

Pankaj Nariya is presenting



Shri Manibhai Virani & Smt. Navalben Virani Science College

Department of Chemistry

10th Board of Study Meeting

18th December, 2021



Pankaj Nariya



Satish Tala



You

10:16 AM | Meeting of the Board of Studies-Che...



Pankaj Nariya is presenting

1. Agenda-10th BoS.docx - Microsoft Word

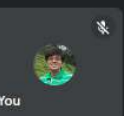
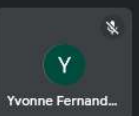
10th MEETING OF BOARD OF STUDIES

Date: 18/12/2021 Mode: hybrid-online/offline mode Time: 10:30 AM

AGENDA

1. Confirmation of MoM of previous BoS held on 30/06/2021
2. Scheme of Learning and Evaluation for 2nd Sem. of B.Sc. Chemistry program
3. Syllabi of all theory & practical courses of Sem.-II of B.Sc. Chemistry program
4. Syllabi & evaluation norms of Part-III : Value Added Course/s (VAC) offered by the department
5. Question paper pattern for all theory & practical courses of Sem.-II of B.Sc. Chemistry program
6. List of paper setters and examiners for all theory & practical courses of B.Sc. Chemistry

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10:34 AM | Meeting of the Board of Studies-Che...

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People

Mute all Add people Host controls

111 GdH

- Dr. Pratik A. A... (You) Meeting host
- Kiritkumar M Rajkotia
- KM Pharma Support
- Mahesh Savant
- Pankaj Nariya
- Pankaj Nariya Presentation
- Principal Shree M & ...
- Satish Tala
- Yvonne Fernandes

10:35 AM | Meeting of the Board of Studies-Che...

REC Pankaj Nariya is presenting

1. Agenda-10th EcS.docx Microsoft Word

10th MEETING OF BOARD OF STUDIES

Date: 18/12/2021 Mode: hybrid-online/offline mode Time: 10:30 AM

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10:36 AM | Meeting of the Board of Studies-Che...

REC P Pankaj Nariya is presenting

Annexure Scheme of Learning and Evaluation.docx - Microsoft Word

B.Sc. Chemistry
SCHEME OF LEARNING AND EVALUATION
For the students admitted from A.Y. 2021-2022 & onwards

		Semester II			SEE Duration (Hours)	Maximum Marks			Credits
Course Code	Course	Contact Hrs/ Week				CLA	SEE	Total	
Part-I: Language course									
21ULCEN201	Functional English	T	Tu	P	3	40	60	100	3
Part-I Total		3	-	-	3	40	60	100	3
Part-II: Discipline Specific Courses									
21UCHCC201	Core 3: Conceptual Inorganic and Analytical Chemistry (F)	4	-	-	3	30	70	100	4
21UCHCC202	Core 4: Conceptual Organic and Physical Chemistry (F)	4	-	-	3	30	70	100	4
21UCHID201	IDC 2: Physics: Solid State Electronics and Nuclear Physics	3	-	-	3	30	70	100	3
21UCHCC203	Core Practical 2: Combined Practical	-	-	12	6	40	60	100	4
21UCHID202	IDC Practical 2: Physics: Solid State Electronics and Nuclear Physics	-	-	6	3	40	60	100	3
	Core Enrichment Course Component 1: Concept to Practice	-	1	-	-	(20)	Evaluation at the end of 4th Semester		-

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10:41 AM 12/18/2021

Pankaj Nariya Satish Tala Kirtikumar M Raj... KM Pharma Sup... Mahesh Savant Yvonne Fernand... Principal Shree ... You

10:41 AM | Meeting of the Board of Studies-Che...

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Annexure Scheme of Learning and Evaluation.docx - Microsoft Word

		week			SEE Duration (Hours)	CIA	SEE	Total	Credits
Course Code	Course	T	Tu	P					
Part-I: Language course									
21ULCEN201	Functional English	3	-	-	3	40	60	100	3
Part-I Total		3	-	-	3	40	60	100	3
Part-II: Discipline Specific Courses									
21UCHCC201	Core 3: Conceptual Inorganic and Analytical Chemistry (F)	4	-	-	3	30	70	100	4
21UCHCC202	Core 4: Conceptual Organic and Physical Chemistry (F)	4	-	-	3	30	70	100	4
21UCHID201	IDC 2: Physics: Electronics and radiation Physics	3	-	-	3	30	70	100	3
21UCHCC203	Core Practical 2: Combined Practical	-	-	12	6	40	60	100	4
21UCHID202	IDC Practical 2: Physics: Solid State Electronics and Nuclear Physics	-	-	6	3	40	60	100	3
	Core Enrichment Course Component 1: Concept to Practice	-	1	-	-	(20)	Evaluation at the end of 4th Semester		-
Part-II Total		11	1	18		170	330	500	18
Part-III: Ability Enhancement Courses									
21AEES201	AECC II: Environmental Conservation and Sustainable Development	1	-	-	-	Remarks		2	
21AEVE202	AECC III: Human Values for Holistic Living	1	2*	-	-	Remarks		3	

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10:44 AM 12/18/2021

Pankaj Nariya Satish Tala Kirtikumar M Raj... KM Pharma Sup... Mahesh Savant Yvonne Fernand... Principal Shree ... You

10:44 AM | Meeting of the Board of Studies-Che...

REC Pankaj Nariya is presenting

Course Content

Course Content	Hours
Unit 1: Transition and Inner-transition elements	10 hrs
Elements of the First Transition Series • Introduction • Reversal of energies of 3d and 4s orbital • Metallic properties • Catalytic properties • Magnetic & Spectral properties • Tendency of Formation of Alloys Lanthanoids and Actinoids elements • Electronic configuration • Oxidation states • Color & Magnetic properties • Lanthanide contraction • Separation of lanthanides (ion exchange method only) • Applications	

10:49 AM | Meeting of the Board of Studies-Che...

REC Pankaj Nariya is presenting

- Douglas A. Skoog, West, Holler, Crouch (2004, 8th edition) *Fundamental of Analytical Chemistry*. Mexico: Thomson-Brooks/Cole (ISBN: 81-315-0051-9).
- Sharma, B. K. (2014) *Instrumental Method of Chemical Analysis*. Meerut: GOEL publishing House (ISBN: 978-81-8283-099-8).
- Christian, Gary D.; Dasgupta, Punendu K.; S. Chug, Kevin A. (2007, 6th edition) *Analytical Chemistry*. Hoboken: Wiley-Blackwell Science Ltd. (ISBN: 978-81-265-1113-6).

Methods of Assessment & Tools:
Components of CIA: 30 marks

Sr. No.	Component	Content	Duration (if any)	Marks	Sub Total
A	Test 1	1 st 2 units	1½ hours	5 (Set for 30)	20
	Test 2	All 5 units	3 hours	15 (Set for 70)	
B	Assignment			05	10
C	Class activity			05	
Grand Total					30
Assignment		• Abstract and executive summary • Case study writing • Concept mapping • Student presented handbook			

10:52 AM | Meeting of the Board of Studies-Che...

REC P Pankaj Nariya is presenting

Re-Accredited at 'A' Level by NAAC
 STAR college Scheme & Status by MST-DBT
 UGC-College with Potential for Excellence (CPE)
 UGC-DDU KAUSHAL Kendra
 GAAA –Grade A-1 by KCG, Government of Gujarat
 GPCB-Government of Gujarat approved Environment Audit Center
 Nodal Center for capacity building by GSBTM

Department of Chemistry
B.Sc. Chemistry
Value Added Course (VAC)

11:10 AM | Meeting of the Board of Studies-Chemistry-MNVSD

REC P Pankaj Nariya is presenting

Students across the University **including** the offering department. (The course should not be a part of regular curriculum of the offering department.)

Semester : II –V (3 year programs) / VII (4 year programs)

Course Code	Course Title	Course Credit and Hours
	Formulation of Detergents & Toilettries	1 Credit - 4 hrs / wk

Objective of the course:

1. Student should be able to understand the basic concept of surface active agents.
2. Understand the basic theory and role of additives in the formulation of cleansing agents and their role in day to day life of humans
3. Students will be able to develop the raw materials and formulation of the soap.
4. Students will be able to develop the raw materials and formulation of the detergents.
5. Student should be able to understand the basic concept of toilettries and their formulation with vast applications.

11:14 AM | Meeting of the Board of Studies-Che...

REC P Pankaj Nariya is presenting

chemistry, focusing primarily on the basic principles to understand the fertility and reactivity of soil. The course also provides understanding of important soil, physical and chemical properties of water quality.

Course Content	Hours
Module-I: Water Analysis– Physical examination pH, temperature, total dissolved solid, suspended solid, acidity, alkalinity, colour, taste, smell, turbidity, hardness of water.	3 hrs
Module-II: Water Analysis– Nonmetallic inorganic constituents chloride, sulphate, Sulphide, fluoride, phosphate, Sulphur, nitrate, nitrite, carbon dioxide, ammonia, cyanide.	3hrs
Module-III : Water Analysis– Mineral and Toxic Ions Mineral ions: calcium, magnesium, iron, sodium, silver, zinc, manganese. Toxic ions: lead, mercury, arsenic, beryllium, cadmium, chromium, copper, selenium.	3hrs
Module-IV : Soil Analysis-Physical Test	3hrs

11:21 AM | Meeting of the Board of Studies-Chem...

Participants: Pankaj Nariya, Satish Tala, Remove KM Pharma Support from the call, Fernand..., Kiritkumar M Raj..., Mahesh Savant, Principal Shree..., You

REC P Pankaj Nariya is presenting

Shri Manibhai Virani and Smt. Navabben Virani Science College (Autonomous), Rajkot
Affiliated to Saurashtra University, Rajkot

**Question Paper Pattern for Semester End Examination
UG & PG Programs**

Duration of Examination: 3 Hrs. Max. Marks: 70

Part A (10 Questions x 1 Mark = 10 Marks)
Answer ALL questions (2 questions from each unit)

1.
↓
10.

Part B (5 Questions x 5 Marks = 25 Marks)
Answer ALL questions (1 question with internal choice from each unit)

11:25 AM | Meeting of the Board of Studies-Chem...

Participants: Pankaj Nariya, Satish Tala, KM Pharma Sup..., Yvonne Fernand..., Kiritkumar M Raj..., Mahesh Savant, Principal Shree..., You

REC



Pankaj Nariya

S

Satish Tala

M

Mahesh Savant

P

Principal Shree M & N Virani Science College

Y

Yvonne Fernandes



You

11:38 AM | Meeting of the Board of Studies-Che...