

Extd: 1962 NAAC 'A' Grade SHIVAJI UNIVERSITY, KOLHAPUR - 416 004

Prioric : EPABX -2609000 Section - 2009141

For: +91-231 2691533, 2693294 A 2692133 Website www.moc.outp- in-

शिवाणी विद्यापीठ, कोल्हापुर ४९६,००४

पान इपोबीएक्स - 2609000 सेमीनार 2609141

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जा क्र : शिवाजी वि / सेमिनार /

12 - 3 AUG 2019

प्रति,

The Principal,

Dattajiruo Kadam Arts, Science & Commerce College, Ichalkaranji , Dist. Kelbapur

> विषय - नदीन बदललेल्या अभ्यासकमासंदर्भात सलग्न नहाविद्यालयीन शिक्षवाना प्रशिक्षण कार्यसाळा / शिबीर आयोजित कारण्याच्या मान्यतेथावतः

संदर्भ - इकडील कार्यालयीन जा क 293 वि 22/04/2019 चे परिपञ्जा

महोदय / महोदया.

लपरोक्त विषयसंदर्भाकित परिपत्रकानुसार शैक्षणिक वर्ष 2019-20 मध्ये नवीन बदललेल्या अभ्याराक्रमासंदर्भात आपणास आवेशान्वये कळविण्यात येते की B.Sc II Sem III Physical Chemistry and Industrial Chemistry या नवीन बदललेल्या अन्यासक्रमासंदर्शन आपण सादर केलेला प्रस्ताव समितीने भान्य केलेला असून यासाठी रू 18,000 / - इतके आर्थिक सहाय्य मंजूर केलेले असून सदर रक मेच्या 80% रक्कम %14,400/- ही तसलमात (अंडक्टम्स) म्हणून महाविद्यालयास स्वतंत्रपण गाठवून वेत आहोत.

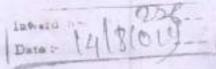
प्रस्ताविक वार्यशाळ / शिबीराच्या आयोजनाची कार्यवाही त्यरित करावी कार्यशाळा / शिबीर समाधीयतर ८७ दिवसाध्या आत संबंधित संयोजकांनी (पदव्यक्तर विभागप्रमुखानी / प्राचार्यानी कार्यशाळा / शिबीराच्या खर्चाचा संपूर्ण हिशोब व मूळ बील महाविद्यालगाने आपल्याक डेवावील आणि फक्त वितित नमुन्यामधील चार्टर्स अकॉन्स्ट यानी प्रमाणिल केलेले उपयोगिता प्रमागपत्र (Utilization Certificate) विद्याणित कार्यालकार पाठवृत द्यावे (तथापि कार्यशाळा /शिबीर खद्याचा सपूर्ण हिसाब व मूळ बील विसापीठ कार्यालयाच्या मागणीनुसार उपलब्ध करून देणे आयोजक महाविद्यालयास वंधनकारक राहील.) तसेच उपयोगिता प्रमाणपञासोबत कार्यशाळा / शिबीराचा सविस्तर अहवाल, उपस्थित असणा-या शिक्षकांच्या नावाची यादी इ. कागदपत्रे विद्यापीठास सादर करावीत. (समितीने आपल्या Affiliation → Seminar Section

अति । अति महाविद्यालयास मान्य केंट्रेन्या प्रस्तावाची माहिती विद्यापीठाच्या www.unishivaji.ac.in → Circular → Affiliation → Seminar Section या संकेतस्थळावर उवण्यात आलेली

आपला विश्वास्

सदर 30% तसलमात रक्कम संबंधीत महाविद्यालयास आदा करावी व सदरमा खर्च हा अंदाजपत्रकीय तरतुद A.2 P.21 मध्न खर्ची टाकावा

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"ज्ञान, विज्ञान आणि युगंस्कार यांसाठी ज्ञिक्षणप्रसार"

डिक्षणगतपीं डॉ. बापुतीमाळ्ंये.

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

Dattajirao Kadam Arts, Science & Commerce College,

Ichalkaranji. District: - Kolhapur

Department of Chemistry



Date:- 19.08.2019

To.

The Principal,

D.K.A.S.C. College, Ichalkaranji

Ref.No.: SUK/Seminar/No.8365 dated 03/08/2019

Subject: Permission to organise "One Day Workshop on Revised syllabus of B. Sc. II (CBCS) Paper – V Physical Chemistry" in collaboration with Shivaji University, Kolhapur

Respected Sir,

With reference to above letter, as Shivaji University, Kolhapur sanctioned Rs.18000 for organisation of workshop on revised syllabus, Department of Chemistry going to organise One Day Workshop on "Revised syllabus of B. Sc. II (CBCS) (DSC-C3) Paper – V Physical Chemistry" on Saturday, 31st Aug. 2019. So please give us permission to organise this workshop for Chemistry teachers from all colleges, affiliated to Shivaji University, Kolhapur.

Thanking You,

Yours Faithfully,

(Dr. A. A. Ghare)

HEAD,

Department of Chemistry,
Dattajirao Kadam Arts, Science
& Commerce College,
ICHALKARANJI.

A10000 P2-19.8.19

''क्वान, विक्वान आणि सुसंस्कार यासाठी शिक्षण प्रसार''

- शिक्षण महर्षी डॉ. बायुजी साळ्खे

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

Oattajirao Kadam Arts, Science and Commerce College, Ichalkaranji.

Tal. Hatkanangale, Dist. Kolhapur - 416 115 Phone: (0230) 2420412, Fax /Phone - (0230) 2424555

Index No.: J-23-06-001

NAAC - "A" GRADE

(Affiliated to Shivaji University, Kolhapur - No. Affi./T-2/5049 dt. 10-7-1999)

E-mail: dkasccollege@gmail.com, ich38.cl@unishivaji.ac.in
 Website: www.dkasc.ac.in

FOUNDER Hon. Shikshanmaharshi Dr. Bapuji Salunkhe

Estd.: June 1962

Hon, Chandrakant (Dada) Patil Revenue Minister, Maharashtra State

EXECUTIVE PRESIDENT Prin, Abhaykumar Salankhe

SECRETARY Prin. Mrs. Shubbangi Gavade M. Sc. B. Ed.

PRINCIPAL Dr. R. R. Kumbhar M. Sc., M. Phil., Ph. D.

Ref. No. DKASC : 865720 820 9

Date: 27/8/20/9

To.

The Principal,

All Affiliated Science Colleges,

Shivaji University, Kolhapur,

Subject : Regarding One-Day Workshop on Revised Syllabus in Chemistry at B.Sc. Part-II (CBCS) Semester- III, DSC-C3 Paper-V, Physical Chemistry

Ref: SU/SEMINAR/8365 dated on 03/08/2019

Dear Sir/Madam.

We are pleased to inform you that, we are organizing One-Day Workshop sponsored by Shivaji University, Kolhapur on Revised Syllabus in Chemistry at B.Sc. Part II Semester -III, DSC-C3 Paper-V, Physical Chemistry on Saturday, 31st August.2019 at college Auditorium.

You are requested to depute one teacher of chemistry department to attend the workshop. The workshop will start at 10:30 am on Saturday, 31st August, 2019. There will be no registration fees for the workshop. No T.A. and D.A. will be given to participants by the host college. As per University rule, the T.A. and D.A. of deputed teachers is to be borne by their own college. The programme schedule will be given at the time of registration.

We welcome your earliest response, just click the link to submit the registration form.

Registration Link: https://forms.gle/Q8k4tDEXQgC7t8198

Registration time and date: 9:30 a.m. to 10:30 a.m., Saturday, 31st August, 2019. Expecting your whole hearted co-operation.

Dr. A. A. Ghare

R. Kumbhar D.K.A.S.C. College,

Ichalkaranji.

Convenor

Co-convenor



''ज्ञान, विज्ञान आणि सुसंस्कार यासाठी शिक्षण प्रसार''

शिक्षण महर्षी हों, बायजी साळुंखे

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

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FOUNDER Hon. Shikshanmaharshi Dr. Bapuji Salunkhe

PRESIDENT Hon, Chandrakant (Dada) Patil Revenue Minister, Maharashira State

EXECUTIVE PRESIDENT Prin. Abhaykumar Salunkhe M A

SECRETARY Prin, Mrs. Shubhangi Gavade M. St. B. Ed.

PRINCIPAL Dr. R. R. Kumbhar M. Sc., M. Phil., Ph. D.

Ref. No. DKASC : /380/2019 - 20 20

Date: 29/08/2019

To.

Prof. P. N. Bhosale

Dept. of Chemistry,

Shivaji University, Kolhapur

Sub: Invitation as a Resource person for one day workshop on Revised Syllabus in Chemistry at B.Sc. Part-II (CBCS) Semester- III, DSC-C3 Paper-V, Physical Chemistry.

Respected Sir,

We are pleased to invite you as Resource person for the One-Day Workshop sponsored by Shivaji University, Kolhapur on Revised Syllabus in Chemistry at B.Sc. Part II, Semester -III, DSC-C3 Paper-V, Physical Chemistry on Saturday, 31st August 2019 for faculties of all affiliated colleges of Shivaji University, Kolhapur at DKASC College, Ichalkaranji. The objective of this workshop is to give comprehensive information about revised syllabus of B.Sc. II Physical chemistry and respective practical. We kindly request you to accept our invitation as a resource person.

Looking forward for your positive response.

Thanking You,

Yours faithfully,

(Dr. A. S. Tapase)

Co-Convenor

AAC

(Dr. A. A. Ghare)

Convenor

(Dr. R. R. Kumbhar) D.K.A.S.C. College,

Ichalkaranii.

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EXECUTIVE PRESIDENT Prin, Abhaykumar Salunkhe

SECRETARY Prin, Mrs. Shubbangi Gavade M. Sc. B. Ed.

PRINCIPAL Dr. R. R. Kumbhar M. Sc., M. Phil, Ph. D.

Ref. No. DKASC : 393/20 9 20 20

Date: 30/8

To.

Dr. H. W. Jadhay

Dept. of Chemistry,

Kisanveer Mahavidyalaya, Wai.

Sub: Invitation as a Resource person for one day workshop on Revised Syllabus in Chemistry at B.Sc. Part-II (CBCS) Semester-III, DSC-C3 Paper-V, Physical Chemistry.

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Looking forward for your positive response.

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A Slapan

(Dr. A. S. Tapase)

Co-Convenor

(Dr. A. A. Ghare)

Convenor

(Dr. R. R. Kumbhar) Principal

D.K.A.S.C. College, Ichalkaranji.

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शिक्षण महर्षी हों. बायुजी साळ्खे

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EXECUTIVE PRESIDENT Prin. Abhaykumar Salunkhe M.A.

SECRETARY Prin. Mrs. Shubhangi Gavade M. Sc. B. Ed.

PRINCIPAL Dr. R. R. Kumbhar M. Sc., M. Phil., Ph. D.

Ref. No. DKASC : 39 1/20 /01 20 70

Date: 301 8 120 19

To.

Dr. A. M. Nalawade

Lal Bahadur Shastri College,

Satara

Sub: Invitation as a Resource person for one day workshop on Revised Syllabus in Chemistry at B.Sc. Part-II (CBCS) Semester- III, DSC-C3 Paper-V, Physical Chemistry.

Respected Sir,

We are pleased to invite you as Resource person for the One-Day Workshop sponsored by Shivaji University, Kolhapur on Revised Syllabus in Chemistry at B.Sc. Part II, Semester -III, DSC-C3 Paper-V, Physical Chemistry on Saturday, 31st August 2019 for faculties of all affiliated colleges of Shivaji University, Kolhapur at DKASC College, Ichalkaranji. The objective of this workshop is to give comprehensive information about revised syllabus of B.Sc. II Physical chemistry and respective practical. We kindly request you to accept our invitation as a resource person.

Looking forward for your positive response.

Thanking You,

Yours faithfully,

As lapan

(Dr. A. S. Tapase)

Co-Convenor

(Dr. A. A. Ghare)

Convenor

Pell (Dr. R. R. Kumbhar) Principal D.K.A.S.C. College, Ichalkaranji.



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FOUNDER (Ian Stilkitanmaharah) De Banuti Salunish

Estd.: June 1962

PRESIDENT

Hen, Chandrakant (Dada) Patil

Keyana Misinter, Maharahiya State

EXECUTIVE PRESIDENT

Prin. Abhaykamar Salunkhi
M.A.

SECRETARY
Prin Mr. Shubhangi Gayade
M. Sc. B. Hd.

Dr. R. R. Kumbbut M. Sc., M. Phil., Ph. D.

Rel/ No. DKASC : 696 / 2019 - 20 20

Date: 31 / 08 /2019

Mr. A.A. Pawar

Shikshanmaharshi Dr. Bapuji Salankhe College Miraj

Sub: Invitation as a Chair Person for one day workshop on Revised Syllabus in Chemistry at B.Sc. Part-II (CBCS) Semester-III, DSC-C3 Paper-V, Physical Chemistry.

Respected Sir,

We are pleased to invite you as Chair Person for the One-Day Workshop sponsored by Shivaji University, Kolhapur on Revised Syllabus in Chemistry at B.Sc. Part II, Semester -III, DSC-C3 Paper-V, Physical Chemistry on Saturday, 31" August 2019 for faculties of all affiliated colleges of Shivaji University, Kolhapur at DKASC College, Ichalkaranji. The objective of this workshop is to give comprehensive information about revised syllabus of B.Sc. II Physical chemistry and respective practical We kindly request you to accept our invitation as a Chair Person.

Looking forward for your positive response.

OIC

Thanking You,

Yours faithfully,

AS Topose (Dr. A. S. Tapase)

(Dr. A. A. Ghare)

(Dr. R. R. Kumbhar) चित्रात हिन्दु ए एन् सा द्रानिख, इपसक्तानी

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Index No.: J-23-86-801

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FOUNDER Hon. Shikshanmaharshi Dr. Bapoji Salunkhe

PRESIDENT Hon. Chandrakant (Dada) Patii Revenue Minister, Mahamshtra State

EXECUTIVE PRESIDENT Prin. Abhaykumar Salunkhe M.A.

SECRETARY Prin. Mrs. Shubhangi Govade M. St. B Ed.

PRINCIPAL Dr. R. R. Kumbhar M. Sc., M. Phil., Ph. D.

Ref. No. DKASC :696 / 2019 - 20 10

Date: 31 / 08 /2019

To. Dr. M. S. Pati IT. N. P. College alwa

Sub: Invitation as a Chair Person for one day workshop on Revised Syllabus in Chemistry at B.Sc. Part-II (CBCS) Semester-III, DSC-C3 Paper-V, Physical Chemistry.

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Looking forward for your positive response.

Thanking You,

olc

(Dr. A. S. Tapase)

Co-Convenor

(Dr. A. A. Ghare)

Convenor

Yours faithfully,

Dell (Dr. R. R. Kumbhar)

पाचार्य दताजीगव कदम ए. एस. सी. कॉलेज, इचलकरजी.



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FOUNDER Hon Shikebannuharaki Dr. fixpuji Salunkhe

PRESIDENT Hou. Chandrakam (Dada) Patil Revenue Minister, Maharashiya State

EXECUTIVE PRESIDENT Prin. Abhaykumar Salunkhi MA

SECRETARY Prin. M. Shebhangi Gavadr M. Sc. B. Ed.

PRINCIPAL Dr. R. R. Kumbhar M. Sc., M. Phil., Ph. D.

Ref. No. DKASC -6-96 / 2019 - 20 1-0

Date: 31 / 08 /2019

. R.S. Yalaure Mahavidralara

Sub : Invitation as a Chair Person for one day workshop on Revised Syllabus in Chemistry at B.Sc. Part-II (CBCS) Semester-III, DSC-C3 Paper-V, Physical Chemistry.

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Thanking You.

OLC

(Dr. A. A. Ghare)

Convenor

Yours faithfully,

BULL (Dr. R. R. Kumbhar)

ानेख, इचलकरजी.

(Dr. A. S. Tapase)

Co-Convenor



"जान, विज्ञान आणि सुसंस्कार यासाठी शिक्षण प्रसार"

शिक्षण महर्षी हों. शापुची साम्बं

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

Dattajirao Kadam Arts, Science and Commerce College, Ichalkaranji.

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NAAC - "A" GRADE

POUNDER Hote Shillestermodur-shi Dr. Happii Salmakhe

Estd.: June 1962

PRESIDENT Hou. Chundrakuni (Duda) Patil Revous Misino, Mihasshira State

Prin. Abhaykumar Salunkha M.A.

Prin Mrs. Shubhangi Gavade Mrs. B. B.

Date: 91/08/2019

PRINCIPAL Dr. R. R. Kumbhar M. Sc., M. Phil., Ph. D.

Ref. No. DKASC : 696 / 2019 - 20 20

Mr. M. Cr. Chikhakar Y. C. Warara Mahawayaya Warango agar

Sub: Invitation as a Chair Person for one day workshop on Revised Syllabus in Chemistry at B.Sc. Part-II (CBCS) Semester-III, DSC-C3 Paper-V, Physical Chemistry.

Respected Sir,

We are pleased to invite you as Chair Person for the One-Day Workshop sponsored by Shivaji University, Kolhapur on Revised Syllabus in Chemistry at B.Sc. Part II, Semester -III, DSC-C3 Paper-V, Physical Chemistry on Saturday, 31st August 2019 for faculties of all affiliated colleges of Shivaji University, Kolhapur at DKASC College, Ichalkaranji. The objective of this workshop is to give comprehensive information about revised syllabus of B.Sc. II Physical chemistry and respective practical. We kindly request you to accept our invitation as a Chair Person.

Looking forward for your positive response.

Recieved Thanking You.

(Dr. A. S. Tapase)

Co-Convenor

(Dr. A. A. Ghare) Convenor Yours faithfully,

(Dr. R. R. Kumbhar)

इंग्जिपन नदम ए. एवं मी कॉलेख, इंबसकरजी.

"ब्राज, विद्यान आणि सुञ्जेञ्काञ्च वाञाठी शिक्षणप्रशार" शिक्षण महर्षि डॉ. बायूजी शाखुंखे

Shri. Swami Vivekanand Shikshan Sanstha, Kolhapur's Dattajirao Kadam Arts, Science and Commerce College, Ichalkaranji, Department of Chemistry Organized

One day workshop on

"Revised Syllabus in Chemistry at B.Sc. II (CBCS), Semester- III, Paper V, DSC-C3, Physical Chemistry"

Sponsored By

SHIVAJI UNIVERSITY, KOLHAPUR TECHNICAL PROGRAMME

Date: Saturday, 31st August, 2019.

	Time	Session	Technical Details
١	10:00 to 11:00 a.m.	Registration and Br	reakfast
	11:00 to 11:30 a.m.	Inauguration Function	
		Introduction	Dr. A. A. Ghare Head, Dept. of Chemistry, Dattajirao Kadam Arts, Science and Commerce College, Ichalkaranji.
		A key note address	Distribution of the control of the c
		by Chief Guest	Dr. P. N. Bhosale
			Prof, Dept of Chemistry, Shivaji University, Kolhapur.
		Presidential Address	Dr. R. R. Kumbhar Principal, Dattajirao Kadam Arts, Science and Commerce
Ì	11:30 a.m. to 12:30 p.m.	Session I	College, Ichalkaranji.
į	la de la companya de	Resource Person	Prof. Dr. P. N. Bhosale Dept of Chemistry, Shivaji University, Kolhapur,
	12:30 to 01:30 p.m.	Session II Resource Person	Dr. H. V. Jadhav Asst. Prof. Dept of Chemistry, Kisan Veer Mahavidyalaya.
ł	01:30 to 02:15 p.m.	Lunch Break	Wai, Satara, Maharashtra.
ĺ	02:15 to 03:45 p.m.	Session III	
	The state of the s	Resource Person Session IV Discussion about practical	Dr. A. M. Nalawade Asst. Prof., Dept. of Chemistry, Lal Bahadur Shastri College, Satara.
	03:45 to 4:00 p. m.	Tea Break	
	4:00 p.m. onwards	Valedictory Function and Vote of Thanks	Dr. A. S. Tapase Asst. Prof., Dept. of Chemistry, Dattajirao Kadam Arts, Science and Commerce College, Ichalkaranji.

B.Sc. Part II (CBCS) Sem III

Paper No. DSC- C3 - Chemistry Paper No. V (Physical Chemistry)

(Theory Credits: 02: 30 hours, 38 lectures)

Name of the Topics	Expected Learning Outcome		
1 Electrolytic Conductivity	Learning and understanding conductivity and transport number of the aqueous solutions with different applications.		
2 Physical Properties of Liquids	Knowledge about surface tension, viscosity and refractive index will be gained by the student		
3 Surface Chemistry	Learning and understanding surface phenomena at heterogeneous surfaces		
4 Nuclear Chemistry	Learning the various Nuclear phenomena and measurement of nuclear radiations		
5 Chemical Kinetics	Learning and understanding the knowledge about third order reaction and theories of reaction rates		

Unit- I Electrolytic Conductivity

(16L)

Introduction, Types of conductors, Conductivity, Equivalent and Molar conductivity and their variation with dilution for weak and strong electrolytes in aqueous solution. Equivalent conductivity at infinite dilution, Measurement of conductance by using Wheatstone bridge. Kolharausch law of independent migration of ions and its applications such as Ionic mobility, determination of degree of ionization of weak electrolyte, solubility and solubility products of sparingly soluble salts, ionic product of water, hydrolysis constant of salt. Conductometric titrations (only acid base titrations). Advantages of conductometric titrations.

Transference number, Hittorf's rule, determination of transport number using Moving boundary method, factors affecting transport numbers. Numerical problems.

Unit- II Physical Properties of Liquids

(6L)

Introduction, Classification of physical properties, Surface tension and its determination using Stalagmometeric and differiential capillary rise methods, Viscosity and its determination using Ostwald's viscometer, Refractive index (Snell's law), Specific and Molecular refractivies and its determination using Abbe's refractometer.



Unit - III Surface Chemistry

(7L)

Introduction, Adsorption as a surface phenomenon, Defination of adsorption, adsorbent, adsorbate, absorbent, factors affecting adsorption, Types of adsorption, Distinction between physical and chemical adsorption, Adsorption isotherms: Freundlich adsorption isotherm, Langmuir adsorption isotherm. Types of physical adsorption isotherms, applications of adsorption.

Unit - IV Nuclear Chemistry

(5L)

Introduction, Types of Nuclear radiation, properties of α , β and γ radiations , Detection and measurement of nuclear radiations by Scintillation and Geiger muller counter methods, radioactive equilibrium and range of a- particles, Geiger Nuttal relations ,determination of radioactive constant (decayconstant).

Unit -- V Chemical Kinetics

(4L)

Introduction, Third order reactions: derivation of rate constant, characteristics and examples of third order reaction. Theories of reaction rates as Collision theory and Transition state theory (only quantitative aspect, derivation not expected),

Reference Books:

- 1) Barrow, G.M. Physical Chemistry Tata McGraw-Hill (2007).
- 2) Castellan G.W. Physical Chemistry 4 th Ed. Narosa (2004).
- 3) Kotz, J.C. Treichel, P.M.& Townsend, J.R. General Chemistry, Congage Learning India Pvt Ltd: New Delhi (2009).
- 4) Mahan ,B.H. University Chemistry, 3rd Ed. Narosa (1998).
- 5) Petrucci, R.H. General Chemistry, 5th Ed., Macmillan Publishing Co.; New York (1985).
- 6) Elements of Physical Chemistry S., Glasstone, D. Lewis (2010)
- Principles of physical Chemistry Marron and Prutton. (2007).
- 8) Elements of Physical Chemistry P.W.Atkins (2017)
- 9) Essentials of Physical Chemistry Bahl and Tuli. S. Chand, 2010.
- 10) Physical Chemistry Danials and Alberty (2016)
- 11) University General Chemistry C.N.R.Rao (2016)
- 12) Principals of Physical Chemistry Puri, Sharma and Pathania 47Th Edison, Vishal Publishing Co.Daryaganj Delhi. 110002 (2017)
- 13) Physical Chemistry A.J.Mec.(2015)
- Advanced Physical Chemistry Gurudeep Raj (2017)
- 15) Physical Chemistry R.A.Aleberty (2017-18)
- 16) Petrucci, R.H. General Chemistry 5th Ed. Macmillan Publishing Co.; New York (1985).



Practicals Physical chemistry (Marks 25 + Journal 10)

- To study the hydrolysis of methyl acetate in presence of HCl and H2SO4 and to determine the relative strength of acids.
- To study the effect of acid strength on hydrolysis of an ester by using 0.5M HCl and 0.25M HCl.
- To study the reaction between potassium persulphate and potassium iodide in solution with equal concentration of the reactants.
- 4) To study the reaction between potassium persulphate and potassium iodide in solution with unequal concentration of the reactants.
- To determine the degree of dissociation and dissociation constant of acetic acid at various dilutions and to verify Ostwald's dilution law conductmetrically.
- To determine the normality of the given strong acid by titrating it against the strong alkali conductometrically.
- To determine the normality of the given weak acid by titrating it against the strong alkali conductometrically.
- To determine the percentage composition of a given liquid mixture by viscosity method (Density data to be given).
- 9) To determine the specific and molar refractions of benzene, toluene and xylene by Abbe's Refractometer and to determine the refraction of CH₂ Group (Methylene group) (Densities should be determined by students).
- 10) To determine the specific rotation and unknown concentration of sugar solution.

Reference Books : -

- 1) Mendham, J. Vogel's Quantitative Chemical Analysis, Pearson 2009.
- Khosla, B.D.; Garg, V.C. & Gulati, A. Senior Practical Physical Chemistry, R. Chand & Co. New Delhi (2011).
- 3) Findlay Practical Physical Chemistry (Longmann) 2015,
- Practical Physical Chemistry: Gurtu (S. Chand) 2014.
- 5) Systematic Experimental Physical Chemistry: Rajbhoj, Chandekar (Anajali Publication) 2016.
- Advanced Practical Physical Chemistry: J.B.Yadav (Goel Publishing House) 2015.





One day Workshop on "Revised syllabus in chemishy at 8.50. II (Physical chemish paper Y. DSC-C3."



Dr. R.R. Kumbhar. *

by Hon Prine



* Inauguration Function

HEAD,
Department of Chemistry,
Dattajirao Kedam Arts, Science
& Commerce College,
iCriALiv. RANJI.



- Prof. Dr. P. N. Bhosole *

of B.Sc. II, paper I. DSC- 18".

Workshop on Revised syllabus in Physical Chemistry Date: 31/08/2019



* Felicitation of Resource Person
Dr. H.V. Jadhav by Dr. A.S. Tapase



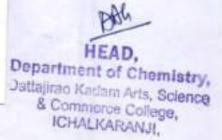


Department of Chemistry, Dattajirao Maria Arta, Science Workshop on Revised syllabus in Physical Chemistry





- Resource Person:-Dr. A.N. Nalawade



Veledictory function



SR. Name or Faculty College Name. Designation 1. Arvind Aba pawar. S.M.D. B.S. college Assistant Miraj. professor. 2. Appasameb T. Berapar — 1. 3. Rule virek Tanaji yymp. pethoadgaop Ass. pea. as c. H.B 4. Dr. Vishalkumar R. More The New College, Kop. Assr. Rof. 5. Mr. Piniarkar Arael Digambar Tirangi 6. Mr. Mane chundralund Bulu. VYN.P. Pethyadgaen. 7. Dy. Nikaw N.D. D.P. Bhowle charge Foregaon 2. Ex Path P.S. 9. Dr. A.M. Hasure. Shivraj College Godhinglay 10. Misc. S. M. Waghmare. S. R. R. P. Mahavidyalar Assistant prof. 11. Mr. D. P. Hirwale. 12. Mess A.S. probhavaliar shahu college walharu. Assistant prof. 13. Mr. S.I. Mujowar. R. Shahu college. Assistant prof. 14. Mr. K.V. Bhosale Mahila Mahavidya Assistant prof. 15. Br. U.N. pol. Willingdone college. Assistant prof. 16. Miss. S. C. pattl. Mahila Mahavidya Assistant prof. 18. Miss. S. C. pattl. Mahila Mahavidya Assistant prof. 19. Chougale M. II. Jaysingawa College. Jaysingawa Col		of the mistry organi Date: 31/08/2019 challerand but Organised one day workshop on Revised sulfating In Chemistry at B Sc II (CBCS), Semester III Paper II Physical Chemistry				
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5 Mr. Piniarker Amal Digambay Mitshinde Mahasidalay Art prof. 6. Mr. Mane chandrahunt Bulu. VM.P. Pethyrudgeren. 7. Dr. Nikaw N.D. D.P. Bhowle change foregaon 2. Dr. A.M. Hasure Shivraj College Gadhinglary Associate of Godhinglary Assistant prof. 10. Misc S. M. waghmore S. R. R. P. Mahavidgalov Assistant prof. 11. Mr. D. P. Hirwale. V.N. A.C. B. N.S. Assistant prof. 12. Misc A.S. prabhavalitar shahu college walhapur Assistant prof. 13. Mr. S. I. Mujowar. A.C. Shahu college. Assistant prof. Kolhapur. 14. Mr. K.V. Bhosale Mahila Mahavidya Assistant prof. 15. Br. U.N. pol. Willingdone college. Assistant prof. 16. Miss S. C. patil Mahila Mahavidya Assistant prof. 17. Miss. S. B. patil Jaysingpur college. 18. Miss. K. I. Awadi III. 19. Chougule M. II.	3.	Exile virek Tanaji	yymp. petwadgaon	Ass. Dea. a.s C.H.B		
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Prin. Mrs. Shubhangi Gavade

PRINCIPAL Dr. R. R. Kumbhar

M. Sc. B. Ed.

M. Sc., M. Phil., Ph. D.

Ref. No. DKASC : /ad

Date: Q \ /

Letter of Appreciation

To.

Dr. A. M. Nalawade

Department of Chemistry,

Lal Bahadur Shastri College,

Satara.

Respected Sir.

On behalf of D.K.A.S.C. College, we are very much thankful to you for accepting our invitation and delivering a valuable lecture for faculties of affiliated colleges of Shivaji University in One day workshop on Revised Syllabus in Chemistry at B.Sc. II (CBCS), Semester- III, Paper V, DSC-C3, Physical Chemistry" organized by Department of Chemistry, D.K.A.S.C. College, Ichalkaranji and Sponsored By Shivaji University, Kolhapur on Saturday, 31st August 2019.

Thank you for your valuable guidance. Your speech has encouraged the faculties to keep sound and enthusiastic mind for teaching revised syllabus of B. Sc. II.

Thanking you,

(Dr. A. S. Tapase)

Co-Convener

(Dr. A. A. Ghare)

Convener

Yours Sincerely,

(Dr. R. R. Kumbhar)

प्राच्याचा दत्ताजीराव कदब ए. एस. सी. कॉलेज, इबलकरंजी.



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PRINCIPAL M. Sc., M. Phil., Ph. D.

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Date: Q1 / 08 /2019

Letter of Appreciation

To.

Dr. H. V. Jadhav Department of Chemistry, Kisan Veer Mahavidyalaya, Wai, Satara.

Respected Sir.

On behalf of D.K.A.S.C. College, we are very much thankful to you for accepting our invitation and delivering a valuable lecture for faculties of affiliated colleges of Shivaji University in One day workshop on Revised Syllabus in Chemistry at B.Sc. II (CBCS), Semester- III, Paper V, DSC-C3, Physical Chemistry" organized by Department of Chemistry, D.K.A.S.C. College, Ichalkaranji and Sponsored By Shivaji University, Kelhapur on Saturday, 31st August 2019.

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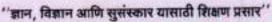
Yours Sincerely,

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(Dr. R. R. Kumbhar)

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PRINCIPAL Dr. R. R. Kumbhar M. Sc., M. Phil., Ph. D.

Ref. No. DKASC 405/2019-2020

Date: 31 /08 /2019

Letter of Appreciation

To.

Prof. Dr. P. N. Bhosale

Department of Chemistry,

Shivaji University,

Kolhapur.

Respected Sir.

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Thanking you,

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Yours Sincerely,

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(Dr. A. S. Tapase)

ABG (Dr. A. A. Ghare)

(Dr. R. R. Kumbhar)

Co-Convener

Convener

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Date: 3 / 0- /2019

Letter of Appreciation

To

Mr. A. A. Pawar Shiksham makarshi Dr. Bapaji saluntche College Mira

Respected Sir.

On behalf of D.K.A.S.C. College, we are very much thankful to you for accepting our invitation as a chair person in One day workshop on Revised Syllabus in Chemistry at B.Sc. II (CBCS), Semester- III, Paper V, DSC-C3, Physical Chemistry" organized by Department of Chemistry, D.K.A.S.C. College, Ichalkaranji and Sponsored By Shivaji University, Kolhapur on Saturday, 31st August 2019.

Thanking you,

As lapan

(Dr. A. S. Tapase)

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(Dr. A. A. Ghare)

Co-Convener

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Convener

Yours Sincerely,

(Dr. R. R. Kumbhar)

धायात दत जीवार कदक ए. एक. सी. कॉलेज, इपलकरंजी,



"ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षण प्रसार"

- शिक्षण महबी हाँ, वापूजी सार्कुखे

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

Dattajirao Kadam Arts, Science and Commerce College, Ichalkaranji.

Tal. Hatkanangale, Dist. Kolhapur - 416 115 Phone: (0230) 2420412, Fax /Phone - (0230) 2424555 Index No.: J-23-86-001

Vacuus

NAAC - "A" GRADE

Estd.: June 1962

(Affiliated to Shivaji University, Kolhapur - No. Affi./T-2/5049 dt. 10-7-1999)

FOUNDER Hon. Shikshanmaharshi Dr. Bapuji Sulunkhe PRESIDENT Hon. Chandrakant (Dada) Patil Revince Minister, Maharahira State Prin. Abhaykumar Salunkhe

SECRETARY Prin. Mrs. Shubhangi Gavade M. Sc. B. Ed. PRINCIPAL Dr. R. R. Kumbhar M. Sc., M. Phil., Ph. D.

Ref. No. DKASC :396/2019 - 2040

Date :31 / 08 / 20/ 9

Letter of Appreciation

To.

K.N. P. College, Walwa

Respected Sir,

On behalf of D.K.A.S.C. College, we are very much thankful to you for accepting our invitation as a chair person in One day workshop on Revised Syllabus in Chemistry at B.Sc. II (CBCS), Semester- III, Paper V, DSC-C3, Physical Chemistry" organized by Department of Chemistry, D.K.A.S.C. College, Ichalkaranji and Sponsored By Shivaji University, Kolhapur on Saturday, 31st August 2019.

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(Dr. A. S. Tapase)

Co-Convener

AAC

(Dr. A. A. Ghare)

Convener

Yours Sincerely.

(Dr. R. R. Kumbhar)

माचार्व इताजीराव सदम् ए. एत. सी. कॉनेज, इवतकरंजी.



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Index No.: J-23-06-001

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(Affiliated to Shivaji University, Kolhapur - No. Affi./T-2/5049 dt. 10-7-1999) E-mail: dkasccollege@gmail.com, ich38.cl@unishivaji.ac.in
 Website: www.dkasc.ac.in

FOUNDER

Hon. Shikrhanmaharshi

Dr. Bapuji Salunkhe

Estd.: June 1962

Hon. Chandrakant (Dada) Patil Revenue Minister, Maharashtra State

EXECUTIVE PRESIDENT Prin. Abhaykumar Salunkhe M.A.

SECRETARY Prin. Mrs. Shubhangi Gavade M. Sc. B. Ed.

PRINCIPAL Dr. R. R. Kumbhar M. Sc., M. Phil., Ph. D.

Ref. No. DKASC 400 / 2019 - 2090

Date: 31 /06 /2019

Letter of Appreciation

To.

Dr. R.S. Yalqudre Mirai Mahaeidyalaya

Respected Sir,

On behalf of D.K.A.S.C. College, we are very much thankful to you for accepting our invitation as a chair person in One day workshop on Revised Syllabus in Chemistry at B.Sc. II (CBCS), Semester- III, Paper V, DSC-C3, Physical Chemistry" organized by Department of Chemistry, D.K.A.S.C. College, Ichalkaranji and Sponsored By Shivaji University, Kolhapur on Saturday, 31st August 2019.

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(Dr. A. S. Tapase)

Co-Convener

ABG

(Dr. A. A. Ghare)

Convener

Yours Sincerely,

Rece

(Dr. R. R. Kumbhar)

वाद्यार दताजीशब कदकए, एक सी. कॉलेज, इचलकरंजी.



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Estd.: June 1962

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Index No.: J-23-06-001

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■ E-mail : dkasccollege@gmail.com, ich38.cl@unishivaji.ac.in ■ Website : www.dkasc.ac.in

FOUNDER Hon Shiksboomsharshi Dr. Hopogi Salonkhe

Revenue Minister, Maharashtra Stata

PRESIDENT Hon. Chandrakant (Duda) Patil

EXECUTIVE PRESIDENT Prin. Abhaykumar Sahankhe MA

SECRETARY Prin. Mrs. Shubhaugi Gayade M. Sc. D. Ed.

Dr. R. R. Kumbhar M. Sc., M. Phil., Ph. D.

Ref. No. DKASC - 18 (2019 - 2079

Date: 31 /06 /2019

Letter of Appreciation

To:

Mr. M.G. Chikalkar Y. C. Warana Mahahdyalaya Marananagay

Respected Sir,

On behalf of D.K.A.S.C. College, we are very much thankful to you for accepting our invitation as a chair person in One day workshop on Revised Syllabus in Chemistry at B.Sc. II (CBCS), Semester- III, Paper V, DSC-C3, Physical Chemistry" organized by Department of Chemistry, D.K.A.S.C. College, Ichalkaranji and Sponsored By Shivaji University, Kolhapur on Saturday, 31st August 2019.

Thanking you,

AS OPEN (Dr. A. S. Tapase)

Co+Convener

NAGE

(Dr. A. A. Ghare)

Convener

Yours Sincerely,

W. CEL

(Dr. R. R. Kumbhar)

प्राचारा

दता जीशक कदक-ए. एक. सी. कॉलेज, इपेलकरंजी.



Estd.: June 1962

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Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

Dattajirao Kadam Arts, Science and Commerce College, Ichalkaranji.

Tal. Hatkanangale, Dist. Kolhapur - 416 115 Phone: (0230) 2420412, Fax /Phone - (0230) 2424555

Index No.: J-23-06-601

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• E-mail : dkasecollege@gmail.com, ich38.cl@unishivaji.ac.in • Website : www.dkasc.ac.in

Workshop on Revised syllabus in Physical Chemistry Date: 31/08/2019

A Report on One Day Workshop on

"Revised Syllabus in Chemistry at B.Sc. II, Semester III, DSC-C3, Paper V Physical Chemistry"

Date

: Saturday31st August, 2019

Time

: 11.00 am to 05:00 pm

Venue

: College Auditorium

Reference

- Shivaji University, Kolhapur Letter No. SU / SEMINAR /No. 293 dated 22nd April, 2019
 - Shivaji University, Kolhapur Letter No. SU / SEMINAR /No. 8365 dated 03rd August, 2019

Introduction:

As the New Revised syllabus (CBCS Pattern) is introduced by Shivaji University, Kolhapur for B.Sc.II from academic year 2019-2020, there was need to orient faculties in their respective subject, syllabus content and revised paper pattern. In this regard to give comprehensive information about revised syllabus, Shivaji University, Kolhapur sponsored one day workshop on "Revised syllabus in chemistry at B.Sc. II, Semester III, DSC-C3, Paper V Physical Chemistry" was successfully organized by Department of Chemistry, DKASC College, Ichalkaranji. Ninety four chemistry teachers from different colleges affiliated to Shivaji University were participated in this workshop.

Detailed Report:

1) Inauguration Session:

Auspicious Presence : Hon. Prin. Dr. R. R. Kumbhar Principal,

Dattajirao Kadam Arts, Science and Commerce College, Ichalkaranji.

Guest of Honours: Hon. Prof. (Dr.) P. N. Bhosale Department of Chemistry, Shivaji University, Kolhapur



Workshop on Revised syllabus in Physical Chemistry

Resource Persons: Date: 31/08/2019

i) Prof. (Dr.) P. N. Bhosale.

UGC-BSR Faculty, Department of Chemistry, Shivaji University, Kolhapur

ii) Dr. H. V. Jadhav

Associate Professor, Department of Chemistry, Kisan Veer Mahavidyalaya, Wai.

iii) Dr. A. M. Nalawade

Member, Board of Studies (Chemistry) Shivaji University, Kolhapur Assistant Professor, Lal Bahadur Shastri College, Satara.

Inauguration:

Inauguration of one day workshop was started at 11.00 am with welcoming the guests and kindling of lamps and image worship. Hon. Prin. Dr. R. R. Kumbhar and all the dignitaries honored the occasion of kindling of lamps & image worship. It was followed by our sanstha prayer sung by students. Following eminent personality graced the occasion.

- Dr. A. A. Ghare addressed welcome note and explained the objectives and importance of conducting workshop on revised syllabus.
- All the guests were welcomed and felicitated by offering a sapling as token of love.
- Prin. Dr. R. R. Kumbhar in his presidential address explained the process of syllabus revision and the types of changes made in revised syllabus.
- Prof. Dr. P. N.Bhosale stated the importance of syllabus revision and how it is beneficial for the students for their future.
- This inauguration session ended with vote of thanks by Dr. A. S. Tapase.



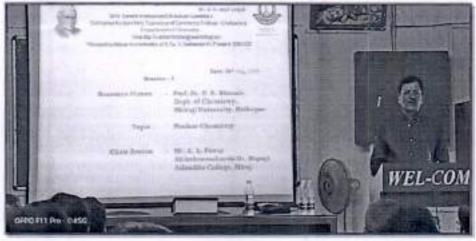




2) Technical Sessions:

❖ Technical Session – I:

- Technical session I began with the introduction of the resource person Prof. Dr. P. N. Bhosale by chair person of this session.
- ➤ The chair person of this session was Prof. A. A. Pawar, from S.M.D.B.S. College, Miraj.
- Prof. Dr. P. N. Bhosale introduced about revised syllabus of paper V Physical chemistry. He explained in detail the contents of 'Unit IV Nuclear Chemistry' and gave the advanced knowledge about nuclear chemistry.
- After the lecture, discussion was done about queries and doubts raised when teaching the nuclear chemistry unit. Prof. Dr. P. N. Bhosale Sir guided to participant teachers about this in lucid manner.
- This technical session ended with vote of thanks by Dr. A. A. Ghare.







❖ Technical Session – II:

- After the lunch break, second session began with the introduction of resource person Dr. H. V. Jadhav, Kisan Veer College, Wai.
- > The chair person of this session was Dr. N. S. Patil, K.N.P. College, Walwa.
- Dr. A. S. Tapase felicitated resource person Dr. H. V. Jadhav was by offering plant.
- At Dr. H. V. Jadhav, a experienced teacher, explained the contents of 'Unit No. I Electrolytic Conductivity' in simple language. In open discussion, he cleared all doubts regarding this unit and guided the participant teachers.
- > This technical session ended with vote of thanks by Mrs. S. A. Mattiwad.





* Technical Session - III:

- Third session started with the introduction of resource person Dr. A. M. Nalawade by chair person of this session.
- The chair person of this session was Dr. R. S. Yalgudre, BOS member SUK, Asso. Prof. Miraj Mahavidyalaya, Miraj
- Dr. A. M. Nalawade, BOS member SUK, had explained contents of the 'Unit No.III Surface Chemistry' using power point presentation. His lecture was an example of best teaching by use of ICT.
- Then resource person Dr. A. M. Nalawade explained contents of the 'Unit No. II Physical Properties of Liquids' and 'Unit No.V Chemical Kinetics'. On interaction with him the knowledge and experience was shared with participants, specially the teachers who have just entered in teaching field.
- This technical session ended with vote of thanks by Mr. S. R. More.







❖ Technical Session – IV :

Discussion about Practicals

- This session was an open discussion about practical course in Chemistry among the resource persons and all participants. Resource persons Dr. A. M. Nalawade, Dr. H. V. Jadhav, Dr. R. S. Yalgudre, BOS member SUK, Prof. M.G. Chikhalkar, Y.C. Warana Mahavidyala and others guided the participants and solved the queries and explained how to overcome the difficulties faced while performing practicals.
- Participants were satisfied on receiving the solutions to their problems.
- > This technical session ended with vote of thanks by Dr. A. A. Ghare.

3) Valedictory Session:

- Valedictory session started at 4.30 pm. Prin. Dr. R. R. Kumbhar as a president and Prof. M. G. Chikhalkar was a chief guest for this session.
- The certificates were distributed to participants by the auspicious hands of Prin. Dr. R. R. Kumbhar and Prof. M. G. Chikhalkar.
- Valedictory session ended with vote of thanks by Dr. A. S. Tapase.







In this workshop, we have provided all the essential study materials, reference materials and notes to all participants as well as these above said material was made available on our college Google drive.

As apare

(Dr. A. S. Tapasc) Co-coordinator (Dr. A. A. Ghare) Co-ordinator

Department of Chemistry, Distance Links Arts, Science & Car serve College PUBLISHED LANDS (Dr. R. R. Kumbhar)

D.K.A.S.C. College. Ichalkaranji.



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- शिक्षणमहर्षी डाँ. वापूजी साळुंखे

Shri Swami Vivekanand Shikshan Sanstha Kolhapur's
Dattajirao Kadam Arts, Science and Commerce College, Ichalkaranji
Department of Chemistry



Signature

One day workshop on "Revised syllabus in chemistry at B.Sc. II, Semester III, DSC-C3

Paper V, Physical Chemistry"

		urday, 31 st Augast,		
	© F	eed-back for		
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⇒ Name of the	e College: Rajan	m college,	Kolhapus	
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" ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षण प्रसार "

- शिक्षणमहर्षी डॉ. बापूजी साळुंखे

Shri Swami Vivekanand Shikshan Sanstha Kolhapur's Dattajirao Kadam Arts, Science and Commerce College, Ichalkaranji Department of Chemistry

्रां इसलकरंजी

One day workshop on
"Revised syllabus in chemistry at B.Sc. II, Semester III, DSC-C3
Paper V, Physical Chemistry"

(Saturday, 31st Augast, 2019) Shalgarskav Name of the Faculty: Name of the College: Sut. K. R. P. Kanya Mahavidyaloga Islampur Given the topics for this Workshop? d) Other c) Too Long a) Too Short k) Right Length Did it help to enhance your knowledge? c) No a) Yes very much b) Yes 3) Resource Persons? d) Fair c) Good b) Very Good a) Excellent 4) Quality of Presentations? b) Very Good d) Fair c) Good a) Excellent 5) Workshop Contents? d) Fair c) Good a) Excellent b) Very Good 6) Hospitality? d) Fair c) Good b) Very Good a) Excellent) Overall Workshop? d) Fair c) Good b) Very Good a) Excellent 8) What are the strengths of workshop? Resources Person was amazing. positive. An awesome work content was The All very e Dell presented. 9) What did you most appreciate / enjoy / think was best about the workshop? a lot in a comfortable learned Totally Norkshop is excellent - tearned a great ideal to lease more. How could the workshop be improved? 10)

Signature