



Estd: 1962
NAAC 'A' Grade

SHIVAJI UNIVERSITY, KOLHAPUR - 416 004

Phone : EPABX - 2609000 Seminar - 2609141

Fax : +91-231-2691533, 2693294 & 2692333 Website : www.unishivaji.ac.in

शिवाजी विद्यापीठ, कोल्हापूर ४१६ ००४

फोन : इपीबीएक्स - २६०९००० सेमिनार २६०९१४१

फॅक्स : +91-231-2691533, 2693294 & 2692333 email : pgreen@unishivaji.ac.in

जा क्र.: शिवाजी वि / सेमिनार /

दि - 3 AUG 2019

प्रति,

The Principal,

Dattajirao Kadam Arts, Science & Commerce College,
Ichalkaranji, Dist. Kolhapur

विषय:- नवीन बदललेल्या अभ्यासक्रमासंदर्भात संलग्न महाविद्यालयीन शिक्षकांना प्रशिक्षण कार्यशाळा / शिबीर आयोजित करण्याच्या मान्यतेबाबत.

संदर्भ :- इच्छील कार्यालयीन जा. क्र. 293 दि. 22/04/2019 चे परिपत्रक.

महोदय / महोदया,

उपरोक्त विषयसंदर्भाकित परिपत्रकानुसार वार्षिक वर्ष 2019-20 मध्ये नवीन बदललेल्या अभ्यासक्रमासंदर्भात आपणास आदेशान्वये कळविण्यात येते की B.Sc II Sem III Physical Chemistry and Industrial Chemistry या नवीन बदललेल्या अभ्यासक्रमासंदर्भात आपण सादर केलेला प्रस्ताव समितीने मान्य केलेला असून यासाठी रु. 18,000/- इतके आर्थिक सहाय्य मंजूर केलेले असून सदर रकमेच्या 80% रकम रु. 14,400/- ही तत्सलमात (अॅडव्हान्स) म्हणून महाविद्यालयास स्वतंत्रपणे पाठवून देत आहेत.

प्रस्ताविक कार्यशाळा / शिबीराच्या आयोजनाची कार्यवाही त्वरित करावी. तसेच कार्यशाळा / शिबीर संपादित 05 दिवसांच्या आत संबंधित संयोजकांनी (पदव्युत्तर विभागप्रमुखानी / प्राचार्यांनी) कार्यशाळा / शिबीराच्या खर्चाचा संपूर्ण हिशोब व मूळ बीले महाविद्यालयाने आपल्याकडे ठेवावीत आणि फक्त विहित नमुन्यांमधील चार्टर्ड अकॉन्टंट यानी प्रमाणित केलेले उपयोगिता प्रमाणपत्र (Utilization Certificate) विद्यापीठ कार्यालयास पाठवून द्यावे. (तथापि कार्यशाळा / शिबीर खर्चाचा संपूर्ण हिशोब व मूळ बीले विद्यापीठ कार्यालयाच्या मागणीनुसार उपलब्ध करून देणे आयोजक महाविद्यालयास बंधनकारक राहील.) तसेच उपयोगिता प्रमाणपत्रासोबत कार्यशाळा / शिबीराचा सविस्तर अहवाल, उपस्थित असणा-या शिक्षकांच्या नावाची यादी इ. कागदपत्रे विद्यापीठास सादर करावीत. (समितीने आपल्या महाविद्यालयास मान्य केलेल्या प्रस्तावाची माहिती विद्यापीठाच्या www.unishivaji.ac.in → Circular → Affiliation → Seminar Section या संकेतस्थळावर ठेवण्यात आलेली आहे.)

आपला विश्वासू

[Signature]
उपकुलसचिव

प्रति माहितीसाठी :- लेखा / जनरल व वर्या विभागास

सदर 30% तत्सलमात रक्कम संबंधित महाविद्यालयास अदा करावी व सदरचा खर्च हा अंदाजपत्रकीय तरतुद A.2 P.21 मधून खर्ची टाकावा लागणार आहे.

PDF SIGNER DEMO VERSION

Intended for

Date :-

14/8/2019



“ज्ञान, विज्ञान आणि युगंकार यांसाठी शिक्षणप्रसार”

शिक्षणमहर्षी डॉ. बापूजीसाहेबराव.

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,

ADG

(Dr. A. A. Ghare)

HEAD,

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

Allowed
P2
19.8.19



“ज्ञान, विज्ञान आणि सुसंस्कार यासाठी शिक्षण प्रसार”

- शिक्षण महर्षी डॉ. बापूजी साळुंखे

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

Dattajirao Kadam Arts, Science and Commerce College, Ichalkaranji.



Estd.: June 1962

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

Index No. : J-23-06-001

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

NAAC - "A" GRADE

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

FOUNDER	PRESIDENT	EXECUTIVE PRESIDENT	SECRETARY	PRINCIPAL
Hon. Shikshanmaharshi Dr. Bapuji Salunkhe	Hon. Chandrakant (Dada) Patil Revenue Minister, Maharashtra State	Prin. Abhaykumar Salunkhe M. A.	Prin. Mrs. Shubhangi Gavade M. Sc. B. Ed.	Dr. R. R. Kumbhar M. Sc., M. Phil., Ph. D.

Ref. No. DKASC: 365720/8/2019

Date: 27/8/2019

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.

AAG

Dr. A. A. Ghare

Convenor

AS Tapase

Dr. A. S. Tapase

Co-convenor

RRK

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

‘‘ज्ञान, विज्ञान आणि सुसंस्कार यासाठी शिक्षण प्रसार’’

– शिक्षण महर्षी डॉ. बापूजी साळुंखे

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

**Dattajirao Kadam Arts, Science and Commerce
College, Ichalkaranji.**

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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 : 380/2019 - 2020

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,

As. Tapase

(Dr. A. S. Tapase)
Co-Convenor

ABC

(Dr. A. A. Ghare)
Convenor

RRK

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



‘ज्ञान, विज्ञान आणि सुसंस्कार यासाठी शिक्षण प्रसार’

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Ref. No. DKASC : 393/2019/2020

Date : 30/8/2019

To,

Dr. H. V. Jadhav

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.

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,

A. S. Tapase

(Dr. A. S. Tapase)

Co-Convenor

A. A. Ghare

(Dr. A. A. Ghare)

Convenor

R. R. Kumbhar

(Dr. R. R. Kumbhar)

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

“ज्ञान, विज्ञान आणि सुसंस्कार यासाठी शिक्षण प्रसार”

— शिक्षण महर्षी डॉ. बापूजी साळुंखे

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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 : 391/2019/2020

Date : 30/8/2019

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 Tapar

(Dr. A. S. Tapase)

Co-Convenor

AA Ghare

(Dr. A. A. Ghare)

Convenor

RR Kumbhar

(Dr. R. R. Kumbhar)

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

"ज्ञान, विज्ञान आणि सुशिक्षण यासाठी शिक्षण प्रसार"

- शिक्षण महर्षी डॉ. बापूजी सावंत

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

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College, Ichalkaranji.**

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Revenue Minister, Maharashtra State

EXECUTIVE PRESIDENT
Prin. Abhaykumar Salunkhe
M.A.

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

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

Ref. No. DKASC: 696/2019-2020

Date: 31/08/2019

To,

Mr. A.A. Pawar

Shikshanmaharshi Dr. Bapuji Salunkhe 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, 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.

Thanking You,

Yours faithfully,

As Tapase

(Dr. A. S. Tapase)

Co-Convenor

AMG

(Dr. A. A. Ghare)

Convenor

pu

(Dr. R. R. Kumbhar)

प्रमुख, इचलकरंजी,
दत्ताजीराव कदम ए. आर. सी.
कॉलेज, इचलकरंजी.



“ज्ञान, विज्ञान आणि सुसंस्कार यासाठी शिक्षण प्रसार”

– शिक्षण महर्षी डॉ. बापूजी साळुंखे

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Ref. No. DKASC : 396 / 2019 - 20 20

Date : 31 / 08 / 2019

To,

Dr. N. S. Patil
K. N. P. College
Walwa.

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.

Thanking You,

Yours faithfully,

As Tapase

(Dr. A. S. Tapase)

Co-Convenor

At Ghare

(Dr. A. A. Ghare)

Convenor

R. R. Kumbhar

(Dr. R. R. Kumbhar)

प्राचार्य

दत्ताजीराव कदम ए. एन. सी.
कॉलेज, इचलकरंजी.

o/c
Received

"ज्ञान, विज्ञान आणि सुसंस्कार वास्तवी शिक्षण प्रसार"

- शिक्षण महर्षी डॉ. बापूजी साहूखे

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

**Dattajirao Kadam Arts, Science and Commerce
College, Ichalkaranji.**

Tal. Hatkanangale, Dist. Kolhapur - 416 115

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Index No. : J-23-05-001

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M.A.

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

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

Ref. No. DKASC-696/2019-2020

Date: 31/08/2019

To,
Dr. R. S. Yalgare
Miraj Mahavidyalaya
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,

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faculties of all affiliated colleges of Shivaji University, Kolhapur at DKASC College,
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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.

Thanking You.

olc

Yours faithfully,

AS Tapase
(Dr. A. S. Tapase)
Co-Convenor

AM
(Dr. A. A. Ghare)
Convenor

RR
(Dr. R. R. Kumbhar)
Principal
इ. आ. वि. क. क. ए. ए. सी.
इचलकरजी.



"ज्ञान, विज्ञान आणि सुसंस्कार यासाठी शिक्षण प्रसार"

शिक्षण माहर्षी डॉ. बापूजी साहबराव

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

Dattajirao Kadam Arts, Science and Commerce College, Ichalkaranji.



Estd.: June 1962

Tal. Hatkanangale, Dist. Kolhapur - 416 115

Phone : (0230) 2420412, Fax /Phone - (0230) 2424555

Index No. : J-23-06-001

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

NAAC - "A" GRADE

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

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Ref. No. DKASC/696/2019-2020

Date: 31/08/2019

To,

Mr. M. G. Chikhakar

Y.C. Waraxa Mahavidyalaya

Warananagar

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.

Thanking You,

Yours faithfully,

o/c
Received
14

As Tapase

(Dr. A. S. Tapase)

Co-Convenor

As

(Dr. A. A. Ghare)

Convenor

As

(Dr. R. R. Kumbhar)

Principal

दत्तात्रय कदम ए. एच. सी.
कोल्हापूर, इचलकरंजी.

“ज्ञान, विज्ञान आणि सुसंस्कार वासाठी शिक्षणप्रसार”

शिक्षण महर्षि डॉ. बापूजी साखुंबे

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
10:00 to 11:00 a.m.	Registration and Breakfast	
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 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 College, Ichalkaranji.
11:30 a.m. to 12:30 p.m.	Session I 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, Wai, Satara, Maharashtra.
01:30 to 02:15 p.m.	Lunch Break	
02:15 to 03:45 p.m.	Session III Resource Person	Dr. A. M. Nalawade Asst. Prof., Dept. of Chemistry, Lal Bahadur Shastri College, Satara.
	Session IV Discussion about practical	
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. Kohlrausch 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 Stalagmometric and differential capillary rise methods, Viscosity and its determination using Ostwald's viscometer, Refractive index (Snell's law), Specific and Molecular refractivities and its determination using Abbe's refractometer.



(7L)

Unit – III Surface Chemistry

Introduction, Adsorption as a surface phenomenon, Definition of adsorption, adsorbent, adsorbate, adsorbent, 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.

(5L)

Unit – IV Nuclear Chemistry

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 α - particles, Geiger Nuttal relations, determination of radioactive constant (decay constant).

(4L)

Unit – V Chemical Kinetics

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, Cengage 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)
- 7) 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. Mee. (2015)
- 14) 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)

- 1) To study the hydrolysis of methyl acetate in presence of HCl and H₂SO₄ and to determine the relative strength of acids.
- 2) To study the effect of acid strength on hydrolysis of an ester by using 0.5M HCl and 0.25M HCl.
- 3) 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.
- 5) To determine the degree of dissociation and dissociation constant of acetic acid at various dilutions and to verify Ostwald's dilution law conductometrically.
- 6) To determine the normality of the given strong acid by titrating it against the strong alkali conductometrically.
- 7) To determine the normality of the given weak acid by titrating it against the strong alkali conductometrically.
- 8) 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.
- 2) 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.
- 4) Practical Physical Chemistry: Gurtu (S. Chand) 2014.
- 5) Systematic Experimental Physical Chemistry: Rajbhoj, Chandekar (Anajali Publication) 2016.
- 6) Advanced Practical Physical Chemistry: J.B. Yadav (Goel Publishing House) 2015.





* One day Workshop on "Revised syllabus in chemistry at B.Sc. II (Physical chemistry) paper V, DSC-C3."



AAE

HEAD,

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

* Wel come OF Chief Guest by Hon. Prins
Dr. R.R. Kumbhar. *



* Inauguration Function of Workshop *



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



* Chief Guest and Resource Person
- Prof. Dr. P. N. Bhosale *

* One day workshop on "Revised Syllabus of B.Sc. II, paper V, Dsc-13".



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



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



- Resource Person :-

• Dr. A.N. Nalawade

Dr. A.N.

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

• Valedictory function •



Shivaji University Kolhapur sponsored and Department of Chemistry Organised one day workshop on Revised syllabus in Chemistry at B.Sc II (CBCS), Semester III Paper II Physical Chemistry

SR. NO.	Name of Faculty	College Name	Designation
1.	Arvind Aba pawar.	S.M.D.B.S. college Miraj.	Assistant professor.
2.	APPASAMEB T. BIRAJPAR	—	—
3.	Rohit virek Tanuji	VYMP. pethwadgaon	Ass. prof. as C.H.B
4.	Dr. Vishalkumar R. More	The New College, Kop.	Asst. Prof.
5.	Mr. Piniarkar Amal Digambar	M.H. Shinde Mahavidyalaya Tirangi	Asst. prof.
6.	MR. Mane chandrakant Balu.	V.M.P. pethwadgaon.	"
7.	DR. Nikam N.D.	D.P. Bhosale college Koregaon	—
8.	Dr. Pahl P.J.	—	—
9.	Dr. A.M. Hasure.	Shivraj College Gadhinglaj	Associate prof
10.	Miss S. M. Waghmare.	S.R.R.P. Mahavidyalaya	Assistant prof
11.	Mr. D. P. Hirwale.	V.N.A.C & B.N.S. college.	Assistant prof
12.	Miss A.S. prabhavaliwar.	Shahu college Kolhapur	Assistant prof
13.	Mr. S.I. Mujawar.	A.C. Shahu college Kolhapur.	Assistant prof
14.	Mr. K.V. Bhosale	Mahila Mahavidya	Asst. prof.
15.	Dr. U.N. pol.	Willingdone college	Assistant prof
16.	Miss. S.C. Pahl	Mahila Mahavidyalaya Kaseba Bred	Assistant prof
17.	Miss. S.B. Pahl	Jaysingpur college	—
18.	Miss. K.I. Awati	"	—
19.	Chougule M.U.	Jaysingpur college, Jaysingpur.	—

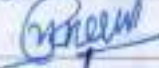
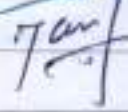
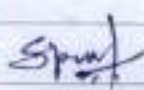
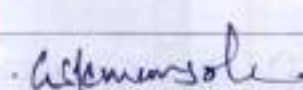
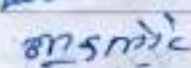
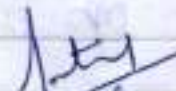
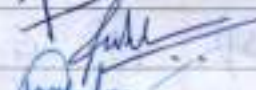
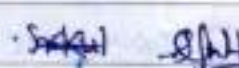
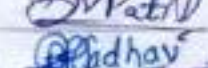
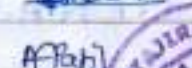


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Date: 31/08/2019
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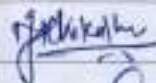
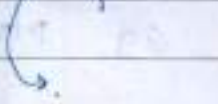
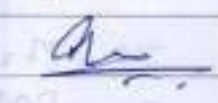
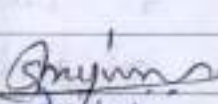
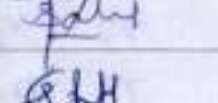
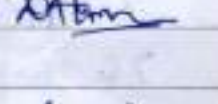
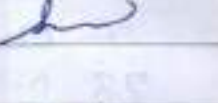
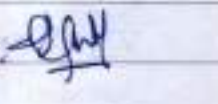
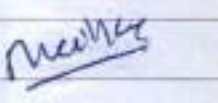
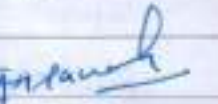
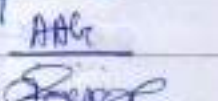
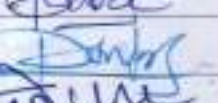
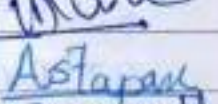
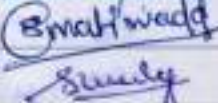
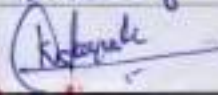


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40.	Miss. Mutli. P. M.	"	8806593616
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44)	Dr. Mane. G.B.	Vijaysingh Jadhav Arts and Science College, Peth Vadgaon	7020443483 9822625270
45)	Dr. Dange. Sunjay. R.	Shardchandra Power. Maharidyalaya. Lonand.	982269370.
46)	Dr. B.S. Shirske	T.C. Wadgaon Maharidyalaya Wadgaon	9325209327
47)	Mujawar S.I.	Dange College, Hatkalangale	9021428760
48)	Mr. Satish S. Patil	Dept. of Chemistry, SUK	9821135385
49)	Mr. K.K. Rangar	R.R. College Jath	8027864187
50)	Mr. D.A. Kumbhar	_____	
51)	Mr. G.D. Jadhav	_____	
52)	Mr. R.M. Jadhav	R.M. Madhokar College Chaudgaon	
53)	Ms. S. Meher Naik	Smt. Kasthubai Walimbe City Sangli	
54)	Dr. A.M. Nalawade	L.B.S. College, Satara	985013796
55)	Dr. A.A. Ghare	DKASC College Ichalkaranji	8605955131
56)	Mr. S.R. More	DKASC College, Ichalkaranji	952113148
57)	Mr. D.J. Sutar	D.K.A.S.C. College, Ich.	997584872
58)	Mr. N.H. Waghmare	D.K.A.S.C. College Ich.	9860049146
59)	Dr. A.S. Tapase	D.K.A.S.C. College, Ich.	95959068
60)	Miss. B.A. Mahiwade	D.K.A.S.C. College Ichalkaranji	74995126
61)	Miss. S.B. Fadnis	D.K.A.S.C. College Ich.	774500724
62)	Miss. K.S. Bagade	D.K.A.S.C. College Ich.	9021803386

Designation	E-mail Id.	Signature.
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Asst. Prof.	dangesunjay tott@gmail.com.	
Asst. Prof.	sschitkar@yahoo.com.	
Asst. Prof.	Sahilmujawar8760@gmail.com	
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Asst. prof.	nileshwagh36@gmail.com.	
Asst. Prof.	asmitatapase@gmail.com	
Asst. prof.	Sypriyapawar1623@gmail.com	
Asst. Prof.	supriyapawar63@gmail.com	
Asst. prof.	bayadekiran18@gmail.com	

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63	Mr. G. K. Chougule	DKASC college, Ichalkaranji	9527840811
64	Miss P. S. Vichare	DKASC college, Ichalkaranji	7774856129
65	Mr. V. B. Shinde	DKASC college, Ichalkaranji	8796882563
66	Dr. Mali Ankush V.	YC college, Karad	9423827682
67	Miss. Patti. Savita Suresh	Annawade dunge college, Hukerangur	9175767803
68	Mr. Rajmane Deepak S.	S B D Mahavidyalaya, Atpadi	9423272451
69	Mr. Nitin A. Kalgude	Shri Vyankteshwara college of science, Peth	9975330547
70	Mrs. Harshakar	Shripatrao chougule	9309742450
71	Dattatraya Bhausa	Arts & science college, Malwad Kotali	9975330547
72	Mr. Kumbale Abhijeet	Vijaysinh Yadav Arts & science Pethwadgaon	9763400201
73	Mrs. Marale Asmita V.	shri Venkateshwara college Peth	9975330547
74	Mr. Kadam Uttam D.	Y. C. Warana Mahavidyalaya, Waranagar	9284782846
75	Mr. Arden Sufyanorajam M.	————— II —————	9881789704
76	Mr. Narale Dattatraya K.	GKG College, Kolhapur	9561892129
77	Dr. Wadga T. M.	Yashwantrao Chavan college, Alankarni	7350454194
78	Dr. Dalavi D. K.	Bhogawali Mahavidyalaya, Kurukali	9765033633
79	Dr. Pore S. V.	MB SK Kanya Mahavidyalaya, Kadegaon	988142419
80	Dr. Patil Dhanshi V.	Krishna Mahavidyalaya, Rethre	9049919830
81	Dr. Salokhe Prabha R.	Y. C. Warana Mahavidyalaya, Waranagar	9421200549
82	Mr. Marale Anil Pandurang	Rajaram College Kolhapur	9561892129
83	Dr. Anita J. Bodake	Rajaram college Kolhapur	9423860935
84	Dr. Puri Sundeep.	Derchund college Arjun nagar.	9049337341
85	Miss. Patil Megha Uday	P. D. V. P college, Tasgaon	8830046904
86	Mr. Pawar Omprakash B.	Rajaram college Kolhapur	9850600674
87	Mr. Manohar Anandh	S. G. M. college, Karad	7083794571
88	Dr. Pratik R. Gaitwad	DYPCT Kolhapur.	9575113680
89	Dr. Nalawade Rekha A.	L. B. S. College Satana	9896688625
90	Mr. Patil Suryakant	D. R. Mane college, Kagal	9764035856

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Asst. Prof.		<u>A. P. Pawar</u>
Asst. Prof.	gaikwad.pratik.70@gmail.com	<u>P. G. Gaikwad</u>
Asst. Prof.	analarwade12@gmail.com	<u>A. A. Alarwade</u>
Asst. Prof.	SusyaPatil102@gmail.com	<u>S. Patil</u>



Sr.No.	Name of faculty	Name of College
90.	Miss Patil Supriya Prashant	Annasaheb Dange College Hadkarni
91.	Mr. Gotpagar Sudam Niruruti	Bajabai Shirpatrao Kadam Kanya Mahavidyalaya, Kadgaon.
92.	Dr. Rajkumar P. Patil	M. H. Shinde Mahavidyalaya Tisangi
93.	Mr. Vinayak V. Gawade	Jaysingpur College Jaysingpur
94.	Miss. Dalvi Ankita Nitin	ASC College Ramanandnagar



Mobile No.	Designation	Email id	Sign.
9325 424130	Asst. Prof.	—	<u>Asst. Prof.</u>
9561122213	Asst. Prof.	—	<u>Gesun</u>
9657 939666	Asst. Prof.	patilRaj-2005@rediffmail.com	<u>R. Patil</u>
7038043953	Asst. Prof.	vvg7077@gmail.com	<u>Devaresh</u>
57909529	Asst. Prof.	dalvian2503@gmail.com	<u>A. H. Dalavi</u>



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

“ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षण प्रसार”

- शिक्षण महर्षी डॉ. बापूजी साळुंखे

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

**Dattajirao Kadam Arts, Science and Commerce
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Index No. : J-23-06-001

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M. Sc. B. Ed.

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

Ref. No. DKASC : 295/2019-20

Date : 31 / 08 / 2019

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,

AS Tapase

(Dr. A. S. Tapase)

Co-Convener

Atch

(Dr. A. A. Ghare)

Convener

Yours Sincerely,

prc

(Dr. R. R. Kumbhar)

प्राचार्य

दत्ताजीराव कदम ए. एस. सी.
कॉलेज, इचलकरंजी.



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M. Sc. B. Ed.

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

Ref. No. DKASC : 695/2019 - 2020

Date : 31 / 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, Kolhapur on Saturday, 31st August 2019.

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Thanking you,

A.S. Tapar

(Dr. A. S. Tapase)

Co-Convener

AA Ghare

(Dr. A. A. Ghare)

Convener

Yours Sincerely,

RR Kumbhar

(Dr. R. R. Kumbhar)

Principal

दत्ताजीराव कदम ए. एस. सी.
कॉलेज, इचलकरंजी.

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M. Sc, B. Ed.

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

Ref. No. DKASC: 295/2019-2020

Date: 31/08/2019

Letter of Appreciation

To,

Prof. Dr. P. N. Bhosale
Department of Chemistry,
Shivaji University,
Kolhapur.

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,

Yours Sincerely,

As Tapase

(Dr. A. S. Tapase)

Co-Convener

AA Ghare

(Dr. A. A. Ghare)

Convener

RR Kumbhar

(Dr. R. R. Kumbhar)

प्राचार्य

दत्ताजीराव कदम ए. एस. सी.
कॉलेज, इचलकरंजी.



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- शिक्षण महर्षी डॉ. बापूजी साहूजी

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Ref. No. DKASC / 2019 - 2020

Date : 31 / 08 / 2019

Letter of Appreciation

To,

Mr. A. A. Pawar
Shikshan maharshi Dr. Bapuji Salunkhe College
Miraj

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,

Yours Sincerely,

A. S. Tapase
(Dr. A. S. Tapase)

A. A. Ghare
(Dr. A. A. Ghare)

R. R. Kumbhar
(Dr. R. R. Kumbhar)

Co-Convener

Convener

o/c

[Signature]

Dr. R. R. Kumbhar

दत्तजीराव कदम ए. एस. सी.
कॉलेज, इचलकरंजी.



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M.Sc. B.Ed.

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

Ref. No. DKASC : 396/2019 - 2020

Date : 31 / 08 / 2019

Letter of Appreciation

To,

Dr. N. S. Pahl
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.

Thanking you,

Yours Sincerely,

AS Tapase

(Dr. A. S. Tapase)

Co-Convener

AA Ghare

(Dr. A. A. Ghare)

Convener

RR Kumbhar

(Dr. R. R. Kumbhar)

Principal

दत्ताजीराव कदम ए. एस. सी.
कोल्हापूर, इचलकरंजी.

Received
31/8/19



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Ref. No. DKASC / 2019 - 2020

Date : 31 / 08 / 2019

Letter of Appreciation

To,

Dr. R. S. Yalandre
Miraj Mahavidyalaya
Miraj

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,

Yours Sincerely,

A. S. Tapase
(Dr. A. S. Tapase)

Co-Convener

A. A. Ghare
(Dr. A. A. Ghare)

Convener

R. R. Kumbhar
(Dr. R. R. Kumbhar)

प्राचार्य
दत्ताजीराव कदम ए. एस. सी.
कॉलेज, इचलकरंजी.

[Signature]



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Ref. No. DKASC-2019-2020

Date: 31/08/2019

Letter of Appreciation

To,

Mr. M. G. Chikalkar
Y. C. Warana Mahavidyalaya
Warananagar

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,

ok
Received
if

As Tapase
(Dr. A. S. Tapase)

Co-Convener

AA Ghare
(Dr. A. A. Ghare)

Convener

Yours Sincerely,

Dr. R. R. Kumbhar
(Dr. R. R. Kumbhar)

प्राचार्य!
दत्ताजीराव कदम ए. एस. सी.
कॉलेज, इचलकरंजी.



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- शिक्षण महर्षी डॉ. बापूजी साळुंखे

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A Report on One Day Workshop on

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

- Date** : Saturday 31st August, 2019
Time : 11.00 am to 05:00 pm
Venue : College Auditorium
Reference : 1) Shivaji University, Kolhapur Letter No. SU / SEMINAR /No. 293 dated 22nd April, 2019
 2) 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



Resource Persons :

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.

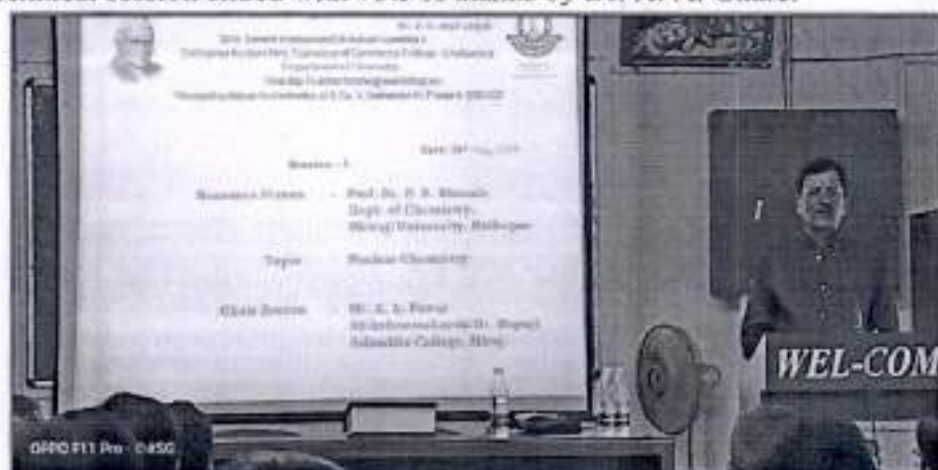
- Dr. A. A. Ghare addressed welcome note and explained the objectives and importance of conducting workshop on revised syllabus.
- All the guests were welcomed and felicitated by offering a sapling as token of love.
- Prin. Dr. R. R. Kumbhar in his presidential address explained the process of syllabus 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 Tapare

(Dr. A. S. Tapase)
Co-coordinator

AA

(Dr. A. A. Ghare)
Co-ordinator

HOD,
Department of Chemistry,
Datta Ram Bahin Arts, Science
& Commerce College,
Ichalkaranji.

RR

(Dr. R. R. Kumbhar)

Principal,
D.K.A.S.C. College,
Ichalkaranji. *RR*





" 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



One day workshop on

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

Paper V, Physical Chemistry"

(Saturday, 31st August, 2019)

☉ Feed-back form ☉

☉ Name of the Faculty: Dr. A.S. Khemare

☉ Name of the College: Rajaram college, Kolhapur

☉ Given the topics for this Workshop?

- a) Too Short b) Right Length ✓ c) Too Long d) Other

☉ Did it help to enhance your knowledge?

- a) Yes very much b) Yes ✓ c) No

3) Resource Persons?

- a) Excellent ✓ b) Very Good c) Good d) Fair

4) Quality of Presentations?

- a) Excellent b) Very Good ✓ c) Good d) Fair

5) Workshop Contents?

- a) Excellent ✓ b) Very Good c) Good d) Fair

6) Hospitality?

- a) Excellent ✓ b) Very Good c) Good d) Fair

7) Overall Workshop?

- a) Excellent ✓ b) Very Good c) Good d) Fair

8) What are the strengths of workshop?

This workshop is successful to give
some concept in the physical chemistry

9) What did you most appreciate / enjoy / think was best about the workshop?

organisation committee has arranged very
excellent manner. I like all presentation

10) How could the workshop be improved?

Signature

A.S. Khemare



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Paper V, Physical Chemistry"

(Saturday, 31st August, 2019)

① Feed-back form ①

① Name of the Faculty: Shalgarokar S. R.

② Name of the College: Smt. K. R. P. Kanya Mahavidyalaya Islampur

③ Given the topics for this Workshop?

- a) Too Short ☒ b) Right Length c) Too Long d) Other

④ Did it help to enhance your knowledge?

- a) Yes very much ☒ b) Yes c) No

⑤ Resource Persons?

- a) ☒ Excellent b) Very Good c) Good d) Fair

⑥ Quality of Presentations?

- a) Excellent ☒ b) Very Good c) Good d) Fair

⑦ Workshop Contents?

- a) ☒ Excellent b) Very Good c) Good d) Fair

⑧ Hospitality?

- a) Excellent b) Very Good c) Good d) Fair

⑨ Overall Workshop?

- a) ☒ Excellent b) Very Good c) Good d) Fair

⑩ What are the strengths of workshop?

The knowledge of the Resource Person was amazing.
The All very positive. An awesome work. Content was
relevant & well presented.

⑪ What did you most appreciate / enjoy / think was best about the workshop?

Totally enjoyed & learned a lot in a comfortable
environment. So Workshop is excellent - learned a great deal
& inspire me to learn more.

⑫ How could the workshop be improved?

No any suggestions.

Shalgarokar
Signature