



ST.WILFRED'S COLLEGE OF ARTS, COMMERCE & SCIENCE

(Affiliated to Mumbai University)

Opp. Ayush Resort, Near Shedung Toll Plaza, Old Mumbai-Pune Highway, Panvel, Navi Mumbai-410206
Ph. No. +91-8655678500, 9699625148 • College Code 1033 • E-mail:stwilfred.acs@gmail.com • website : www.stwilfreds.org

Value Added Course “Environmental Chemistry”

14 December,2020 to 1 February,2021

Coordinated By- Department of Science

Faculty Name-Dr. Nidhi Mathur



St. Wilfred's College of Arts, Commerce & Science



Nidhi Mathur
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St. Wilfred's College of
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Value Added Course Environmental Chemistry Index

Sr.No	Particulars
1	Notice
2	Circular
3	Agenda & Minutes of Meeting
4	Notice For Value Added Courses
5	Circular For Value Added Course
6	Expected Outcome
7	Course Outcome
8	Syllabus and Assessments
9	Time Table/Schedule & Lesson Plan of the Classes
10	Application Form
11	List of students Enrolled
12	Sample Certificate
13	Attendance
14	Report on Value Added Course



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Ref. No.

Date: 08/12/2020

NOTICE

It is to inform all the members of Program Academic Advisory Cell (PAAC) that there will be a meeting on 08/12/2020 at 12.00 PM in Seminar Room to discuss about the various academic activities for the upcoming session. All concerned are requested to attend the meeting on time and be prepared to contribute to the discussion.

Principal



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Date: 08/12/2020

CIRCULAR

It is to inform all the members of Program Academic Advisory Cell (PAAC) that there will be a meeting on 08/12/2020 at 12.00 PM in Seminar Room to discuss about the various academic activities for the upcoming session. All concerned are requested to attend the meeting on time and be prepared to contribute to the discussion.

Principal



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Meeting Minutes

Date: 08/12/2020

Time: 12:00 PM

Place: Seminar Room

Attendees:

S.No.	Name	Designation	Signature
1.			
2.			
3.			
4.			
5.			
6.			

Agenda:

1. To organize Alumni, meet and farewell for the final year students.
2. To conduct student exit survey.
3. To discuss important questions for examination.
4. Soft skills training for placement and internship.
5. Analysis of slow learner and their mentoring.
6. To discuss about the conduction of practical examination.
7. Submission of dissertation and projects by students.
8. To organize seminars by final year students.
9. To conduct remedial classes for weak learners on difficult topics on Saturdays.
10. To organize science exhibition, Panache, departmental quizzes, Industrial trips, surveys etc.
11. To organize Value added courses for Semester 2nd Students

Minutes:

The meeting was called to order by Principal at 12 PM in Seminar Room. The attendees were welcomed, and the agenda for the meeting was presented.

1. **To organize Alumni, meet and farewell for the final year students:** The Principal proposed organizing an Alumni meet to facilitate interactions between current students and successful graduates. The event will serve as an opportunity for networking, mentorship, and sharing experiences. Additionally, a farewell program will be arranged to bid farewell to the final year students and celebrate their achievements. The specific dates and details of these events will be decided in consultation with the concerned faculty members and student representatives.
2. **To conduct student exit survey:** The Principal suggested conducting a student exit survey to gather feedback from graduating students. The survey will focus on their overall



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college experience, including academic programs, infrastructure, faculty support, extracurricular activities, and placement opportunities. The feedback received will help in assessing the college's strengths and areas for improvement.

3. **To discuss important questions for examination:** The Principal highlighted the need to discuss and finalize the important questions for the upcoming University examination. Faculty members were encouraged to collaborate and share their expertise in determining the key topics and questions that students should focus on during their exam preparation. This will ensure that students are well-prepared for the examination.
4. **Soft skills training for placement and internship:** To enhance students' employability and prepare them for the professional world, the Principal proposed conducting soft skills training programs. These programs will focus on improving students' Environmental Chemistry, teamwork abilities, time management, and overall personality development.
5. The training will specifically target placement and internship opportunities, equipping students with the necessary skills to succeed in their future careers.
6. **Analysis of slow learners and their mentoring:** The Principal emphasized the importance of identifying and addressing the needs of slow learners. It was suggested to analyze the performance and progress of such students and provide them with personalized mentoring and support. Faculty members were requested to closely monitor the academic progress of slow learners and implement strategies to help them overcome their challenges.
7. **To discuss the conduction of practical examination:** The Principal proposed a discussion on the conduction of practical examinations. The logistics, evaluation criteria, and assessment procedures for the practical exams will be determined and communicated to the faculty members. It was emphasized that the practical examinations should provide a fair and comprehensive assessment of students' practical knowledge and skills.
8. **Submission of dissertations and projects by students:** The Principal reminded the faculty members about the submission deadline for dissertations and projects by the students. Clear instructions and guidelines regarding the format, content, and submission process should be provided to the students to ensure a smooth submission process.
9. **To organize seminars by final year students:** To showcase the research and academic achievements of the final year students, the Principal suggested organizing seminars where they can present their findings and share their knowledge with the college community. This will provide a platform for intellectual exchange and foster a culture of academic engagement.
10. **To conduct remedial classes for weak learners on difficult topics on Saturdays:** The Principal recommended organizing remedial classes on Saturdays to provide additional support to weak learners. These classes will focus on addressing difficult topics and



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concepts, helping students overcome their challenges and improve their understanding. Faculty members were encouraged to volunteer and contribute to these remedial classes.

11. To organize science exhibition, Panache, departmental quizzes, industrial trips, surveys, etc.: The Principal proposed organizing various extracurricular activities and events, such as science exhibitions, cultural events like Panache, departmental quizzes, industrial trips, and surveys. These activities will provide students with opportunities for practical learning, creative expression, and holistic development.

12. To organize Value added courses for Semester 2nd Students

The Principal elaborated on the importance of providing value-added courses to enhance the academic experience and skill set of students. Various suggestions were put forth regarding the types of value-added courses that could be beneficial for Semester 2nd students. Suggestions included courses related to Environmental Chemistry, coding, financial literacy, and career development.

Action Items:

1. The Principal will coordinate with faculty members and student representatives to finalize the dates and details of the Alumni meet and farewell program.
2. Faculty members will develop and conduct the student exit survey, ensuring comprehensive feedback is collected.
3. Faculty members will collaborate to finalize important questions for the upcoming UOR examination.
4. The administration will organize soft skills training programs, focusing on placement and internship opportunities.
5. Faculty members will identify slow learners, provide personalized mentoring, and monitor their progress.
6. Faculty members will discuss and plan the conduction of UOR practical examinations, ensuring fairness and thorough assessment.
7. The administration will remind students about the submission deadline for dissertations and projects, providing clear guidelines.
8. The administration will facilitate the organization of seminars by final year students, allowing them to showcase their research and knowledge.
9. Faculty members will schedule remedial classes for weak learners on Saturdays, focusing on difficult topics.
10. The administration will coordinate the organization of science exhibitions, Panache, departmental quizzes, industrial trips, surveys, and other extracurricular activities.
11. The Academic Committee will compile a list of potential value-added courses based on the suggestions provided during the meeting.

These action items will be followed up on in subsequent meetings to track progress and ensure the successful implementation of the proposed agendas.

Closing:

Principal expressed gratitude to the staff members for their active participation and valuable input during the meeting. It was emphasized that their collaboration and dedication are essential in implementing the discussed agendas successfully. The staff members were encouraged to further develop and refine these proposals and work collectively towards the holistic development of the students.



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The meeting concluded at 02.00 PM. The next meeting will be scheduled and communicated to the committee members accordingly.

Principal

Date-10/12/2020

Notice

We are pleased to inform all the students that the Value Added Course (VAC)- **Environmental Chemistry** classes will commence from **December 14, 2020**. This course is designed to provide additional skills and knowledge beyond the regular curriculum, enhancing your learning experience and improving your career prospects.

Details of the VAC Classes:

Start Date: **December 14, 2020**

Timings: 3:00 PM to 4:00 PM (Monday to Saturday)

Faculty Coordinator- Dr. Nidhi Mathur

Principal

CC-

HOD of all departments



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Date- 10/12/2020

Circular

We are pleased to inform all the students that the Value Added Course (VAC)- **Environmental Chemistry** classes will commence from **December 14, 2020**. This course is designed to provide additional skills and knowledge beyond the regular curriculum, enhancing your learning experience and improving your career prospects.

Details of the VAC Classes:

Start Date: **December 14, 2020**

Timings: 3:00 PM to 4:00 PM (Monday to Saturday)

Faculty Coordinator- Dr. Nidhi Mathur

Principal

CC-
HOD of all departments



Nidhi Mathur
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Value Added Course: Environmental Chemistry Program Expected Outcomes

Expected outcomes of Environmental Chemistry Program course include:

- **Understanding of Environmental Systems:** Students comprehend the interactions between chemical processes and the environment, including atmospheric, aquatic, and soil systems.
- **Knowledge of Pollutants and Contaminants:** Students identify sources, fate, and effects of pollutants such as heavy metals, pesticides, and industrial chemicals on environmental health.
- **Proficiency in Analytical Techniques:** Students develop skills in chemical analysis methods for monitoring and assessing environmental pollutants, including spectroscopy, chromatography, and mass spectrometry.
- **Awareness of Global Environmental Issues:** Students explore pressing environmental challenges such as air and water pollution, climate change, and ecosystem degradation, and examine their chemical implications.
- **Application of Green Chemistry Principles:** Students learn about sustainable practices and green chemistry solutions to minimize pollution, reduce waste, and promote environmental sustainability.
- **Competence in Environmental Risk Assessment:** Students assess the risks associated with chemical pollutants and contaminants, and propose strategies for mitigation and remediation.
- **Understanding of Environmental Regulations:** Students comprehend environmental laws, regulations, and policies governing chemical pollutants, and their roles in environmental protection and management.
- **Collaboration and Communication Skills:** Students engage in interdisciplinary collaboration and communicate effectively with stakeholders to address environmental challenges and advocate for sustainable solutions.
- **Critical Thinking and Problem-Solving Abilities:** Students analyze complex environmental problems, evaluate scientific evidence, and develop innovative solutions informed by environmental chemistry principles.
- **Preparation for Environmental Careers:** Students are prepared for careers in environmental chemistry, environmental consulting, regulatory agencies, research institutions, and other fields, contributing to the protection and preservation of the environment.



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Value Added Course Environmental Chemistry Program COURSE OUTCOME

Subject	Environmental Chemistry
CO1	Students gain a deep understanding of chemical processes in the environment, equipping them to analyze and address complex environmental challenges with a solid scientific foundation.
CO2	Through laboratory work and field studies, students develop practical skills in chemical analysis, environmental monitoring, and pollution control, enhancing their employability in various environmental science and engineering fields.
CO3	Graduates of Environmental Chemistry programs are well-positioned to develop sustainable solutions to environmental problems, including pollution prevention, waste management, and resource conservation, contributing to a healthier and more sustainable planet.



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Value Added Course Environmental Chemistry (14 December, 2020 to 1 February, 2021)

Syllabus

Topic	Week Days
<ul style="list-style-type: none">• Overview of environmental chemistry and its importance• Basic principles of chemistry relevant to the environment• Sources, transport, and fate of pollutants in the environment• Environmental impact of human activities on air, water, and soil quality	Monday-Saturday
<ul style="list-style-type: none">• Composition and structure of the Earth's atmosphere• Chemical reactions and processes in the atmosphere, including air pollution formation and dispersion• Major air pollutants: sources, effects, and regulation• Climate change and greenhouse gas chemistry	Monday-Saturday
<ul style="list-style-type: none">• Chemical properties of natural waters: pH, alkalinity, hardness, and dissolved oxygen• Pollutants in water systems: nutrients, heavy metals, pesticides, and organic contaminants• Water treatment processes and technologies• Eutrophication, acidification, and other aquatic ecosystem impacts	Monday-Saturday
<ul style="list-style-type: none">• Composition and properties of soil: pH, texture, and organic matter content• Chemical processes in soils: ion exchange, adsorption, and mineral weathering• Soil pollution: sources, fate, and remediation techniques• Soil fertility and nutrient management	Monday-Saturday
<ul style="list-style-type: none">• Analytical techniques for environmental monitoring and analysis: spectroscopy, chromatography, and mass spectrometry• Sampling methods and quality assurance in environmental analysis• Environmental risk assessment and management• Case studies and applications of environmental chemistry principles	Monday-Saturday



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Syllabus: Environmental Chemistry

Unit 1: Introduction to Environmental Chemistry

- Overview of environmental chemistry and its importance
- Basic principles of chemistry relevant to the environment
- Sources, transport, and fate of pollutants in the environment
- Environmental impact of human activities on air, water, and soil quality

Unit 2: Atmospheric Chemistry

- Composition and structure of the Earth's atmosphere
- Chemical reactions and processes in the atmosphere, including air pollution formation and dispersion
- Major air pollutants: sources, effects, and regulation
- Climate change and greenhouse gas chemistry

Unit 3: Aquatic Chemistry

- Chemical properties of natural waters: pH, alkalinity, hardness, and dissolved oxygen
- Pollutants in water systems: nutrients, heavy metals, pesticides, and organic contaminants
- Water treatment processes and technologies
- Eutrophication, acidification, and other aquatic ecosystem impacts

Unit 4: Soil Chemistry

- Composition and properties of soil: pH, texture, and organic matter content
- Chemical processes in soils: ion exchange, adsorption, and mineral weathering
- Soil pollution: sources, fate, and remediation techniques
- Soil fertility and nutrient management

Unit 5: Environmental Analysis and Monitoring

- Analytical techniques for environmental monitoring and analysis: spectroscopy, chromatography, and mass spectrometry
- Sampling methods and quality assurance in environmental analysis
- Environmental risk assessment and management
- Case studies and applications of environmental chemistry principles



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Time Table Environmental Chemistry

W.e.f.: 14/12/2020

Days	Subject	Time
Monday	Environmental Chemistry	03:00-04:00PM
Tuesday	Environmental Chemistry	03:00-04:00PM
Wednesday	Environmental Chemistry	03:00-04:00PM
Thursday	Environmental Chemistry	03:00-04:00PM
Friday	Environmental Chemistry	03:00-04:00PM
Saturday	Environmental Chemistry	03:00-04:00PM

PRINCIPAL

Copy to:

- Vice Principal
- HOD's of all Departments



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Lesson Plan Environmental Chemistry

Unit	Topic	Weekdays	Allotment
Unit-I	Overview of environmental chemistry and its importance Basic principles of chemistry relevant to the environment	Monday-Saturday	03:00-04:00PM
Unit-I	Sources, transport, and fate of pollutants in the environment Environmental impact of human activities on air, water, and soil quality	Monday-Saturday	03:00-04:00PM
Unit-II	Composition and structure of the Earth's atmosphere Chemical reactions and processes in the atmosphere, including air pollution formation and dispersion	Monday-Saturday	03:00-04:00PM
Unit-II	Major air pollutants: sources, effects, and regulation Climate change and greenhouse gas chemistry	Monday-Saturday	03:00-04:00PM
Unit-III	Chemical properties of natural waters: pH, alkalinity, hardness, and dissolved oxygen Pollutants in water systems: nutrients, heavy metals, pesticides, and organic contaminants	Monday-Saturday	03:00-04:00PM
Unit-III	Water treatment processes and technologies Eutrophication, acidification, and other aquatic ecosystem impacts	Monday-Saturday	03:00-04:00PM
Unit-IV	Composition and properties of soil: pH, texture, and organic matter content Chemical processes in soils: ion exchange, adsorption, and mineral weathering	Monday-Saturday	03:00-04:00PM
Unit-IV	Soil pollution: sources, fate, and remediation techniques Soil fertility and nutrient management	Monday-Saturday	03:00-04:00PM
Unit-V	Analytical techniques for environmental monitoring and analysis: spectroscopy, chromatography, and mass spectrometry Sampling methods and quality assurance in environmental analysis	Monday-Saturday	03:00-04:00PM
Unit-V	Environmental risk assessment and management Case studies and applications of environmental chemistry principles Crisis communication: strategies for managing communication during crises and emergencies	Monday-Saturday	03:00-04:00PM



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APPLICATION FORM

Add On Course-"Environmental Chemistry"

Student's Name :

Father's Name :

Class :

Percentage of Marks obtained in Last Qualifying Examination:

Date of Admission in this Institution:

Phone No. :

Mobile :

DETAILS OF ADD ON COURSES

Parent's Signature:

Student's Signature:

Date:

Date:

Reference

Signature of Counsellor:

Name of Counsellor :

Remarks of Counsellor :

Remarks of Principal :



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“Environmental Chemistry”

14 December, 2020 to 1 February, 2021

Enrolled List:-

S. No.	Class	Name
1.	B.Sc.	BhoajnePravinKrishana
2.	B.Sc.	ChavanHina Dinesh
3.	B.Sc.	GaikarShubhamSharad
4.	B.Sc.	GhareTejashreeRamdas
5.	B.Sc.	HadapDakshataDattatray
6.	B.Sc.	JadhavVishakhaVishvapal
7.	B.Sc.	KanadeMihirHaresh
8.	B.Sc.	KharkarBhaveshVinayak
9.	B.Sc.	KherodkarYashSantosh
10.	B.Sc.	KokareKalpeshKaluram
11.	B.Sc.	Dore Deepak Dattu
12.	B.Sc.	LoharGouriKishor
13.	B.Sc.	More JayeshSantosh
14.	B.Sc.	MhatreKalpesh Dinesh
15.	B.Sc.	AHIREKAR KOMAL DINESH
16.	B.Sc.	ShendeKaustubhPramod
17.	B.Sc.	LaleKrutikaYashwant
18.	B.Sc.	Masaye Manish Pradeep
19.	B.Sc.	PatilMansiBaliram
20.	B.Sc.	HusharMiteshRavindra
21.	B.Sc.	Aute Pratik Sahadev
22.	B.Sc.	GoyalBhavika Suresh
23.	B.Sc.	KaparePranavRajendra
24.	B.Sc.	Kharol Raj Ratan
25.	B.Sc.	KoliAnkit Rama
26.	B.Sc.	Lad Avanti Babasaheb
27.	B.Sc.	PalasamkarSuhagDilip
28.	B.Sc.	PathareDivyaNilesh
29.	B.Sc.	PatilVrutikaCharan
30.	B.Sc.	PawarAarati Anil
31.	M.Sc.	BhopiAbhijeetNamdev
32.	M.Sc.	SuryavanshiAkshaySubhash
33.	M.Sc.	Thakur AmolHaribhau
34.	M.Sc.	KurangaleKalpeshSudam
35.	M.Sc.	MhatreManojNitin
36.	M.Sc.	KolambekarPandhariPandurang
37.	M.Sc.	KachareParesh Mohan
38.	M.Sc.	RanawarePoojaGajanan
39.	M.Sc.	Turakane Puja Balasaheb
40.	M.Sc.	GogadePragatiNandkumar



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S. No.	Class	Name
41.	M.Sc.	MhatrePralhadShantaram
42.	M.Sc.	KashidPratiksha Sanjay
43.	M.Sc.	BoritkarRohitVithoba
44.	M.Sc.	Mali Sachin Suresh
45.	M.Sc.	Thompson Samuel Geoffery
46.	M.Sc.	JadhavSantoshi Ram
47.	M.Sc.	ShabanaIsufShaikh
48.	M.Sc.	Pawar Sunny Suresh
49.	M.Sc.	KokambeVaibhavVitthal
50.	M.Sc.	JangamVrushaliPandit



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S. No.	Class	Name	Signature	December/January																		
41.	M.Sc.	MhatrePralhadShantaram																				
42.	M.Sc.	KashidPratiksha Sanjay																				
43.	M.Sc.	BoritkarRohitVithoba																				
44.	M.Sc.	Mali Sachin Suresh																				
45.	M.Sc.	Thompson Samuel Geoffery																				
46.	M.Sc.	JadhavSantoshi Ram																				
47.	M.Sc.	ShabanaIsufShaikh																				
48.	M.Sc.	Pawar Sunny Suresh																				
49.	M.Sc.	KokambeVaibhavVitthal																				
50.	M.Sc.	JangamVrushaliPandit																				

Teacher's Signature



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