. Tetrahedron 46 (2005) 8329; (f) J. Nath, M.K. Chauduri, Catal. Lett. 133 (2009) 388; (g) J.M. Xu, Q. Wu, Q.Y. Zhang, F. Zhang, X.F. Lin, Eur. J. Org. Chem. 13 (2007) 1798; (h) R. Kumar, P. Chaudhary, S. Nimesh, R. Chandra, Green Chem. 8 (2006) 356.

[6] I. Lee, D.D. Sung, in: Z. Rappoport (Ed.), Chemistry of anilines, Wiley, Chichester, 2007, p. 537.

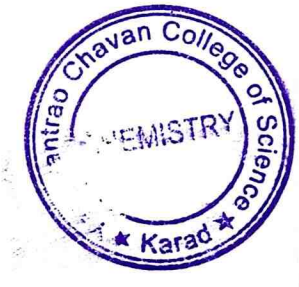
[7] F. Brotzel, Y.C. Chu, H. Mayr, J. Org. Chem. 72 (2007) 3679.

[8] M.L. Kantam, M. Roy, S. Roy, M.S. Subhas, B. Sreedhar, B. Choudury, M. Rajib Lal De, J. Mol. Cat A: Chemical 265 (2007) 244.

[9] J. Legros, K. De, B. Crousse, D.B. Delphon, J. Org. Chem. 74 (2009) 6260.

[10] U.V. Desai, D.M. Pore, S.B. Solabannavar, R.B. Mane, P.P. Wadgaonkar, Synth. Commun. 34 (2004) 25;

[11] B.B. Sobhana, K.K. Balsubramamian, Acros Org Acta 7 (2000) 1, and references cited therein.



OP-11: Synthesis of *N*-sulfonyl amidines using Copper exchanged Scolecite

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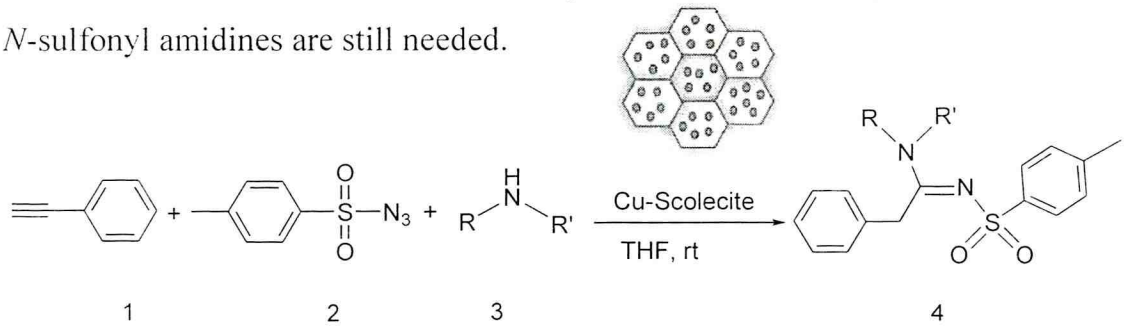
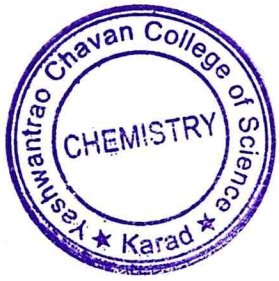
Abstract: *N*-sulfonyl amidines are important structural motifs in numerous biologically active compounds and widely used as valuable intermediate for synthesis of various heterocyclic compounds and metal complexes. In view of their interesting properties, a large number of methods have been reported for the synthesis of *N*-sulfonyl amidines. The most common method for synthesis of *N*-sulfonyl amidines involves multi-component reaction of alkyne, amine and tosyl azide. A large number of catalytic systems have been developed for this purpose. However, many of them suffer from drawbacks such as harsh condition, large reaction time, etc. Therefore, novel simplified and efficient synthetic methods to *N*-sulfonyl amidines are still needed.

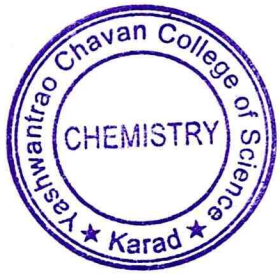


Scheme: 1

In the present work, we have synthesized novel catalyst by exchanging surface sites on Scolecite by copper. The resultant copper exchanged Scolecite was



characterized by FT-IR, FT-Raman and X-ray diffraction (XRD) analysis. The morphology was assessed by scanning electron microscopy. The copper exchanged Scolecite was efficiently employed for multi-component synthesis of *N*-sulfonyl amidines from phenyl acetylene, tosyl azide and amines. The short reaction times, good to excellent product yields and excellent reusability of catalyst are important features of reported protocol.



OP-12 Aegle marmelos fruit coat ash extract mediated synthesis of Curcumin loaded solid and porous silica nanoparticles and their anticancer activity

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Abstract:

The present study reports on green approach for synthesis of silica nanoparticles (SiNPs) from Aegle marmelos fruit coat ash by modifying Stober method. The prepared material was utilized for anticancer drug delivery by selecting Curcumin as a model drug. The present investigation had made to synthesis of solid, porous and amine functionalized silica nanoparticles. These SiNPs were characterized by using instrumental techniques such as FTIR, BET, FE-SEM, HR-TEM, DLS and TGA. Model drug Curcumin was successfully loaded to green synthesized SiNPs and sustain release of drug was examined in pH 5 and pH 7.2 buffer solutions. The prolong release pattern of loaded drug ensure that SiNPs have great potential in nano drug delivery. As well as their anticancer efficiency against MCF-7 breast cancer cells was assessed through MTT. Thus, the fabricated CUR@MSN-NH2 composite proves to be a safe and highly promising application for potential breast cancer delivery.

Keywords: Silica nanoparticles, Green synthesis, Aegle marmelos, Curcumin, Drug delivery

OP-13 Isolation and Identification of Probiotic bacteria From intestine of Fresh water Fish *Rastrelliger kanagurta (Indian mackerel)*

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Probiotics is a live microbial feed supplement which beneficially affects host animal by improving it's intestinal microbial balance. Probiotic bacteria are essential for beneficial effects on human health including gastrointestinal function, interaction with immune system . They must be resistant to gastric juice and able to grow in the presence of bile. We tried to isolate probiotic bacteria from fresh water fish *Rastrelliger kanagurta* (*Indian mackerel*). The bacteria were screened out for probiotic properties. These isolates were able to survive and grow from pH 3 to 6 with highest viability and growth rate. All isolates were tested for tolerance at 0.15 and 0.3 bile salt concentration. By studying the antibiotic sensitivity test , these isolates were exposed to different antibiotics. These strains were sensitive to Erythromycin, Tetracycline and Chloramphenicol and resistant to penicillin . All biochemical test performed in laboratory resembles to that of genus *Lactobacillus*, *Micrococcus* and *Bacillus*.

Keywords : Probiotics, Bile salt , Antibiotic sensitivity.

OP-14 Biosynthesis of sliver nanoparticles from Psidium guajava leaf a extract and its antibacterial activity

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The field of nanotechnology is one of the most active researches nowadays in material science and technology. Nanoparticles are fundamental building blocks of nanotechnology. The synthesis of silver nanoparticles are carried out by various method including chemical, physical, biological. Synthesis of sliver nanoparticles from sliver nitrate solution from aqueous extract of guava leaf act as a reducing and capping agent. The silver nanoparticles confirmed by its colour changes of fruit extract and further confirmed to the help of UV Visible spectroscopy. Here we have tried to analyse the effect of sliver nitrate on various bacteria. Microorganisms were cultivated on Nutrient agar and MacConkeys agar. The silver nitrate treated with cultivated organism to evaluated their antibacterial activity against *Staphylococcous aureus*, *Bacillus subtilis*, *Escherchia coli* and also used as a growth factor. According to the study, we found that the shoot and root length of plant goes on increased.

Keywords: Silver nanoparticles, Microbial activity.

OP-15: Preparation and evaluation of herbal nanoparticles using ethanolic extract of *Zephyranthes minuta* and their pharmacological screening

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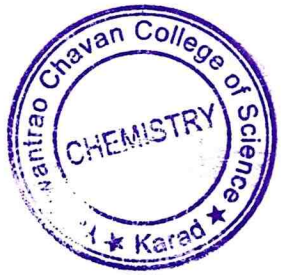
Abstract:

Herbal Nanoparticles is the novel drug delivery system play an important role to improve bioavailability of conventional drugs. Herbal Nanoparticles (Herbosomes) is a current concept in herbal drug technology that removes the limitations of the traditional drug delivery systems. It is considered that a polymers play a very important role in emulsification of Phospholipids

Conclusion - The current research work was aimed to Prepare and Evaluate of Herbal Nanoparticles using Ethanolic extract of *Zephyranthes minuta* by Solvent evaporation techniques and its pharmacological activity.



Poster presentations

PP-01: Synthesis, Characterization and Application of Copolymer resin

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Abstract: The copolymer were synthesize by the condensation polymerization involving monomers like anthranilic acid / guanidine / with formaldehyde in 1:1:2, ratios using 2 M HCl as reaction medium refluxing for 6 hour at 124 °C. The synthesized resins is characterized by elemental analysis, gel permeation chromatography, FTIR, ^{1}H NMR spectroscopy. The synthesized copolymer studied for electrical conductivity measurements.

Keywords: Copolymer, Electrical conductivity, FTIR, ^{1}H NMR, Elemental Analysis.

PP-02: Extraction method of gold (III) from weak acid media: analysis of synthetic mixtures and alloys

Dr. Vishal J. Suryavanshi[a,b*], *Dr. Ganpatrao N. Mulik*[b*]

[a]*Department of Chemistry, D. Y. Patil Technical Campus Faculty of Engineering and Faculty of Management, Talsande Kolhapur-416004, Maharashtra, India.*

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Abstract:

The present work explores the liquid-liquid extraction of Au (III) from aqueous sodium malonate medium using 2-octylaminopyridine (2-OAP) as an extractant dissolved in xylene. It is also investigated the influence of several experimental parameters such as pH, weak acid concentration, extractant concentration, equilibrium time, stripping agents, aqueous: organic volume ratio on the extraction of Au(III). The experimental results have shown that the Au(III) was quantitatively transferred from the aqueous phase to organic phase at about 99.5% by 0.05M 2-OAP in 0.05M malonate at 5.0 pH. The ammonia solution was used to strip the gold loaded organic phase and about 99.5% of Au (III) could be reversed extracted into the aqueous phase. Gold(III) was extracted into the organic phase due to the formation of ion-pair complex such as, $[2\text{-OAP}^{+}\ Au\ (C_3H_2O_4)_2^{-}]$. The stoichiometry of the extracted species was determined by the slope analysis method and it was found that 1: 2: 1 (metal: acid: extractant). The method affords the binary, ternary mixture separation as well as separation of Au(III) from synthetic mixtures and alloys. The method is applicable for the determination and separation of gold from ayurvedic samples, and recovery of gold from e-wastes.

Key words: Solvent extraction, 2-Octylamiopyridine, Gold(III)

PP-03: Zinc oxide catalysed ecofriendly synthesis of nitriles: an ultrasonic protocol

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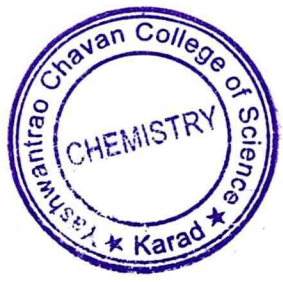
Abstract:

Background: Nitriles are widely used for transformation into amides, amines, esters, carboxylic acids etc.[1] Hence they have been used as intermediates for the synthesis of fine chemicals such as agricultural chemicals, dyes and medicines.[2] One of the most general methods for the synthesis of nitriles is the nucleophilic substitution reaction of alkyl halides with metal cyanides. The method is, however, inconvenient because of high toxicity of metal cyanides and troublesome handling. Consequently, other methods such as the dehydration of primary amides[3] or aldoximes[4–7] have attracted attention. It is known that dehydration of aldoximes into nitriles can be achieved by using a variety of reagents like triethylamine/sulfur dioxide,[4] zeolites,[5] sulfurylchloride fluoride,[6] sulfuryl chloride[7] etc. but many of these suffer from limitations such as high toxicity, vigorous reaction conditions, unsatisfactory yields, tedious work up and use of large excess of reagents. We have recently reported a rapid synthesis of oximes in high yields from aldehydes using magnesium oxide in aqueous media.[8] Some rapid procedures for one pot synthesis of nitriles have been described using formic acid[9] and potassium peroxy monosulfate[10] but whereas the first method suffers from undesirable action of formic acid that can affect acid-sensitive aldehydes, the second suffers from the undesirable oxidation of some functional groups. So, there exists a need for



developing rapid and facile methods for one pot synthesis of nitriles. As part of our interest in rapid synthetic transformations to yield oximes.[8] we report herein a rapid one pot synthesis of nitriles aldehydes and hydroxylamine hydrochloride using zinc oxide in aqeous media, which we thought would catalyze both the oxime formation and the consequent nitrile formation steps.

Result: A rapid and facile one pot synthesis of nitriles has been carried out in high yields from the corresponding aldehydes and hydroxylamine hydrochloride in the presence of environmentally benign zinc oxide catalysts in aqueous media under ultrasonic irradiation.

Conclusion: We have developed a convenient one-pot method for conversion of aldehydes to nitriles in aqueous solvent, under ultrasonic irradiation. Zinc oxide as a catalyst were used for this reactions.

Keywords: Nitriles, Aldehydes, Hydroxylamine hydrochloride, Zinc oxide, Aqueous media

References:

1. Cohen, M.A.; Sawden, J.; Turner, N.J. *Tetrahedron Lett.* 1990, *31*,7223.
2. Fabiani, M.E. *Drug News Perspect* 1999,*12*, 207.
3. Baxendale, I.R.; Ley, S.V.; Sneddon, F.H. *Synlett* 2002, *5*, 775 and references therein.
4. Olah, G.A.; Vankar, Y.D. *Synthesis* 1978, 702.
5. Rao, M. Narayana.; Kumar, P.; Garyali, K. *Org. Prep. Proceed. Int.* 1989,*21*,230.
6. Olah, G.A.; Narang, S.C.; Garcia-Luma A. *Synthesis* 1980, 659.

7. Krynitsky, J.A.; Carhart, H.M. Org *Synth. Coll.* Vol IV 1963, 436.

8. Uday. P. Lad, Makarand. A. Kulkarni, Rahul. S. Patil , *Rasayan J. Chem.* 2010, *Vol.3, No.3*, 425.

9. Feng, J.C.; Lin, B.; Dai, L.; Bian, N.S. *Syn. Commun.* 1998, *28*, 3765.

10. Bose, D.S.; Narsaiah, A.V. *Tetrahedron Lett.* 1998, *39*, 6533.

PP-04: Synthesis and Characterization of Antibacterial Activity of Spinel Manganese Substituted Cobalt Ferrite Nanoparticles for Biomedical Application

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Abstract: Nanocrystalline transition metal mixed oxides, attracted much attention due to their catalytic properties and surface area to volume ratio. Among these spinel ferrite nanoparticles have shown immense potential in nanomedicine. The objective of present research work was the synthesis of manganese-substituted spinel cobalt ferrite nanoparticles having composition $CoMn_xFe_{2-x}O_4$ $(0.0 \leq x \leq 2.0)$ by sol-gel method and characterization of their antibacterial activity against *E. coli*. The synthesized ferrite nanoparticles were characterized by X-ray diffraction, FT-IR, UV- Vis, SEM techniques. XRD analysis confirmed that the all the samples were cubic spinel in structure. It has been found that $CoMn_xFe_{2-x}O_4$ nanoparticles inhibit bacterial growth. SEM micrograph shows that $CoMn_xFe_{2-x}O_4$ nanoparticles get adhered to bacterial cell surfaces and damaged the cell membrane due to interaction between nanoparticles and cell membrane. $CoMn_xFe_{2-x}O_4$ nanoparticles severely damaged *E. coli* cells with significant loss of membrane integrity that may lead to cell death. Hence $CoMn_xFe_{2-x}O_4$ nanoparticles synthesized by using sol-gel method are suitable for biomedical applications.

Keywords: Nonomaterials, Mixed-Metal Oxides, XRD, SEM, Antimicrobial

PP-05: Sustainable synthesis of azalactones using magnetic nanoparticle supported ionic liquid phase catalyst

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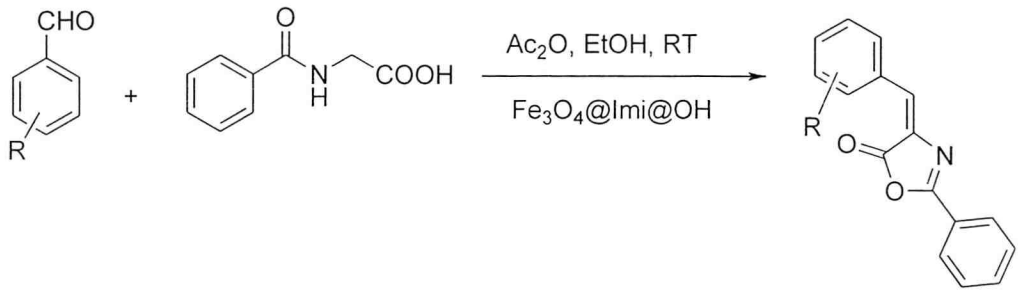
Abstract:

The Erlenmeyer-Plochl reaction is most widely employed in synthesis of azlactones. This reaction possesses overwhelming popularity owing to its enormous diverse applications. Azalactones are privileged scaffolds that possess anti-HIV, cardiotonic, anti-inflammatory, sedative, anti-cancer and anti-diabetic activities. Remarkably, azlactones are also employed as intermediates in the synthesis of organic compounds containing amino acids, polyfunctional molecules, thiamine and peptides. By virtue of their dynamic properties, a large number of synthetic approaches have been reported for synthesis of azlactones including ionic liquids as catalytic systems. A traditional approach for synthesis of azalactones involves a multicomponent reaction of aldehyde, hippuric acid and acetic anhydride (**Scheme 1**). However, many of reported protocols are suffering from several drawbacks such as harsh reaction conditions, longer duration of reaction course, unsatisfactory yields and difficulties in recovery and reusability of the catalyst. These disquiets have created a thirst for demand to develop a modified protocol for the Erlenmeyer-Plochl reaction using a highly robust heterogeneous catalyst.

In the present work, we have successfully synthesized magnetic nanoparticles supported ionic liquid phase catalyst containing hydroxyl anion and employed for multi-component reaction of aldehyde, hippuric acid and acetic anhydride for synthesis of azalactones. The successful preparation of catalyst was reaffirmed by several characterization techniques such as FT-IR spectroscopy, XRD, TGA, VSM, TEM and EDX analysis. The morphology of catalyst was probed by scanning electron microscopy. This protocol offers several beneficial striking features to circumvent drawbacks of previously reported methods.



Scheme 1

PP-06: Synthesis of diethyl carbonate using urea and ethanol over Zn-Mn-Al mixed metal oxide

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Abstract:

Dialkyl carbonates have attracted widespread interest during the last decades due to their extensive industrial applications.[1] As an important homologue of the dialkyl carbonate family, diethyl carbonate (DEC) has become increasingly important as a green solvent, used as an alternative for some toxic substances such as phosgene, dimethyl sulphate and alkyl halide in carbonylation and alkylation reactions, and plays an important role as a electrolyte in lithium ion batteries.[2–4] Additionally, DEC can be used as an ideal additive for gasoline for its higher oxygen content and favorable fuel/ water distribution coefficient with negligible environmental pollution.[5]

Up to now, DEC can be synthesized via several routes: phosgenation of ethanol,[6] oxidative carbonylation of ethanol,[7,8]transesterification of organic carbonates,[9,10] and ethanolysis of urea,[11,12] among which ethanolysis of urea is particularly promising due to cost effectiveness, mild reaction conditions and safe operations. Furthermore, this process involves an indirect utilization of CO_2: the by-product ammonia can be recycled and further reacts with CO_2 to produce urea, which is sustainable and friendly process. Zinc oxide (ZnO) catalyst has been

commonly used in this reaction with a relatively high yield of DEC, but suffered from dissolution of solid ZnO during the reaction.[13]

Therefore, the exploration of highly efficient, stable catalysts is desirable. Previous studies have shown that both acidity and basicity are crucial to determine the catalytic performance in ethanolysis of urea;[14,15] however, the cooperation of acid–base sites as well as their respective contribution to catalytic performance are unclear. Thus, how to tune the acid–base properties of catalysts so as to achieve a synergistic catalysis with a high stability and efficiency remains a challenge. Now days, this issue was solved by co-operative acid-base catalytic performance of mixed metal oxides as a heterogeneous catalyst.

In this work, by using sol gel method, we have prepared Mn/Zn/Al mixed metal oxides (denoted as $Mn_xZn_{1-x}Al_2O_4$–MMO) derived from Mn–Zn–Al layered double hydroxides (LDHs) precursors. Their catalytic performance with different Mn/Zn mole ratios toward the synthesis of diethyl carbonates (DEC) from urea and ethanol was studied in detail, and the highest catalytic activity was obtained over the $Mn_{0.50}Zn_{0.50}Al_2O_4$ MMO catalyst (DEC yield: nearly up to 40%).

This protocol provides an effective method for the synthesis of diethyl carbonate.

Keywords: Mixed metal oxides, Diethyl carbonate, Catalysts

PP-07: Evaluation of antioxidant and anticancer potential of Adenoon Indicum Dalz. leaves against human colorectal cancer

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Abstract: Cancer is the second leading cause of the death globally. Nearly 2 million cases of colorectal cancer were identified in 2020, making it the third most prevalent cancer type globally. With almost 1 million deaths per year, it is the second most frequent reason for cancer mortality. Currently available chemotherapeutics applications have been limited owing to the nonspecificity, increased multi-drug resistant and fatal side effects. Therefore, there is a dire need to develop herbal remedies for the effective treatment of colorectal cancer. The Adenoon Indicum Dalz. leaves have been reported to show various biological activities such as astringent, laxative, diuretic, antiseptic, and anticancer, though the dearth of research is to validate its anticancer potential against colorectal cancer. The present research was aimed towards the assessment of the antioxidant and anticancer potential of methanolic extract of Adenoon Indicum Dalz. leaves on human colorectal HTC-116 cancer cell line. The extract of M. indica L. showed promising antioxidant activity. Moreover, the extract demonstrated considerable in vitro cytotoxicity against HTC-116. However, further development of nanoparticulate system incorporated with Adenoon Indicum Dalz. leaves extract and evaluation their anticancer activity in vivo using a suitable animal model is highly required.

Keywords: Colorectal cancer; Adenoon Indicum Dalz. leaves extract; antioxidant activity; anticancer activity

PP-08: Sustainable synthesis of diaryl ethers using saw dust supported Ag (I) *N*-heterocyclic carbene complex

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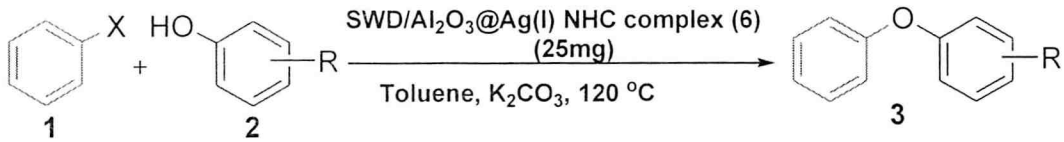
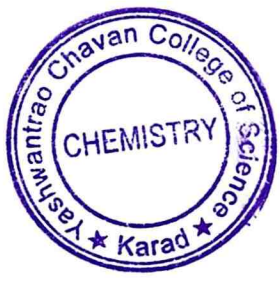
Abstract: Diaryl ethers are medicinally important scaffold found in antitumor, antibiotics and anti-HIV agents. They are valuable intermediates in organic synthesis, versatile building blocks used in the synthesis of natural products. Transition-metal promoted transformations are most preferred mode for synthesis of several kinds of organic molecules. Owing to the fascinating properties of diaryl ethers, variety of catalytic systems has been reported so as to expand effectiveness of this protocol. Many of them suffer from several problems including unsatisfactory yield and troublesome chemical process management. Thus, highly efficient method for the synthesis of diaryl ether is desirable as there is ample of room for improvement especially toward developing green procedure using recyclable and highly robust heterogeneous catalyst.



Scheme 1

In the present work, we have synthesized sawdust supported *N*-heterocyclic carbene-Ag (I) complex. The resultant catalyst has been characterized by FT-IR,



XRD, XPS, TGA, SEM, EDX analysis. The catalytic activity of complex was explored in the synthesis of diaryl ethers (**Scheme 1**). Operational simplicity, good yields, clean reaction profile, facile separation and excellent reusability of catalyst are noteworthy merits of reported protocol.

PP-09: Study of catalytic and antimicrobial activity of Sol-gel synthesized molybdenum doped on Ceria oxide

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Abstract: Bimetallic nanomaterials are the most important and widely employed categories of solid acid catalysts, either as active phases or as supports. Application of these mixed metal oxides nanomaterials has an important role in organic transformations, due to their simplicity in handling, decreased reactor and plant corrosion problems, cost effectiveness and because most of the mixed metal oxides are reusable and recyclable.

In view of this, series of molybdenum doped on Ceria oxide synthesized by using Ultrasonicated sol-gel method with precursors of ammonium hepta molybdate and Cerium nitrite respectively. These synthesized mixed oxides were calcined and characterized by using FT-IR, XRD and TGA techniques. XRD showed highly crystalline material with nano size and confirmed the presence of phases of CeO2 and MoO3. Photochemical degradation of dyes and Antimicrobial activities were also studied against the two microorganisms i. e. gram positive and gram negative. These series of catalysts study revealed the importance of doped material in catalysis and biological activity.

Keywords: Metal oxides, Nanomaterials, Ceria oxide, microorganism, catalysis

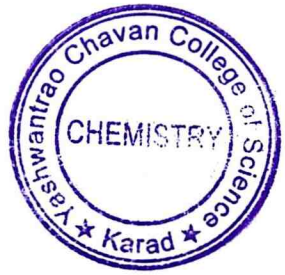
References:

1 A.B. Kulal M.K. Dongare S.B. Umbarkar, Sol gel synthesised WO3 nanoparticles supported on mesoporous silica for liquid phase nitration of

aromatics, *Appl. Catal. B: Environmental*, 182, 142-152, 2016.

2 A. Sua´rez-Go´mez; Santiago J. A. Figueroa;Diego G. Lamas; Julio C. Cezar, A crystallization and structural study of the compound $Pb_2V_2O_7$ synthesized by a facile sol–gel-based chemical route, *J. Sol-Gel Sci Technol*, 75:291–297, 2015.

3 Rakesh K. Sharma, Sriparna Dutta, Shivani Sharma, Radek Zboril,R ajender S. Varma and Manoj B. Gawande., Fe_3O_4 (iron oxide)-supported nanocatalysts: synthesis, characterization and applications in coupling reactions, *Green Chem.*, 18, 3184-3209, 2016.



PP-10: Environmentally benign, magnesium oxide catalysed synthesis of oximes: a probe for development of carbon-nitogen bond

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Abstract:

Background: Synthesis of oximes is an important reaction in organic chemistry. However these versatile oximes are used for protection, purification, and characterization of carbonyl compounds. Nitriles, amides via Beckmann rearrangement, nitro compounds, nitrones, amines, and aza-heterocycles can be synthesised from oximes. They also find applications for selective alpha-activation. In inorganic chemistry, oximes act as a versatile ligand. Several procedures for the preparation of oximes exist, but, most of them have not addressed the green chemistry issue. They are associated with generation of pollutants, requirement of high reaction temperature, low yields, lack of a generalized procedure, etc. Hence, there is a demand for developing an efficient, convenient, and non-polluting or less polluting alternative method for the preparation of oximes. In this context, magnesium oxide is very useful as it is cheap, commercially available, air stable crystalline solids, safe, and non-toxic, hence easy to handle.

Results: Carbonyl compounds (heterocyclic, and aromatic) were converted into the corresponding oximes in excellent yields by simply mixing the reactants at room temperature in aqueous solvent in the presence of Mg_2O. Most importantly,

this method minimizes waste disposal problems, provides a simple yet efficient example of unconventional methodology and requires short time.

Conclusions: We have developed a novel, quick, environmentally safe, and clean synthesis of aldoximes and ketoximes under aqeuous condition.

Keywords: oximes, carbonyl compounds, Mg_2O, aqeous chemistry, eco-friendly

References:

1. J.-T. Li, X.-L. Li and T.-S. Li, *Chinese J. Org. Chem.*, **26(11)**, 1594 (2006) and references cited there in
2. A. R. Hajipour, S. E. Mallakpour and G. Imanzadeh, *J. Chem. Res. (S)*, 228 (1999).
3. H. Sharghi and M. Hosseini, *Synthesis*, 1057 (2002)
4. H. Sharghi, and H. M. Sarvari, *Synlett,* 99 (2001).
5. K. C. Nicolaou, C. J. N. Mathison and T. Montagnon, *J. Am. Chem. Soc.*, **126**, 5192 (2004)
6. K.C. Nicolaou, C. J. N. Mathison, T. Montagnon, *Angew. Chem. Int. Ed. Engl.*, **115**, 4211 (2003)
7. R. Joseph, T. Ravindranathan and A. Sudalai, *Tetrahedron Lett.*, **36**, 1903 (1995)
8. Y. M. A. Yamada, H. Tabata, H. Takahashi and S. Ikegami, *Synlett*, 2031 (2002).

PP-11: A green approach for C–H Arylation of Benzoxazole using efficient heterogeneous Magnetic Nanoparticle supported *N*-Heterocyclic Carbene-Nickel Complex

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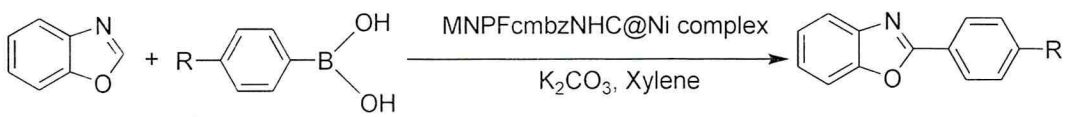
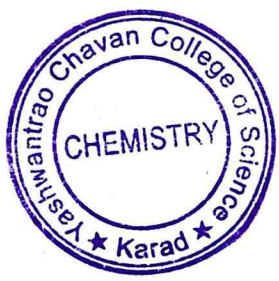
Abstract: In the recent years, transition-metal-mediated C-H arylation of benzoxazole has received tremendous attention in the synthetic chemistry. The arena has witnessed extensive development especially in the synthesis of bioactive scaffolds and diverse complex molecules in organic and organometallic chemistry. In this regard, C–H arylation of benzoxazole has been a frontier area of research due to noteworthy biological activities of 2-substituted benzoxazoles like antitumor, anticancer and inhibitory activities. Additionally, 2-substituted benzoxazoles are commonly found moieties in agrochemicals, metal sensors, engineering plastics, optical brighteners for textiles. In view of their interesting properties, a large number of protocols have been reported for the synthesis of 2-aryl benzoxazoles *via* C–H activation. However, many of them suffer from drawbacks such as harsh condition, large reaction time etc. Therefore, novel efficient synthetic methods to C–H arylation of benzoxazole are still needed.



Scheme 1



In the present work, magnetic nanoparticle supported *N*-heterocyclic carbene–nickel complex has been prepared. The resultant complex was characterized by FT-IR, XRD, TEM, VSM and XPS. The magnetic nanoparticle supported *N*-heterocyclic carbene-nickel complex was efficiently employed for synthesis of C–H arylation of benzoxazole with aryl boronic acids (**Scheme 1**). The short reaction times, good stability, excellent yields, facile magnetic separation and excellent reusability of complex are important features of reported protocol.

PP-12: Structural and electrical properties of Mg substituted Mn ferrite by sol-gel method

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Abstract:

$Mg_{1-x}Mn_xFe_2O_4$ (where x= 0.0, 0.25, 0.50, 0.75, 1.0) ferrite nanoparticles diffraction Analysis were synthesized by sol-gel auto-combustion method. The thermal decomposition process was investigated by Thermo Gravimetric Analysis (TGA) and Differential Thermal Analysis (DTA) technique. The phase composition of Magnesium substituted Manganese ferrite samples were characterized by powder x-ray diffraction analysis (XRD). The entire sample showed formation of cubic spinel symmetry. The DC conductivity studies of sample reveal their semiconducting nature. The thermal analysis shows formation of spinel phase at 1273K. The lattice parameter and X-ray density increases with increasing Mn content. The stoichiometry of sample matched with calculated one. The electrical resistivity of all sample decreases with increasing temperature.

Key Words: Sol-gel auto-combustion, TGA, DTA

PP-13: Dissolution of erythromycin stearate by using UV spectroscopy

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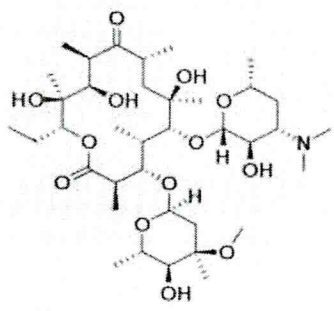
Abstract:

An UV Spectrometric method for the quantitative determinations of Erythromycin, macrolide antibiotics in tablets was developed in present work. The parameter linearity, precision, limit of detection, limit of quantization, range wear studied according to International Conference on Harmonization guideline. UV spectroscopic determination was carried out at an absorption maximum of 285 nm using methanol as solvent. Results of the analyses were validated statistically and by recovery studies. The proposed method is simple, rapid, precise and accurate and can be used for the reliable quantisation of Erythromycin in pharmaceutical formulation. In the UV spectroscopic method linearity over the concentration range of Erythromycin was found to be 1-9 ug/ml with a concentration coefficient 0.9873.

Erythromycin



Molecular Formula:$C_{37}H_{67}NO_{13}$, Molecular Weight: 733.92

Key word: UV Spectroscopy.

References:

1. Labeda, D. P. Transfer of the type strain of Streptomyces erythraeus to the genus Saccharopolyspora Lacey and Goodfellow as Saccharopolyspora erythraea sp. Nov., and designation of a neotype stain for streptomyces erythraeus. Int. J. syst. Bacteriol. 1987; 37: 19- 22.
2. O'Neil, M. J., Smith, A., Hecklman, P. E. and Budavari, S. The Merck Index – An Enclopedia of Chemicals, Drugs and Biligicals. 13th ed, 2001, O'Neil, M. J., Smith, A., Hecklman, P. E. and Budavari, S. The Merck Index – An Enclopedia of Chemicals, Drugs and Biligicals. 13th ed, 2001, pp. 654-655.
3. Chitneni SK, Govaerts C, Adams E, Schepdael AV, Hoogmartens J. Identification of impurities in erythromycin by liquid chromatographymass spectrometric detection. J. Cheomatogr. 2004; 1056: 111-120.
4. Dehouck P, Van Looy E, Haghedooren E, Deckers, Vander Heyden Y, Adams E, Roets E Hoogmartens J. Analysis of erythromycin and benzolperoxide in topical gels by liquid chromatography. J. Chromatogr. 2003; 794:293-302.
5. Omura S. Macrolide Antibiotics: Chemistry, Biology and Practice. Academic Press. Orlando, U.S.A. 1984, 26.

PP-14: Photocatalytic degradation study of Congo red using Mg-Co ferrite powder

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Abstract:

The photocatalytic degradation of methyl orange and Congo red dye was performed under the illumination of visible light (Philips 250Watt) as a source of photons. The complete distraction of the aromatic ring was ascertained by UV spectroscopic analysis. A decrease in dye concentration and an increase in the concentration of CO2 indicate dye mineralization. The behavior of this reaction was pseudo-first-order and the maximum photodecolorization efficiency was ~85.16% for Methyl orange and ~ 95.40 for Congo red in 120-150 min. at 30^{o}C.

- ❖ XRD-All the indexed diffraction peaks correspond to the (111), (220), (311), (400), (422), and (511) planes of polycrystalline spinel ferrite.
- ❖ Effect of irradiation time on photodegradation of Methyl orange dyes. The further comparison reveals ~90% degradation of Congo red within 120 min of irradiation .
- ❖ Effect of catalyst dose on the photodecolorization rate--

The maximum rate constant and PDE % are found at dose 2.0 g/ 100 mL of $Mg_{0.5}Co0.5Fe_2O_4$ 95.40% at 60 min.

- ❖ Reusability study of catalyst

The effect of catalyst used after several runs on the dye solution at conditions: dose (2.0) g/100mL, conc. = 30 ppm, initial pH of solution = 5.5 and T= 303K. The

PDE% for Congo red is 95.40%. The photodegradation rate further goes on decreases after each successive run.

References:

1] Fang–chang Tasi, Ning Ma,Tai-chin Ching,Yue Xia, Fusheng chuang, Journal of water process engineering, vol. 1(2014),2-7.

2] Lu Xiaomeng, Xie Jimin, Song Yuanzhi, *J. Mater. Sci. Vol.42 (2007) 6824-6827.*

3] Kansal SK, Singh M, Sud D (2007) *J. Hazard Mater.*141:581–590. https://doi.org/10.1016/j.jhazmat.2006

4] Sakthivel S, Neppolian B, Shankar MV, Arabindoo B, Palanichamy M, Murugesan V (2003) Sol Energy Mater Sol Cells 77:65–82. https://doi.org/10.1016/s0927-0248(02)00255-6

5] L. M. Ahmed, Asian J. Chem,Vol. 30,Iss.9, (2018), 2134.

PP-15: Effect of sintering temperature on selectivity of zinc ferrite as gas sensors

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Abstract

The effect of variation in sintering temperature (500-900°C/4h) of $ZnFe_2O_4$ synthesized by using co-precipitation method on the gas sensing characters. The spinel structure and the presence of residual phases were checked by XRD analysis. Gas sensing response was evaluated as a function of operating temperature for different test gases/vapours such as ammonia (NH_3), chlorine (Cl_2), LPG, CO_2, hydrogen sulphide (H_2S) and Hydrogen (H_2). Maximum gas response activity was achieved at 300^{0}C concentration for hydrogen sulphide gas.

- The XRD patterns reveal spinel cubic structure for the synthesized materials.
- The particle size is calculated from the most intense peak (311) using the Scherrer formula.
- Selectively $ZnFe_2O_4$ exhibit response towards hydrogen sulphide than ammonia, chlorine, LPG, CO_2 and H_2 gases/vapours.
- Zinc ferrite gives better response towards hydrogen sulphide at 300°C.
- The gas sensing activity decreases with increase in the sintering temperature were studied.
- The material used for the detection of toxic and hazardous gases at commercial as well as industrial level.

References

1] K. Xu, J. Liu, G. Lu, Materials Res. Bull. 31(1996) 1049.

2] W. Schiessl, W. Potzel, H. Karzel, Phys. Rev B53(1996) 9143.

3] R. Lui, X. Zhong,S. Shang,S. Wang and M. TangRoyal Society Open Science,5: 171691 (2018) 1-11.

PP-16 Synthesis, Characterization and Reusability of Mg1-xMnxAl2O4 for degradation of Rhodamine B

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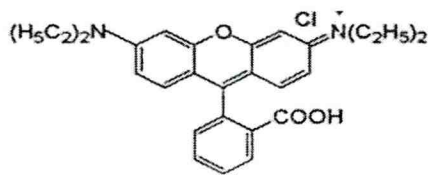
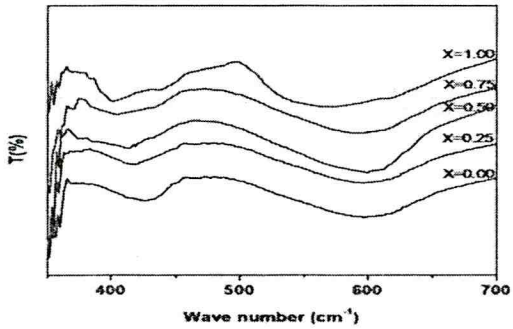
Abstract:

Nanocrystaline compounds of Mg1-xMnxAl2O4 (x = 0.0, 0.25, 0.50, 0.75, 1.0) were prepared by using simple sol-gel method. The synthesised material were charactrised by differenet spectroscopic techniques such as, The thermal stability of samples were checked by taking TGDTA, The study of XRD shows the formation of single cubic spinel phase with average crystalite size 28 nm. The composition of Mg0.50Mn0.50Al2O4 show spherical interlinked fibrous morphology. The surface morphology of the sample are observed by the use of scanning electron microscopy. The purity of synthesised were checked by using an energy dispersive X-ray spectroscope. The FTIR spectra were recorded in the range of 350- 700 cm-1 using KBr pellets. The particle size was estimated using TEM. In the present investigation an attempt has been made to the synthesis of fine Mg1-xMnxAl2O4 mixed metal oxide powders by sol-gel auto combustion method and investigated for their dye degradation and reusability.



Structure of Rhodamine B

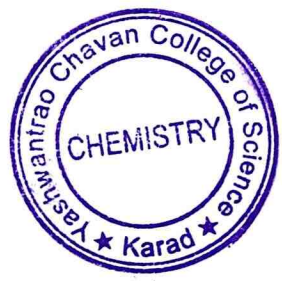


Infrared Spectra of $Mg_{1-x}Mn_xAl_2O_4$ ($0 \leq X \leq 1$).

Key words: Sol-gel method, XRD, EDAX, SEM, TEM and IR.

References:

1. Pratik A. Asogekar and V. M. S. Verenkar.. (2019). Structural and magnetic properties of nanosized CoxZn(1-x)Fe2O4 (x= 0.0, 0.5, 1.0) synthesized via autocatalytic thermal decomposition of hydrazinated cobalt zinc ferrous succinate, Ceramics International,Volume 45, Issue 17, Part A, Pages 21793-21803. https://doi.org/10.1016/j.ceramint.2019.07.182
2. P. K. Roy and J. Bera..(2005).Effect of Mg substitution on electromagnetic properties of (Ni0.25Cu0.20Zn0.55)Fe2O4 ferrite prepared by auto combustion method, Journal of Magnetism and Magnetic Materials. Volume 298, Issue 1, Pages 38-42. https://doi.org/10.1016/j.jmmm.2005.03.007
3. Asghar Taheri-Kafrani, Hamidreza Shirzadfar, Abolghasem Abbasi Kajani, Bassam K. Kudhair, Layth Jasim Mohammed, Shima Mohammadi and Fatemeh Lotfi..(April 2021). Functionalized graphene oxide/Fe3O4 nanocomposite: A biocompatible and robust nanocarrier for targeted delivery and release of anticancer agents, Journal of Biotechnology. Volume 331, Pages 26-36. https://doi.org/10.1016/j.jbiotec.2021.03.005



PP-17 Baseline study of soil at koyna-river area in patan tehsil of satara district

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Abstract:

The fertility of the soil in Patan tehsil Patan the attachment area of the Koyna river gives variation in the parameter. The region has some specific doses of fertilizers like 100:100:50 for N, P, K which improve the quality of the crops like rice.

In this research, we focused on soil fertility along with their pH value, nutritional level, conductivity, and mineral level. For this study, we selected the Koyna basin. We chose Patan Tehsil and covered its villages. Koyna river runs in all three Seasons. Many minerals and salts found in river water. Most of the farmers use river water for irrigation and through the water, these materials shift from basin to the land. The soil nature affected the quality and quantity of the crop. So we interested to know the soil nature and which crop can we grow in this environment and irrigation awareness among the farmers to maintain a healthy environment of soil for a long time.

Key words: Fertility of soil, heavy rainfall, crop yield, crop pattern

PP-18: Recent advancement in mesoporous silica for removal of metal ions from water

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Abstract:

Mesoporous silica nanoparticles (MSNs) were firstly discovered in late 1970 and later Japanese scientists independently synthesized the MSNs in 1990. These materials are comprised of porous structures with hundreds of atomic levels arranged mesoporous and later the same report was produced by American scientists at the Mobile Research and Development Corporation in 1992. Mesoporous silica nanoparticles (MSNs) are silica based nanoparticles, they are silicate which have 2D structure with well-defined pore networks having hexagonal structure. MSNs have the large surface area due to ordered and regular arrangements of the monopores.

MSNs have many advantages due to its porous structures with pore size in the 2-50 nm range, large pore volume (up to 2.5 cm3/g), high surface area (>1000 m2/g), tunable pore diameter (1.3-50 nm), ease of functionalization due to surface hydroxyl groups, biodegradable, high chemical and biological stability with good biocompatibility. In this work we are highlighting statistics form literature search about the reports on mesoporous silica for removal of metal ions from water.

PP-19: TiO_2 Sensitized by Safranine O Dye using UV-A Light System

Satyajit Patil, Ajit Takle, Shubham Shinde, Digvijay Kanse, Jayesh Gotal, S. D. Jadhav*

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Abstract:

This study examined the photocatalytic decolorization of safranine O dye by using TiO_2 powder as a photocatalyst, under illumination with using artificial UV-A-light. The behavior of this reaction was pseudo first order and the maximum of removal was 88.176% in 100 min. at 30°C. The increased of reaction temperature enhances the photoreaction, with positive ΔH that equal to 20.552 kJ mol-1 and given low activation energy reach to 22.609 kJ mol-1. The Fenton reaction was applied in aqueous solution of this dye with the using TiO_2 powder and given maximum photo decolorization efficiency.

Conclusions

- The photocatalytic decolorization process of safranin O dye in suspension solution of TiO_2 powder under UV-A light system was done. This photoreaction is found to be fast, endothermic and obeyed the pseudo first order with low activation energy.
- The efficiency for decolorization of safranine O dye with the using the best amount of TiO2 powder under addition some oxidant agents have followed by the sequences:

- ❖ PDE% using Fe(II) < PDE% without oxidant agents < PDE% using H_2O_2 < PDE% using (mixture from H_2O_2 and Fe(II)).
- ❖ The using of Fenton reaction was enhanced the efficiency that changed from 88.176% to 98.838% at 100 min.

References

1. L. M. Ahmed and F. H. Hussein, , 1st ed., LAP Lambert Academia Published, Germany, 2014.
2. M. S. Mashkour, A. M. Al-Kaim, L. M. Ahmed and F. H. Hussein, "*Int. J. Chem. Sci., 9(3), 969, (2011) and references cited therein.*
3. B. Neppolian, S. R. Kanel, H. C. Choi, M. V. Shankar, B. Arabindoo and V. Murugesan, *International Journal of Photoenergy,* ***5,45, (2003).***
4. M. Jaafar, *Journal of Geoscience and Environment Protection,* ***5, 138, (2017).***

PP-20: Development of anti-microbial copper nanoparticles via green chemistry approach

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Abstract:

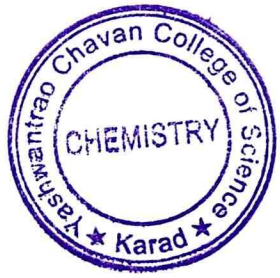
Nanoparticals are one of most utilised chemicals due to their widespread range of applications. Green chemistry is an attractive approach for development of the metallic nanoparticals in which plants extracts are utilised to develop the metallic nanoparticals so that the development undesirable by products which are associated with the chemical methods can be eliminated. Objectives: This study was developed with an aim to develop copper nanoparticals using Fagonia Arabica leaf extract and evaluate their anti-microbial activity. Materials and Method: Aqueous extract of Fagonia Arabica was utilized for the green synthesis of copper nanoparticles. The prepared system was characterized using UV-VIS spectroscopy, XRD, SEM, EDAX. The antimicrobial evaluation of prepared system was carried out using diffusion plate against B. subtilis, P. aeruginosa and S. aureus. Results and DiscussionThe spectroscopic analysis of prepared system showed sharp peak at 381 nm in UV which corresponds to the production of copper nanoparticles. SEM analysis showed spherical shaped copper nanoparticles with size range of 32 nm. EDAX showed presence of elements like C, S, O and Cu which indicated development of the CuNPs .Antimicrobial study reveals that green synthesized

copper nanoparticles had shown antibacterial activity against selected three microbial cultures.

Conclusion:

Current study concludes that green chemistry can be an attractive technique for development of Fagonia Arabica copper nanoparticles as potent antimicrobial agents. More advantageous over use of micro-organisms by less elaborate process of maintaining cultures and does not induces toxic nanoparticles.

Keywords: Green Chemistry, Nanoparticals, Antimicrobial



PP-21: Development and Industrial applications of Transdermal patch: Formulated by using Silver (Ag Nps) Nanoparticles of Terminaliabellerica plant extract

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Abstract:

Present study was designed for green synthesis of silver (AgNPs) nanoparticles by using Terminalia bellerica plant extract and their pharmacological evaluation. Terminalia bellerica is characterized by powdered microscopical characters and specific chemical tests. Alcoholic extract of Terminalia bellerica were obtained by continuous heat extraction method. A Chemical constituent were Isolated from Terminalia bellerica extract by using TLC and Column chromatography. Plant extract (TB) is mixed with silver nitrate solution respectively, incubated and studied synthesis of nanoparticles by using The nanoparticles synthesized were irregular and rectangular in shape having average particle size 10-50 nm. The activity was assessed by studying the follicle count, skin thickness, hair weight. nano-formulate (AgNPs) which will be incorporated into suitable dosage form like fast dissolving film for generation of novel drug delivery system with specific on set of action on epidermis which improved therapeutic efficacy for treatment of hair growth activity. It was concluded that Green synthesized (TBAgNPs) nanoparticles shows the enhanced pharmacological activities. It may have potential as a hair growth promoter.

Keywords: Terminalia bellerica, silver (AgNPs) nanoparticles, Transdermal Patch

PP-22: Development and characterization of functionalized single walled carbon nanotube loaded Oxaliplatin: *in vitro* cytotoxicity and apoptosis study

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Abstract:

The study was aimed to anchor folic acid, chitosan and Oxaliplatin to the functionalized single walled carbon naotubes for colon targeted delivery so as to target folate receptors that are over expressed in colon cancers. The developed system (FA-CHI-FSWCNT-OXA) was characterized by FTIR, SEM, TEM, XRD, TGA, and DSC also evaluated for entrapment efficiency, drug release, apoptosis and *in vitro* cytotoxicity against COLO320DM and HT29 cell lines by MTT and SRB assay. The results of FTIR studies confirmed the attachment whereas TEM results exhibited 1-300nm size of the developed system. Drug entrapment in CNT was found to be 93.43±1.65% and *in vitro* drug release was found to be 94.73±0.8956 % at 24 hrs by dialysis bag method. Cytotoxicity by MTT assay of system showed 92.36±0.9421% inhibition as compared to Oxaliplatin which exhibited 66.58±0.3785% inhibition. In SRB assay, developed system showed 91.22±0.8950% inhibition, whereas, Oxaliplatin showed 76.69±0.5227% inhibition. Against HT29 developed system exhibited

better cytotoxicity effects as compared with plain Oxaliplatin. Our findings are suggestive of potential development of CNT loaded antineoplastic agent(s) for target specific delivery.

Keywords: Carbon nanotube; fictionalization, Oxaliplatin; colon cancer; cytotoxicity; apoptosis

PP-23: Synergistic effect of synthesized iron nanoparticles of neem extract with conventional antibiotic against gram positive and negative microorganism

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Abstract:

Nowadays, several antibiotics used for the treatment of a variety of infectious human diseases possess a limited antimicrobial spectrum due to the emergence of multi drug-resistant (MDR) bacterial strains. It has therefore lead to the use of two or more antimicrobial agents as a combination treatment for preventing or delaying the emergence of resistant microbial strains and in certain cases to also exhibit a synergistic effect which proves to be useful in the treatment of bacterial infections especially in otherwise resistant-bacteria cases. Neem, a traditionally known plant in the Indian system of medicine is a worldwide recognized natural antibiotic. Thus, in the present investigation an attempt has been made to study the effect of use of Iron nanoparticles of Neem extract along with several antibiotics as a combination to overcome the occurrence of resistance.

Methods and Materials

Iron nanoparticles of the alcoholic extract of neem leaves were used for the study. Solution A containing Iron nanoparticles 5 mg/mL alone, Solution B comprising of Standard antibiotics alone 5 mg/mL and Solution C containing combination of 2.5 mg/mL of Iron Nanoparticles and a selected standard antibiotic at a concentration

of 2.5 mg/mL were tested for their antibacterial potential against the selected strains of micro-organisms namely Staphylococcous aureus, Pseudomonas aeruginosa, E. coli and Bacillus subtilis using agar plate technique.

Results

The antimicrobial activity was assessed by measuring the diameter of zone of inhibition. The results indicated the synergistic activity exhibited by the combination of Iron nanoparticles and half the concentration of the standard antibiotics used in the study. Thus, the dose of standard antibiotics may be reduced to almost half in concentration when combined with the Iron nanoparticles of Neem extract without compromising their efficacy. The use of natural antibiotic thus helps to achieve reduction in dose of standard antibiotic.

PP-24: Isolation, Characterization of cellulose degrading organism from rhizospheric soil of *Cajanus cajan*

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Abstract:

Cellulose is most abundant organic compound on earth. It is complex carbohydrate consisting of oxygen, carbon and hydrogen. It is important structural unit of plant cell wall. Cellulose degraders plays important role in degrading cellulosic material by producing cellulase enzyme.

The aim of present study was to isolate the microorganisms from different geographical locations, capable of producing cellulase with microbial activity. Soil sample were collected from different areas. They are enriched in carboxy methyl cellulose medium for 10 days from that pure isolates obtained and their biochemical performed to identify genus level, isolates screened by 1% Congo red, 1N NaCl to produce clear zone. Enzyme obtained by centrifugation of enriched pure culture and optimized.

Keywords: Cellulose, cellulose enzyme, carboxy Methyl Cellulose.

PP-25: Application of Green chemistry in Nanotechnology

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Abstract:

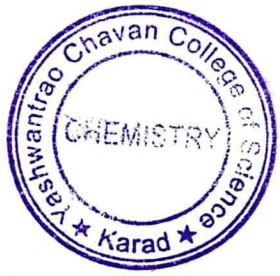
Green chemistry is the design of chemical product and processes that reduce or eliminate use of Hazardous substances. In addition Paul Anastas has developed "The Twelve Principles of Green Chemistry" a framework widely used by industry and universities. Nanoscale metals are widely used in many fields such as environment, medicine, and engineering that synthesis of nanoscale metals is a timely topic.

The green synthesis of nanoparticles (NPs) using living cells is a promising and novelty tool in bionanotechnology. Chemical and physical methods are used to synthesize NPs; however, biological methods are preferred due to its eco-friendly, clean, safe, cost effective, easy, and effective sources for high productivity and purity.

Carbon dots (CDs) are nanoparticles with tunable physicochemical and optical properties. Their resistance to photobleaching and relatively low toxicity render them attractive alternatives to fluorescent dyes and heavy metal-based quantum dots in the fields of bioimaging, sensing, catalysis, solar cells, and light emitting diodes, among others.

Nanofibers, the widely applied in various field of science research is one of the important area in nanotechnology research .nanofibers can be classified polymeric, ceramic and composite nanofibers depending upon the material used.

Conclusion: Green synthesis employs a clean, Safe, cost effective and environmentally, Friendly prosess of constructing Nanomaterials. Increased energy Efficacy, reduced waste and greenhouse gas emission, and decressed composition of non-renewable raw material are the main advantages of green nanotechnology.



PP-26: Qualitative phytochemical analysis of wild vegetables

Saish Shinde, Manasi Masugade, Nehali Nikam, Nilofar Shikalgar, Harsh Mali, Rutuja Bhosale and Kirtane Sushama
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Abstract:

Wild Vegetables are the vegetables, which grow and survive naturally without any special care. Wild vegetables are very precious gift of nature as they are very rich source of valuable phytochemicals. Review of literature indicates that, they are not only nutritionally but also medicinally valuable and are beneficial for health of human being.

The research on the phytochemical analysis of Wild Vegetables is a need of an hour. Keeping this view in mind, the present investigation on qualitative analysis of phytochemical of wild vegetables viz. *Amaranthus spinosus* L., *Moringa oleifera* Lam., *Clerodendrum serratum* L., *Portulaca oleracea* L. was carried out. The qualitative analysis of phytochemical's includes - alkaloids, flavonoids, terpenoids, saponin, tannin, phenols, glycosides. The overall result obtained, indicated that, tests were positive for all the wild vegetables. The test for terpenoid were absent in leaves of *Clerodendrum serratum* L. The test for phenols were negative for *Portulaca oleracea* L. The positive or negative tests indicates, the presence or absence of phytochemicals respectively.

Key words: Wild vegetables, Phytochemical, Qualitative analysis

PP-27: Primary detection of phytochemicals from medicinal plants: *Plumbago zeylanica* L. and *Synedrella nodiflora* L.

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Abstract:

Most of the population of the world is dependent on medicinal plants as a primary health remedy. It is also estimated that, 3.3 billion individuals are regularly use traditional wild medicinal plants. Medicinal plants/herbs, have been discovered and used in traditional medicine practices since ancient times. Review of literature indicates that, Medicinal plants are rich source of important phytochemicals, phyto-nutriceutical's, vitamins, minerals, dietary fibre etc. which are beneficial for health of human being.

In the present investigation, primary detection of phytochemicals such as Alkaloids, Carbohydrates, Flavonoids, Phenols, Saponins, Tannins, Terpenoids, Anthraquinones, Glycosides, Amino acids and proteins, Gums of Plumbago zeylanica and Synedrella nodiflora were analysed by using standard methods. The results obtained indicates that, test for Terpenoids, Gums were negative for Plumbago zeylanica and positive for Alkaloids, Carbohydrates, Flavonoids, Phenols, Saponins, Tannins, Anthraquinones, Glycosides, Amino acids and proteins. While for Synedrella nodiflora, test of Alkaloids, Flavonoids, Anthraquinones, Glycosides, Gums was negative and tests of Carbohydrates, Phenols, Saponins, Tannins,

Terpenoids, Amino acids and proteins were positive. The positive and negative tests confirm the presence and absence of these phytochemicals respectively.

Keywords: Medicinal plants, Phytochemicals, Plumbago zeylanica L., Synedrella nodiflora L.

PP-28: Formulation and evalution of bio-adhesive bandage for bone fracture

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Abstract:

Formulation and evaluation of bio adhesive bandage is very helpful for wound healing. Bioadhesion includes cell-to-cell adhesion, bacteria binding to surfaces, adhesion to mucous membranes and the use of adhesive materials in medical treatments (such as in drug delivery devices, tissue adhesives or wound dressings). A bandage is used to hold a dressing in place over a wound, to create pressure over a bleeding wound to prevent rapid blood loss and splinting of injured part of the body, which provide support to an injured part. Bio-bandages are made from herbal compounds that impart host compatible therapeutic properties. A bandage prepared with an adhesive, to which a pad is fixed to a central portion of the bandage containing herbal composition and a protective paper having opposed end portions removable attached to inside of the bandage. Band aid with herbal preparations can best aid towards microbial medicament of bio adhesive tape which are magnificence in appearance.

Keywords: - Bio-adhesive bandage, herbal, natural fiber, antimicrobial.

PP-29: Green Chemistry approach for synthesis of novel N-substituted 1,3,4-oxadiazole derivativeswith molecular docking, *insilico* ADME prediction and anticancer, antimalarial screening with QSAR study

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Abstract: 1,3,4-thiadiazole acetamide derivatives (3a-t) were synthesized by green chemistry approach. Molecular docking results highlight that fact that the compounds (3h, 3j and 3n) exhibited good docking scores and could be considered as possible hit as therapeutic agents. In addition, *in-silico* ADMET analysis was done to predict the ADMET properties. It was intresting to note that SwissADME results coherence with final result of the compounds which have pharmacological activity means compounds confirmed to be drug-like molecules. Series of Novel N-Substituted Synthesized compounds **(3h, 3j and 3n)** were characterized using IR, NMR and Mass spectroscopy. As Brine shrimp lethality assay that may prove quite helpful as a preliminary screen to determine toxic properties. Compounds produced **dose dependent cytotoxicity effect** to brine shrimp nauplii. These compounds shows promising anticancer and antimalarial agents. A significant correlation was observed between the *in-silico* studies and the pharmacological activity. The anticancer activity results was correlated with their physiochemical and structural properties by QSAR analysis using **PLS advanced method**. The selected model of 3D QSAR showed correlation of descriptors with anticancer activity. The resulting model exhibited **good q^2 and r^2** values respectively.

Keywords: 1,3,4-thiadiazole, Molecular docking, *In-silico* ADME, Brine shrimp lethality assay, Anticancer activity, Antimalarial activity, 3D QSAR.

PP-30: ZnO Nanoparticles Catalyzed Green and Highly Efficient Method for the Synthesis of 1,5-Benzodiazepines in Hydrotropic Medium at Room Temperature

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Abstract:

A green and highly efficient method was developed for the synthesis of 4-substituted 1, 5-benzodiazepines derivative via ZnO Nps. The o-phenylenediamine reacted with ketone derivatives in presence of ZnO Nps as heterogeneous catalyst under hydrotropic medium at room temperature. The Reaction was completed in short reaction time. Easy work-up, high yields and reusability of catalyst are the key advantages of this work.