BHARTIYA VIDYABHAVAN – DAKOR KENDRA

BHARTIYA VIDHYA BHAVAN'S SHRI ISHVARLAL L. P. ARTS, SCIENCE & SMT. J. SHAH COMMERCE COLLEGE – DAKOR

CRITERION – 1

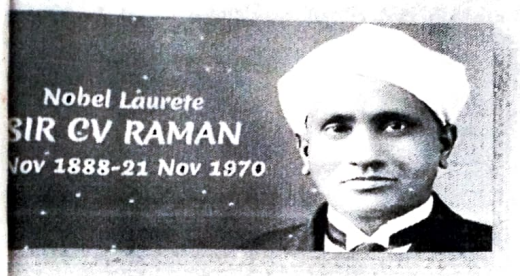
KEY INDICATOR – 1.3 Curriculum Enrichment

2017-18 to 2021-22

1.3.2 Percentage of students undertaking project work/field work/internship (Data for the latest completed academic year)

Programme name	Program Code	List of students undertaking project work/field work/internship	Link to the relevant document
Bachelor of Science	B.Sc.	Purohit Preet p.	
Bachelor of Science	B.Sc.	Rami Neel R.	
Bachelor of Science	B.Sc.	Chauhan jaydeep P.	
Bachelor of Science	B.Sc.	Vasava krishna A.	
Bachelor of Science	B.Sc.	Patel Bhavy J.	
Bachelor of Science	B.Sc.	Raulji Darshan G.	
Bachelor of Science	B.Sc.	Joshi Stuti N.	
Bachelor of Science	B.Sc.	Patel Ashiti S.	
Bachelor of Science	B.Sc.	Barot Janki D.	
Bachelor of Science	B.Sc.	Trivedi Maharshi M.	
Bachelor of Science	B.Sc.	Bhatt Itisha R.	
Bachelor of Science	B.Sc.	Raval Varsha R.	
Bachelor of Science	B.Sc.	Makwana Hiral K.	
Bachelor of Science	B.Sc.	Rathod Tejal R.	
Bachelor of Science	B.Sc.	Talpada Parthiv G.	
Bachelor of Science	B.Sc.	Talpada Parth R.	
Bachelor of Science	B.Sc.	Khorariya Meet C.	
Bachelor of Science	B.Sc.	Devpura Jigar R.	
Bachelor of Science	B.Sc.	Patel Vraj H.	
Bachelor of Science	B.Sc.	Dalwadi Tejas M.	
Bachelor of Science	B.Sc.	Patel Ruhi B.	
Bachelor of Science	B.Sc.	Pandya Rushali N.	
Bachelor of Science	B.Sc.	Patel Ravi D.	
Bachelor of Science	B.Sc.	Desai Shreya	
Bachelor of Science	B.Sc.	Pathan Tofik U.	
Bachelor of Science	B.Sc.	Vhora Javed A.	
Bachelor of Science	B.Sc.	Chauhan Darshna G.	
Bachelor of Science	B.Sc.	Parmar Amita K.	
Bachelor of Science	B.Sc.	Parmar Dipak	
Bachelor of Science	B.Sc.	Dabhi Hasmukh J.	

Bachelor of Science	B.Sc.	Rohit Vipul P.	
Bachelor of Science	B.Sc.	Parmar meet	
Bachelor of Science	B.Sc.	Dabhi ketan	
Bachelor of Science	B.Sc.	Shekh Mahirhusen N.	
Master of Science	M.Sc.	Mahida Pragnesh H.	
Master of Science	M.Sc.	Ghanchi Gulammaiyodin j.	
Master of Science	M.Sc.	Bhoi Rinal B.	
Master of Science	M.Sc.	Prajapati Nisha G.	
Master of Science	M.Sc.	Chavada Priti G.	
Master of Science	M.Sc.	Saiyad Saima J.	
Master of Science	M.Sc.	Malek Alvira I.	
Master of Science	M.Sc.	Shah khushali M.	
Master of Science	M.Sc.	Raulji Priyanka H.	
Master of Science	M.Sc.	Solanki Meghna I.	
Master of Science	M.Sc.	Mahida Salini B.	
Master of Science	M.Sc.	Bhatt Meet R.	
Master of Science	M.Sc.	Prajapati Anal P.	
Master of Science	M.Sc.	Patel Varun R.	
Master of Science	M.Sc.	Prajapati Mehul B.	
Master of Science	M.Sc.	Lalvani vivek N.	
Master of Science	M.Sc.	Parmar Pritesh V.	
Master of Science	M.Sc.	Parmar Harikishan D.	
Master of Science	M.Sc.	Parekh Rahul J.	



One Day State Level Seminar

National Science Day-2022

Theme

"Science of Environment"

28th February, 2022

Organized by

BHAVANS SHRI ISHVARLAL L. P ARTS-SCIENCE AND SMT. J. SHAH COMMERCE COLLEGE, DAKOR:388255
GUJARAT-INDIA

NAAC ACCREDITED

https://bhavanscollegedakor.org

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Dr. T. R. Trivedi (Vice Principal)

Dr. S.A. Gandhi (Convener, NAAC-Coordinator)

Program Schedule

- 09:00 to 10:00: Registration for poster/model exhibition
- 10:00 to 10:30: Inauguration of Laboratory
  P.G Chemistry Lab & GUJCOST/STI Lab
- 10:30 to 11:00: Poster/model Competition
- 11:00 to 01:00: **Invited Lectures** (*Venue: Room no:125*)

1: **Topic:**" *Raman Spectroscopy*"
Prof. M.P. Deshpande (Professor)
Department of Physics,
Sardar Patel University

2: **Topic:** *"Applied Chemistry for Startup India"*
Dr. P. G. Sutariya (Assistant Prof.)
Department of Chemistry
Sardar Patel University

- 01:00 to 02:00: Valedictory Function and Prize Distribution
- **Vote of thanks**

Organizing Committee

Dr. Mrs. B. K. Patel
Dr. Mrs. A. D. Shah
Dr. J. M. Shah
Dr. Y. M. Kadiyani
Dr. P. P. Dholakiya
Prof. S. V. Dholakiya
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STD (02699)
Off. : 244454
Res. : 244412
Mo.: 9426075795
Principal

No.: 637/2021-22 Date : 21 / 02 /2022

To,
Dr. Pinkesh G. Sutariya
Assistant Professor
Department of Chemistry
Sardar Patel University
Vallabh Vidyanagar

Subject: Invitation for the expert lecture on **Applied Chemistry for Startup India** in State Level Seminar on National Science Day

Dear sir,

It gives me immense pleasure to inform you that Science Faculty of our college is organizing a state level seminar dated on 28th February, 2022 for celebration of "National Science Day". I (Dr. M.K. Nayee), would like to invite you for the expert talk on **"Applied Chemistry for Startup India"**. During this event our students will demonstrate live science models and posters on theme of *Science of Environment* under the banner of Bhavan's Science Club activities. We extend you invitation to act as a Judge during this event. I am sure that your knowledge and motivational talk will inspire our students to take up new frontiers in the field of Science.

Kindly acknowledge this letter as our formal invitation.

Thanking You,

Dr. M.K Nayee
I/C Principal

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No.: 636/2021-22 Date : 21 / 02 /2022

To,
Dr. M.P. Deshpande
Professor
Department of Physics
S.P University
Vallabh Vidyanagar

Subject: Invitation for the expert lecture on **Raman Spectroscopy** in State Level Seminar on National Science Day

Dear sir,

It gives me immense pleasure to inform you that Science Faculty of our college is organizing a state level seminar dated on 28th February,2022 for celebration of "National Science Day". I (Dr. M.K. Nayee), would like to invite you for the expert talk on **"Raman Spectroscopy"**. During this event our students will demonstrate live science models and posters on theme of *Science of Environment* under the banner of Bhavan's Science Club activities. We extend you invitation to act as a Judge during this event. I am sure that your knowledge and motivational talk will inspire our students to take up new frontiers in the field of Science.

Kindly acknowledge this letter as our formal invitation.

Thanking You,

Dr. M.K Nayee
I/C Principal

National Science Day-2022

State Level Seminar

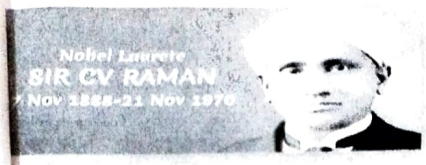
On theme of

"SCIENCE OF ENVIRONMENT"

CERTIFICATE

This is to certify that Prof. /Dr. _____ has delivered an Invited Talk in the One-Day State Level Seminar on theme of "SCIENCE OF ENVIRONMENT" organized by science club, BHAVAN'S SHRI ISHVARLAL. L. P. ARTS-SCIENCE AND SMT. J. SHAH COMMERCE COLLEGE, DAKOR on 28h February 2022.

Dr. Sahaj A. Gandhi	Dr. T. R. Trivedi	Dr. M. K. Nayee
(NAAC CO-Ordinator & Convener)	(Vice Principal)	(I/C Principal)



Azadi Ka Amrit Mahotsav

One Day State Level Seminar

National Science Day-2022

Theme "***Science of Environment"***

28th February, 2022

Prof. M. P. Deshpande

Invited Lectures-1

" Raman Spectroscopy"
Department of Physics,
Sardar Patel University

Dr. P.G. Sutariya

Invited Lectures-2

"Applied Chemistry for Startup India"
Department of Chemistry
Sardar Patel University

Organized by

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Dr. Jitesh Talati
Shri Kamleshbhai Shah
Shri Dushyantnbhai Layazavala
Shri T. S. Dalal
(Members)

Dr. M. K. Nayee (I/C Principal)

Dr. T. R. Trivedi (Vice Principal)

Dr. S.A. Gandhi (Convener, NAAC- Coordinator)

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Principal

Date : 28/02/2022

No.: 700/2021-22

To,
Dr. P. G. Sutariya (Assistant Prof.)
Department of Chemistry
Sardar Patel University
Vallabh Vidyanagar

Subject – Letter of Appreciation for being a speaker for Seminar on 28thFebruary, 2022

Respected Sir,

Warm greetings!

We would like to extend our sincere gratitude towards your informative and inspiring speech entitled "Applied Chemistry for Startup India "during the one-day state level seminaron 28th February,2022 for celebration of "National Science Day"organized byBHAVANS SHRI ISHVARLAL L. P ARTS-SCIENCE AND SMT. J. SHAH COMMERCE COLLEGE, DAKOR:388255 GUJARAT-INDIA.

Please accept our appreciation for such a commendable job. We will take your words intopractice. we once again would like to thank you for such a wonderful session and hope to get a chanceto hear such speeches from you in future also.

Thanking you,

Warm regards,

Dr. M. K. Nayee
(I/C, Principal)

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No.: 904/2021-22

Date : 28 / 02 /2022

Bhavan's Best Research Award- 2021

This is to certify that Dr. Pinkesh Sutariya (Assistant Professor, Department of Chemistry, Sardar Patel University) has been awarded the **Bhavan's Best Research Award-2021** for his extraordinary contribution during the period of 2014-2021. Dr. Pinkesh Sutariya has received two major research projects from DST-SERB and DST-SEED as PI and one major research project from GUJCOST as Co-PI. During this period of his service, he has received seven best research paper awards, published 14 books, 02 book chapters, and 18 international research articles. We wish him for his excellent future at the Department of Chemistry, Sardar Patel University.

(Dr. M.K. Nayee)
I/C Principal

Bhartiya Vidya Bhavan's Shri Ishvarlal L.P. Arts - Sc. &
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No: 701/2021-22 Date : 28/02/2022

To,

Prof. M.P. Deshpande (Professor)

Department of Physics,

Sardar Patel University

Vallabh Vidyanagar

Subject – Letter of Appreciation for being a speaker for Seminar on 28th February, 2022

Respected Sir,

Warm greetings!

We would like to extend our sincere gratitude towards your informative and inspiring speech during the Seminar entitled "RamanSpectroscopy"on 28th February, 2022 organized byBHAVANS SHRI ISHVARLAL L. P ARTS-SCIENCE AND SMT. J. SHAH COMMERCE COLLEGE, DAKOR:388255 GUJARAT-INDIA.

Please accept our appreciation for such a commendable job. We will take your words intopractice. we once again would like to thank you for such a wonderful session and hope to get a chanceto hear such speeches from you in future also.

Thanking you,

Warm regards,

Dr. M. K. Nayee
(I/C, Principal)

NATIONAL SCIENCE DAY-2022

One Day State Level Seminar

"SCIENCE OF ENVIRONMENT"

CERTIFICATE

This is to certify that DR. P.G. SUTARIYA has delivered an Invited Lecture (APPLIED CHEMISTRY FOR STARTUP INDIA) the One-Day State Level Seminar on theme of "SCIENCE OF ENVIRONMENT" organized by science club, BHAVAN'S SHRI ISHVARLAL. L. P. ARTS-SCIENCE AND SMT. J. SHAH COMMERCE COLLEGE, DAKOR on 28h February 2022.

Dr. Sahaj A. Gandhi
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Dr. T. R. Trivedi
(Vice Principal)

Dr. M. K. Nayee
(I/C Principal)

ડાકોરની ભવન્સ કોલેજમાં નેશનલ સાયન્સ ડે ઊજવાયો

ડાકોર : ડાકોરની ભવન્સ કોલેજ ડાકોરમાં નોબેલ પુરસ્કાર વિજેતા સાયન્ટિસ્ટ સી વી રામનની યાદમા નેશનલ સાયન્સ ડે કાર્યક્રમની ઊજવણી કરાઇ હતી સાથે સાથે સ્ટેટ લેવલના સેમિનાર યોજાયો હતો આ કાર્યક્રમમા અતિથિ વિશેષ તરીકે SP યુનિ માથી ફિઝિક્સ ડિપાર્ટમેન્ટના પ્રો ડો પી જી સુતરિયાએ Applied chemistry for startup India વિષય ઉપર વિદ્યાર્થીઓને માર્ગદર્શન આપ્યુ હતુ

(તસ્વીર : મુકુંદ ઝાંપી, ડાકોર)

ડાકોરની ભવન્સ કોલેજમાં 'નેશનલ સાયન્સ ડે'ની ઉજવણી કરવામાં આવી

ડાકોર તા.૧

ભારતીય વિદ્યાભવન સંચાલિત, ભવન્સ કોલેજ ડાકોરમાં નોબેલ પુરસ્કાર વિજેતા સાયન્ટિસ્ટ સી.વી.રામનની યાદમાં 'નેશનલ સાયન્સ ડે' કાર્યક્રમની ઉજવણી કરવામાં આવી હતી. સાથે સાથે સ્ટેટ લેવલનો સેમિનાર યોજવામાં આવ્યો હતો. આ કાર્યક્રમમાં આનંદીબેન વિશેષ તરીકે સરદાર પટેલ યુનિવર્સિટીના ફિઝિક્સ ડિપાર્ટમેન્ટના વડા પ્રો.ડૉ.પી.જી.સુતરિયા સાહેબે ઓપોર્ચ્યુનિટી ફોર સ્ટાર્ટઅપ ઇન્ડિયા વિષય ઉપર માર્ગદર્શન આપ્યું હતું.

રામન સ્પેકટ્રો કોપી વિષય ઉપર માર્ગદર્શન આપ્યું

સરદાર પટેલ યુનિવર્સિટીના ફિઝિક્સ ડિપાર્ટમેન્ટના વડા પ્રો.ડૉ.પી.જી.સુતરિયા સાહેબ રામન સ્પેકટ્રો કોપી વિષય ઉપર માર્ગદર્શન આપ્યું હતું. આ કાર્યક્રમમાં કોલેજના આચાર્ય ડૉ.પી.આર.ત્રિવેદીએ કાર્યક્રમની ભૂમિકા અને આવકાર પરિચય આપ્યો હતો. આવેલા મહેમાનોનો પરિચય કરાવ્યો હતો. આવેલા મહેમાનનો પરિચય ડૉ.સહજ ગાંધીએ આપ્યો હતો. કોલેજના આચાર્ય ડૉ.પી.આર.મહેન્દ્રભાઈએ અભિનંદન પાઠવીને વિદ્યાર્થીઓ અને અધ્યાપકોના ઉત્સાહને વધારો આપ્યો હતો. કાર્યક્રમમાં વિદ્યાર્થી કુમારી રીયા રબારીએ સી.વી. રામન વિશે વક્તવ્ય આપ્યું હતું.

આ કાર્યક્રમમાં ૧૦૦ થી વધુ વિદ્યાર્થી દ્વારા પોસ્ટર-મોડેલ પ્રદર્શનનું આયોજન કરવામાં આવ્યું હતું. જેમાંથી [illegible] વિદ્યાર્થીઓને

ડાકોર ભવન્સ કોલેજ ખાતે "નેશનલ સાયન્સ ડે" ની ઉજવણી કરાઈ

ડાકોર, તા. ૧

સરદાર યુનિવર્સિટી ના ફિઝિક્સ ડિપાર્ટમેન્ટ ના પ્રો. ડો પી જી સુતરીયા એ "એપ્લાઇડ કેમેસ્ટ્રી ફોર સ્ટાર્ટઅપ ઇન્ડિયા" વિષય પર કોલેજ ના વિદ્યાર્થીઓ ને માર્ગદર્શન આપ્યુ. કોલેજ ના ઉપાચાર્ય એ કાર્યક્રમ ની ભૂમિકા ને આવકાર પરિચય કરાવ્યો. કોલેજ ની વિદ્યાર્થીની શ્રેયા રબારી એ ભારત ના "મહાન વૈજ્ઞાનિક સી વી રામન" વિષે વક્તવ્ય આપ્યું. આ કાર્યક્રમમા-૧૦૦- થી વધુ વિદ્યાર્થીઓ એ પોસ્ટર/મોડેલ વિજ્ઞાન અને પર્યાવરણ ની થીમ રજુ કરાઈ. જેમાં પ્રથમ, દ્વિતીય, અને તૃતીય- ક્રમ મેળવનાર ને સન્માનીત કરાયા.

સાથે સાથે અનુસ્નાતક, એમ. એસ. સી. વિભાગ મા કેમેસ્ટ્રિ લેબ તેમજ ભૌતિક શાસ્ત્ર વિભાગ માટે ગુજકોસ્ટ/ સીટી લેબોરેટરી લેબનુ ઉદ્ઘાટન ચેરમેન ભુપણ ભટ્ટ દવારા કરાયું. જેમાં પ્રિન્સિપાલ ડો મહેન્દ્ર નાઈ, ડો. એમ પી દેશપાંડે, ડો પી સી સુતરીઆ, તેમજ પ્રો. ડો. સહજ ગાંધી જેવા પ્રોફેસરો અને વિદ્યાર્થી ઓ એ આ કાર્યક્રમ યોજી નેશનલ સાયન્સ ડે ને સફળ બનાવ્યો.

BHAVANS SHRI ISHVARLAL L. P ARTS-SCIENCE AND SMT. J. SHAH COMMERCE COLLEGE, DAKOR GUJARAT-INDIA

One Day State Level Seminar
National Science Day-2022
Theme
"Science of Environment"
28th February, 2022

Feedback Form

Name: Patel . Mohit. P.

Roll No. : 37

Semester: M. Sc. - II

What is your experience about National Science day dated on 28th February, 2022?

-> It was a good experience.

What is your Opinion about National Science day dated on 28th February, 2022?

These should be full lunch for the students at least.

BHAVANS SHRI ISHVARLAL L. P ARTS-SCIENCE AND SMT. J. SHAH COMMERCE COLLEGE, DAKOR GUJARAT-INDIA

One Day State Level Seminar
National Science Day-2022
Theme
"Science of Environment"
28th February, 2022

Feedback Form

Name: Patel Vijaybhai. S.

Roll No. : 72

Semester: M.Sc II

What is your experience about National Science day dated on 28th February, 2022?

Yes Good

What is your Opinion about National Science day dated on 28th February, 2022?

Yes Good.

BHAVANS SHRI ISHVARLAL L. P ARTS-SCIENCE AND SMT. J. SHAH COMMERCE COLLEGE, DAKOR GUJARAT-INDIA

One Day State Level Seminar
National Science Day-2022
Theme
"Science of Environment"
28th February, 2022

Feedback Form

Name: Chumeria Vanrajbhai Jashalbhai

Roll No. : 76

Semester: Sem-2

What is your experience about National Science day dated on 28th February, 2022?

yes good

What is your Opinion about National Science day dated on 28th February, 2022?

yes good

BHAVANS SHRI ISHVARLAL L. P ARTS-SCIENCE AND SMT. J. SHAH COMMERCE COLLEGE, DAKOR GUJARAT-INDIA

One Day State Level Seminar
National Science Day-2022
Theme
"Science of Environment"
28th February, 2022

Feedback Form

Name: Malek Alvirabanu Iliyasmiya

Roll No. : 02

Semester: 02

What is your experience about National Science day dated on 28th February, 2022?

→ very helpful and knowledgeable day in this Function. new models, charts and projects we show on that day.

What is your Opinion about National Science day dated on 28th February, 2022?

→ my opinion about this day is very interstening thus day when all science students participitue in this compition.

BHAVANS SHRI ISHVARLAL L. P ARTS-SCIENCE AND SMT. J. SHAH COMMERCE COLLEGE, DAKOR GUJARAT-INDIA

One Day State Level Seminar
National Science Day-2022
Theme
"Science of Environment"
28th February 2022

List of student

No	Roll No	Name of Student	Semester
1		Purohit Preet p.	F.Y
2		Rami Neel R.	F.Y
3		Chauhan jaydeep P.	F.Y
4		Vasava krishna A.	F.Y
5		Patel Bhavy J.	F.Y
6		Raulji Darshan G.	F.Y
7		Joshi Stuti N.	F.Y
8		Patel Ashiti S.	F.Y
9		Barot Janki D.	F.Y
10		Trivedi Maharshi M.	F.Y
11		Bhatt Itisha R.	F.Y
12		Raval Varsha R.	F.Y
13		Makwana Hiral K.	S.Y
14		Rathod Tejal R.	S.Y
15		Talpada Parthiv G.	S.Y
16		Talpada Parth R.	S.Y
17		Khorariya Meet C.	S.Y

18		Devpura Jigar R.	S.Y
19		Patel Vraj H.	T.Y
20		Dalwadi Tejas M.	T.Y
21		Patel Ruhi B.	T.Y
22		Pandya Rushali N.	T.Y
23		Patel Ravi D.	T.Y
24		Desai Shreya	T.Y
25		Pathan Tofik U.	T.Y
26		Vhora Javed A.	T.Y
27		Chauhan Darshna G.	T.Y
28		Parmar Amita K.	T.Y
29		Parmar Dipak	T.Y
30		Dabhi Hasmukh J.	T.Y
31		Rohit Vipul P.	T.Y
32		Parmar meet	T.Y
33		Dabhi ketan	T.Y
34		Shekh Mahirhusen N.	T.Y
35		Mahida Pragnesh H.	M.Sc Sem-2
36		Ghanchi Gulammaiyodin j.	M.Sc Sem-2
37		Bhoi Rinal B.	M.Sc Sem-2
38		Prajapati Nisha G.	M.Sc Sem-2
39		Chavada Priti G.	M.Sc Sem-2
40		Saiyad Saima J.	M.Sc Sem-2
41		Malek Alvira I.	M.Sc Sem-2
42		Shah khushali M.	M.Sc Sem-2
43		Raulji Priyanka H.	M.Sc Sem-2
44		Solanki Meghna I.	M.Sc Sem-2

45		Mahida Salini B.	M.Sc Sem-2
46		Bhatt Meet R.	M.sc Sem-4
47		Prajapati Anal P.	M.sc Sem-4
48		Patel Varun R.	M.sc Sem-4
49		Prajapati Mehul B.	M.sc Sem-4
50		Lalvani vivek N.	M.sc Sem-4
51		Parmar Pritesh V.	M.sc Sem-4
52		Parmar Harikishan D.	M.sc Sem-4
53		Parekh Rahul J.	M.sc Sem-4
54		PRAJAPATI RAVI	BSC SEM-6
55		PRAJAPATI NILAY	BSC SEM-6
56		CHAUHAN SANDIP	BSC SEM-6
57		PARMAR RANJAN	BSC SEM-6
58		SAIYED FAIJAN	BSC SEM-6
59		Gohel Krishna P.	M.sc Sem-4
60		Patel Dharti H.	M.sc Sem-4
61		PRAJAPATI VRUSHTI V.	M.sc Sem-4

1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years (10)

Program name	Program code	Name of the Course that include experiential learning through project work/field work/internship	Course code	Year of offering	Name of the student studied course on experiential learning through project work/field work/internship	Link to the relevant document
Bachelor of Science	B.Sc. Semester - I	Chemistry	US01CCHE03	2017-18	AADIL SOEBBHAI POSTI	
		Physics	US01CPHY03	2017-18	AJAYKUMAR SURENDRASINH PARMAR	
		Biology	US01CBIO03	2017-18	AMIT VANRAJSINH PARMAR	
	B.Sc. Semester - II	Chemistry	US02CCHE03	2017-18	ANALKUMAR PRABHAKARBHAI PRAJAPATI	
		Physics	US02CPHY03	2017-18	ARJUNBHAI FATESINH PARMAR	
		Biology	US02CBIO03	2017-18	ASHIHKUMAR CHAHATRASINH PARMAR	
					AVIKUMAR MANOJBHAI SHAH	
					CHIRAG SHANTILAL VALAND	
					DASHARTHKUMAR KANUBHAI VAGHELA	
					DEVKUMAR HASMUKHBHAI PRAJAPATI	
					DHANAJAY MAHESHBHAI PATEL	
					DHARMESHKUMAR VINODBHAI MACHHI	
					DHRUVI PRAVINBHAI ACHARYA	
					DIPAK POPATBHAI PARMAR	
					GAUTAMSINH BHALUSINH SOLANKI	
					HARSHVARDHANSI RAJENDRASINH RAULJI	
					JAIMINKUMAR GOPALBHAI VALAND	
					JAYKUMAR HASHMUKHBHAI PATEL	
					JINKALBEN VINODKUMAR DHOBI	
					MAHAMMADGUFRAN SADIQHUSIN BOKDA	
					MAHAMMADJUNED SABIRMIYA MALEK	
					MANAN KALPESHKUMAR PATEL	
					MAULIKKUMAR MAHESHBHAI MAKWANA	
					MEHUL MAHESHBHAI PARMAR	
					MEHULKUMAR BHAGVATBHAI PRAJAPATI	

					MEHULSINH KARANSINH SOLANKI	
					MILANKUMAR RAJESHBHAI PRAJAPATI	
					PANKAJKUMAR MANGALSINH PARMAR	
					RAJKUMAR SATISHBHAI PATEL	
					RASHESHKUMAR CHANDRAKANT PATEL	
					TIRTHKUMAR HITESHKUMAR PUROHIT	
					URVISH SURESHBHAI PATEL	
					UTPAL YOGESHKUMAR PATEL	
					VARUN RAJESHDRAKUMAR PATEL	
					VASUDEV RAJESHKUMAR PATEL	
					VIMALKUMAR ARVINDBHAI PRAJAPATI	
					VIPUL RAMNBHAI PARMAR	
					VIPULKUMAR PRATAPSINH RATHOD	
					VISHAL MUKESHBHAI CHAUHAN	
					VISHALKUMAR DHULABHAI JADAV	
					VRUSHTIBEN VINODKUMAR PRAJAPATI	
					AJAYKUMAR PARESHBHAI RANA	
					APURVA VRJAYKUMAR CHAUHAN	
					ASHVINKUMAR AJITBHAI DABHI	
					BANKESHKUMAR KANTIBHAI PRAJAPATI	
					BHAVANA NATVARSINH PARMAR	
					BHAVIKABEN YOGESHBHAI PARMAR	
					CHIRAGKUMAR HASMUKHBHAI CHAUHAN	
					CHIRAGKUMAR RAMANBHAI SOLANKI	
					DHARTIBEN HITESHBHAI PATEL	
					DHAVAL ARVINDBHAI PATEL	
					DHRUV SUNILKUMAR DARJI	
					DIVYESHKUMAR MANUBHAI VANKAR	
					DIXEETABEN DHARMENDRABHAI VAREEA	
					GAURANG DINESHKUMAR CHAUHAN	
					GAURI DINESHKUMAR CHAUHAN	
					GAUTAMIBAHEN VIJAYKUMAR ZALA	
					HARSHILKUMAR NARENDRABHAI VALAND	

					HETALBEN VAGHJIBHAI VALAND	
					JAYDIPKUMAR PRAKASHBHAI ZALA	
					JAYDIPSINH TAKHATSINH RATHOD	
					JINAL KETANKUMAR DALWADI	
					KAJOL SHASHIKANT RANA	
					KAPESHKUMAR AJITSINH CHAVDA	
					KARISHMABEN MAHENDRABHAI RAVAL	
					KHUSHBU UMESHKUMAR SHARMA	
					MAHESHKUMAR ARJUNSINH CHAVDA	
					MAITIBEN VIJAYKUMAR PATEL	
					MANSI MUKUNDBHAI PANCHAL	
					MAYURIBEN ISHWARBHAI PARMAR	
					MEET RAJUBHAI BHATT	
					MEHULKUMAR MAFATBHAI PARMAR	
					MITTALBEN BABUBHAI PARMAR	
					MOHINI PARESHBHAI DALWADI	
					MOHIT PRAVINBHAI PATEL	
					MUKESHBHAI VINUBHAI PARMAR	
					MUKESHKUMAR GORDHANBHAI RATHOD	
					NARENDRABHAI BHARATBHAI CHAUHAN	
					NARENDRASINH GULABSINH CHAUHAN	
					NIDHIBEN NARENDRABHAI PATEL	
					NIKUNJKUMAR GAUTAMBHAI RATHOD	
					NILAMBEN RAJPAL PUNJABI	
					NIRALI JAGDISHBHAI PRAJAPATI	
					NISHABEN KISHANBHAI BRAHMAKSHATRIYA	
					NISHABEN NANJIBHAI PARMAR	
					PAYALBEN MUKESHBHAI RATHOD	
					PAYALBEN RAJESHKUMAR RANA	
					PRIYA JAGDISHBHAI PRAJAPATI	
					PRIYANKABEN MAHESHBHAI MAKVANA	
					PRUTHVISINH NARVARSINH ZALA	
					RACHNABEN MAHESHBHAI PATEL	

					RAHULKUMAR KHUMANSINH PARMAR	
					RAHULKUMAR PRAVINBHAI PARMAR	
					RAJESHKUMAR PARVATBHAI SODHA	
					RAVINDRASINH ARJUNSINH SOLANKI	
					RIDHIBEN ASHVINKUMAR SHARMA	
					ROHANKUMAR SANJAYBHAI MACWAN	
					RONAKKUMAR TAKHATSINH PARMAR	
					RUBIYA SABBIRALI SAIYAD	
					RUSHALIBEN PARESHBHAI PATEL	
					RUTU AJITSINH CHAUHAN	
					SABNURBANU YASINBHAI SHEKH	
					SALMAN IBRAHIMBHAI KOLA	
					SANA IMTIYAZBHAI VHORA	
					SANJAYBHAI RANCHHODSINH SOLANKI	
					SATYAVIJAYSINH RAGHUVIRSINH RATHOD	
					SAUMIKBHAI ASHOKBHAI PANCHAL	
					SHALEHABANU SIKANDARKHA RATHOD	
					SHEFALI GIRISHBHAI VALAND	
					SHIVAMKUMAR KALIDAS SODHA	
					SHIVANI MILANKUMAR VYAS	
					SHIVANI RAJUBHAI PATEL	
					SIMABEN SIKANDRABHAI VAHORA	
					SUFIYANBHAI SATTARBHAI GHANDHI	
					SUNILKUMAR GIRISHBHAI CHAVDA	
					SURABHBHAI ASHOKBHAI PANCHAL	
					SURENDRAKUMAR DEEPSINH BARIA	
					SWATIBEN ATULKUMAR SHAH	
					TANVIBEN VINODBHAI SOLANKI	
					TASVIR BHARATBHAI MAKWANA	
					URVIBEN ATULBHAI KANSARA	
					VAISHALI ALPESHKUMAR JAYSWAL	
					VAISHALIBEN CHANDRASINH ZALA	
					VANRAJSINH RANGITSINH ZALA	

					VIJAYKUMAR GOPALSINH PARMAR	
					VIKRAMBHAI KALABHAI BHARVAD	
					VRAJKUMAR MAHENDRABHAI PATEL	
					YAGNESHKUMAR JAYPRAKASHBHAI BRHMBHATT	
					ZALAKBEN VISHNUBHAI PATEL	
Bachelor of Science	B.Sc. Semester - III	Chemistry	US03CCHE03	2017-18	AMIN PARTKUMAR CHIMANBHAI	
		Physics	US03CPHY03	2017-18	BARAIYA KRUSHNA ALPESHKUMAR	
	B.Sc. Semester - IV	Chemistry	US04CCHE03	2017-18	BHARVAD RAJUBHAI DEVABHAI	
		Physics	US04CPHY03	2017-18	BHATT AKASHKUMAR MUKUNDCHANDRA	
					BHATT MALVI VIJAYKUAMR	
					BHOI KEVALKUMAR KANUBHAI	
					BHOI PRADIPKUMAR KANUBHAI	
					CHAUHAN AMITSHIN HARSHADSINH	
					CHAUHAN HITESHKUMAR SANJAYBHAI	
					SADHU JAYDIPKUMAR MUKUNDCHANDRA	
					DABHI AJAYKUMAR AJITSINH	
					DABHI BHAVINKUMAR KANUBHAI	
					DABHI SIDDRAJSINH BHARATSINH	
					JOSHI VRAJ KIRTIKUMAR	
					KHAMBHOLJA MAHARSINH BHARATKUMAR	
					LUHAR DIPAKBHAI VIKRAMBHAI	
					LUHAR JAYDIPKUMAR GOPALBHAI	
					PAREKH RAHULKUMAR JAYESHBHAI	
					PARMAR GHANSHYAMBHAI SHANKARBHAI	
					PARMAR KRUNALSINH DHARMENDRASINH	
					PARMAR PARESHKUMAR KIRITSINH	
					PARMAR PRUTHVISINH RAMESHBHAI	
					PARMAR RANJITSINH MAHENDRASINH	
					PARMAR VIJAYKUMAR BABUBHAI	
					PARMAR VIJAYSINH GANPATSINH	
					PATEL HARSH MAHESHBHAI	
					PATEL MAULIKKUMAR RAKESHBHAI	
					PATEL MITANSHI MAHENDRABHAI	

					PATEL RAHUL KIRITBHAI	
					RATHOD RAMESHBHAI MADHABHAI	
					PATEL TIRTH RAJENDRAKUMAR	
					PATEL YASH PRADIPBHAI	
					PATHAN TOIRKHAN USMANKHAN	
					PRAJAPATI HARDIKKUMAR GOKALBHAI	
					PRAJAPATI RAVIKUMAR RAMCHANDRA	
					RATHOD HARSHADKUMAR PRAVINSINH	
					RAVAL PINAKEENKUMAR RAJESHBHAI	
					SAIYAD AASHIYANABANU AKTHARALI	
					SAIYAD MOHAMMADSAHAD ANVARALI	
					SHAH DIPEN NITINBHAI	
					SOLANKI BHARATSINH KHUMANSINH	
					SOLANKI JAY JAGDISHBHAI	
					SUTHAR BHAGIRATH INDRAJIT	
					THAKOR DARSHANKUMAR AJAYKUMAR	
					VHORA UVESHBHAI SALIMBHAI	
					ZALA ACHINTSHARAN INDRASINH	
					ZALA DIXITKUMAR DINESHBHAI	
					ZALA JAYESHSINH PUNJESINH	
					ZALA KIRITKUMAR GABABHAI	
					ZALA PANKAJKUMAR GOVINDBHAI	
					ZALA RAJESHKUMAR GANPATSINH	
					SHAH DHRUMIL CHETANKUMAR	
					SHASTRI MAULIKKUMAR GIRISHKUMAR	
					SHEKH ALTAFBHAI SALIMBHAI	
					PATEL DHRUVALKUMAR ARUNKUMAR	
					BHOI RONAKKUMAR ASHOKBHAI	
					PARMAR AJITSINH JASHVANTSINH	
					SODHA SAGARKUMAR RAMESHBHAI	
					SAIYED MAHAMMADAADIL SABIRALI	
					GOHEL SANKETKUMAR MAHENDRABHAI	
					BHOI NIRALIBEN VINUBHAI	

					CHAUHAN CHANDANIBEN RAVINDRASINH	
					CHAUHAN HIRALBEN DASHARATHSINH	
					CHAUHAN MEHULKUMAR ARVINDBHAI	
					CHAUHAN MEHULKUMAR BHARATSINH	
					CHAUHAN SANJAYKUMAR VINUBHAI	
					DABHI BHAVNABEN PRATAPSINH	
					DABHI KAUSHIKKUMAR AMARISHBHAI	
					DABHI PARESHKUMAR SHANABHAI	
					PARMAR JITENDRAKUMAR ARVINDBHAI	
					KHANT CHIRAGBHAI NATHABHAI	
					KHANT JAYDEEPSINH NARENDRASINH	
					MALEK ALVIRABANU ILIYASMIYA	
					NISARTA AKSHAYKUMAR SOMABHAI	
					PANCHAL VIRAJ KIRANKUMAR	
					PARJAPATI JIGARKUMAR ANILKUMAR	
					PARMAR ANJALI MANUBHAI	
					PARMAR JAIMINKUMAR NARESHKUMAR	
					PARMAR KALPESHKUMAR BABUBHAI	
					PARMAR MAHESHBHAI PUNAMBHAI	
					PARMAR PRADIPSINH NARSINH	
					PATEL AESHA BALVANTBHAI	
					PATEL AKASHKUMAR CHANDUBHAI	
					PATEL HARSHKUMAR HARIVADANBHAI	
					PATEL INDIRABEN VASANTBHAI	
					PATEL JEET RAMESHCHANDRA	
					PATEL JINKALBEN KIRANBHAI	
					PATEL KAUSHALKUMAR HITESHBHAI	
					PATEL NIPUBEN CHANDUBHAI	
					PATEL NISHABEN SURESHBHAI	
					PATEL PARTHKUMAR HARESHKUMAR	
					PATEL RUCHIK ATULBHAI	
					SOLANKI JATINBHAI SUKHABHAI	
					PRAJAPATI MOHINIBEN ARVINDBHAI	

					PRAJAPATI NEELKUMAR RAMESHBHAI	
					SOLANKI HETALBEN KARANSINH	
					RABARI SANJAY NAGJIBHAI	
					RATHOD JAYRAJKUMAR RATILALBHAI	
					RATHOD JYOTIBEN DILIPBHAI	
					ROHIT MAHESHKUMAR RAMABHAI	
					SODHAPARMAR RAJENDRASINH ARJUNSINH	
					SOLANKI RAKESHKUMAR RANJITSINH	
					SOLANKI CHINTANBEN SHANKARSINH	
					SOLANKI HARSHITABEN LALSINH	
					SOLANKI MEHULKUMAR KIRITBHAI	
					SOLANKI NIDHIBEN MAHENDRASINH	
					SOLANKI PRADHYUMANSINH HASMUKHSINH	
					TALPADA HINALBEN RANCHHODBHAI	
					THAKOR GAURAVKUMAR KANTIBHAI	
					THAKOR JYOTIKABEN RANGITBHAI	
					VALA MITALI RAMESHBHAI	
					VASAVA KISHANKUMAR VITHTHALBHAI	
					VASAVA SHAILESHKUMAR KANUBHAI	
					VASAVA SHREYABEN MANILAL	
					YADAV KINJALBEN RAMNARESH	
					ZALA AARTIBEN MANHARBHAI	
					ZALA DIVYABEN DINESHCHANDRA	
					ZALA PRUTHVISINH NATVARSINH	
					ZALA RAJDEEPSINH MAHOBATSINH	
					ZALA RAVIKUMAR RAJESHBHAI	
					ZALA SANNIKUMAR NITINCHANDRA	
					ZALA NIMISHABEN LALSINH	
					OD KRUNALKUMAR HASMUKHBHAI	
					PARMAR DARSHNABEN DALPATSINH	
					MANSURI MAHAMMADSADAB ILYASHBHAI	
					SONARA JIGNESHABEN MANESHBHAI	
					VANKAR NISHABEN LALJIBHAI	

					PARMAR KARANSINH VIJAYSINH	
					SOLANKI DIVYARAJSINH AMARSINH	
					DABHI SANJAYKUMAR DILIPSINH	
					SINDHVA DHAVALKUMAR PRAVINBHAI	
					PATEL UTSAV ASHOKBHAI	
					CHAUHAN RAHULKUMAR BHAVANSINH	
					PATEL PARTH RAJESHBHAI	
					SODHA HANISHKUMAR NTVARBHAI	
					PATEL AKSHAYKUMAR JAESHBHAI	
					PATEL PREYASHKUMAR UPENDRABHAI	
					PARMAR ANKITABAHEN ARVINDBHAI	
					PARMAR PRIYANKABEN KANTIBHAI	
					CHAVDA SONALBEN PRAVINBHAI	
					CHAVDA RANJITSINH ARVINDSINH	
					KHRISTI ARPITBHAI SHIRILBHAI	
Bachelor of Science	B.Sc. Semester - V	Chemistry	CC 306	2017-18	BARIA KAISHNABEN RAJESHBHAI	
	B.Sc. Semester - VI	Chemistry	CC 312	2017-18	BHARAVAD VIRAMBHAI RAGHUBHAI	
					BHARVAD KETANBHAI MAFATBHAI	
					BHATIYA VIVEKBHAI ATULKUMAR	
					BHATT NTSHA AMRTSHBHAT	
					BHOI JAYDEEPKUMAR VINODBHAI	
					CHAUHAN BHUPATSINH FULABHAI	
					CHAUHAN DHANPALSINH INDRASINH	
					CHAUHAN GAURANGSINH VIKRAMSINH	
					CHAUHAN PARULBEN DILIPSINH	
					CHAUHAN YASH RAJENDRAKUMAR	
					CHAVDA DAMINIBEN HIMMATSINH	
					CHAVDA JAYENDRASINH RAVAJIBHAI	
					CHAVDA KAMLESHKUMAR BHAGVANSINH	
					CHAVDA MEHALIBEN DHANABHAI	
					DABGAR RAHULKUMAR DINESHKUMAR	
					DABHI SHIRISHKUMAR MAHOBATSINH	
					DESAI DIXITKUMAR MAHADEVBHAI	

					GOHEL RASHMIBEN DHARMSINH	
					GOHEL RAVINDRASINH MANOJSINH	
					GOHIL TAMANNA ASHVINBHAI	
					JOSHI DEEP KIRTIBHAI	
					JOSHI NIDHI NIMESHBHAI	
					KALVANI HARDIK GOPALBHAI	
					LUHAR ARJUNBHAI VIKRAMBHAI	
					MAHEDA HITENDRASINH PRAVINSINH	
					MAHIDA AKSHAYKUMAR BHARATSINH	
					MAKWANA HIRENKUMAAR ANILBHAI	
					MALEK FAIYHZMOHAMMAD AIYUBMIYA	
					MALEK IQTIYARMAHAMMAD RAFIKMIYAN	
					MALEK KARIMUDDIN AJIMUDDIN	
					MALEK RAUFHUSEN MAHMMADRAFIK	
					MIRZA SOAIBBEG FARIDBEG	
					PAGI PAYAL CHHATRASINH	
					PANCHAL MEET PRAKASHKUMAR	
					PARMAR AJAYSINH RAJENDRASINH	
					PARMAR ALPESHSINH FATESINH	
					PARMAR ASHOK KANSINH	
					PARMAR BANSHILAL PRAVINSINH	
					PARMAR BHARGAVBHAI MANGALBHAI	
					PARMAR DHARMENDRAKUMAR KIRANBHAI	
					PARMAR DILIPKUMAR SOMABHAI	
					PARMAR GOPALSINHFATESINH	
					PARMAR HIMANSHUKUMAR MAHESHBHAI	
					PARMAR HIRALBAHEN MANUBHAI	
					PARMAR JAYRAJSINH JALAMSINH	
					PARMAR JIGNESHKUMAR BABUBHAI	
					PARMAR KALPESHKUMAR BHARATBHAI	
					PARMAR MAHESHKUMAR KOHYABHAI	
					PARMAR MAHESHKUMAR MAFATBHAI	
					PARMAR MEHULKUMAR MANUBHAI	

					PARMAR MEHULKUMAR RAJESHBHAI	
					PARMAR PRAVINSINH RANGEETSINH	
					PARMAR PRUTHVIRAJ GAUTTAMBHAI	
					PARMAR RANJITKUMAR KIRITBHAI	
					PARMAR RENUKABEN VIJAYSINH	
					PARMAR SANDIPSINH NARESHKUMAR	
					PARMAR SHYAMKUMAR JASAVANT	
					PARMAR SUNILKUMAR HIMATSINH	
					PARMAR VIPULKUMAR BABARSINH	
					PATEL AKASH SHAILESHKUMAR	
					PATEL AMITKUMAR SHANTIBHAI	
					PATEL APEKSHABEN SUNILKUMAR	
					PATEL BHAVIKABEN HASAMUKHBHAI	
					PATEL BINALBEN BHALCHANDRABHAI	
					PATEL BRIJESHKUMAR PRAVINBHAI	
					PATEL CHIRAGKUMAR TRIBHUVANBHAI	
					PATEL DARSHANKUMAR KIRANBHAI	
					PATEL DHARABEN BALDEVBHAI	
					PATEL DIVYABEN ARVINDBHAI	
					PATEL DIVYANI GIRISHBHAI	
					PATEL HARSHITKUMAR ALPESHBHAI	
					PATEL HETAV SUMANBHAI	
					PATEL JAY GUNVANTBHAI	
					PATEL KISHAN NARENDRAKUMAR	
					PATEL KISHANKUMAR JAGDTSHBHAT	
					PATEL MANSIBEN NITINKUMAR	
					PATEL MILANKUMAR RAJENDRAKUMAR	
					PATEL MOHAMADBHAI NOORAHEMADBHAI	
					PATEL PARTH ARVINDKUMAR	
					PATEL PARTHKUMAR JAGDISHBHAI	
					PATEL PRAKASHKUMAR BABUBHAI	
					PATEL PRAPTI PANKAJKUMAR	
					PATEL RINKESHBHAI RAJNIKANT	

					PATEL RUCHIKKUMAR JAGDISHBHAI	
					PATEL RUCHITKUMAR MUKESHBHAI	
					PATEL SAHILKUMAR DINESHBHAI	
					PATEL SANKETKUMAR JIGNESHKUMAR	
					PATEL SANKETKUMAR RAJKUMAR	
					PATEL SWETABEN BHUPENDRABHAI	
					PATEL TAPESHKUMAR RASIKBHAI	
					PATEL UTKARSHKUMAR RAJENDRABHAI	
					PATEL VISHALKUMAR KANTIBHAI	
					PATHAN JAIDKHAN ATAULLAKHAN	
					PATHAN JUNEDKHAN NAZIRKHAN	
					PATLIYA HETALBAHEN RAMESHBHAI	
					POSTI OVESHBHAI ALTAFBHAI	
					PRAJAPATI CHINTAN MAHESHBHAI	
					PRAJAPATI HIRALBEN KAMLESHKUMAR	
					PUROHIT AAHUTIBEN HITESHKUMAR	
					RABARI RAVIKUMAR BHARATBHAI	
					RAJAN PRIYADARSHIKUMAR MANIBHAI	
					RAJPUT NIRMAL MUKESHBHAI	
					RANA DHARTIBEN DEVENDRABHAI	
					RANA NIRAV MANOJKUMAR	
					RATHOD BHAVESHBHAI KANTIBHAI	
					RATHOD JAYKUMAR RAJUBHAI	
					RATHOD NITESHKUMAR JASAVANTBHAI	
					RATHOD PARESHKUMAR KANUBHAI	
					RATHOD PARTHKUMAR UDABHAI	
					RATHOD PRADIPKUMAR RAJENDRASINH	
					RATHOD PRAVINSINH BHARATSINH	
					RATHOD SHILPABEN SURABHAI	
					RAULJI RIDDHIBEN BHARATSINH	
					RAVAL MEETKUMAR PANKAJBHAI	
					RAVAL RAJESHBHAI GIRISHBHAI	
					ROHIT MINAKSHIBEN GIRISHBHAI	

					ROHIT PRITESHKUMAR AMBALAL	
					SAIYAD ASIF SAIYADALI	
					SAIYAD FALAKJAHAN ZAKIRALI	
					SAIYAD MOHAMMADSAJJAD MURTUZAALI	
					SAIYAD NAUSHINBANU JAVIDALI	
					SAIYAD SHAHIDALI ILYASALI	
					SAIYAD TASIRAHEMAD MUKHTIYARALI	
					SEVAK BHAGYESHKUMAR HEMANTBHAI	
					SEVAK NAMANKUMAR SHAILESHBHAI	
					SHAH DHARTI SUNILKUMAR	
					SHAH SAGAR MAHENDRABHAI	
					SHAH SHRADDHABEN VINAYKUMAR	
					SHARMA MEHULKUMAR RAIJIBHAI	
					SHARMA PRIYANKABEN PRAFULKUMAR	
					SHEIKH FATAMABEN AIYUBBHAI	
					SHETKH SALMANAHEMAD INAYATMTYA	
					SHRIGOD VISHALKUMAR GAURISHANKAR	
					SODHA HIMANSHUKUMAR DIPAKBHAI	
					SODHA MEHULKUMAR DILIPSINH	
					SODHAPARMAR BHAVESHKUMAR DALPATSINH	
					SOLANKI GOPAL BHARATSINH	
					SOLANKI JIGNASHABAHEN PRAVINSINH	
					SOLANKI RACHANA VINODBHAI	
					SOLANKI RAKESHKUMAR RAMANBHAI	
					SOLANKI RATANSINH BHARATSINH	
					SUTHAR DHVANIBEN RAJESHKUMAR	
					SUTHAR DIPALBEN NILESHBHAI	
					SUTHAR VIJAL SHAILESHBHAI	
					THAKOR ASHWINKUMAR MADHUBHAI	
					THAKOR HARSHADBHAI RANGITBHAI	
					THAKOR INZAMAMULHAKK IDRISHMIYA	
					THAKOR MEHULBHAI MAHENDRASINH	
					THAKOR SAVITRIDEVI PARVATSINH	

					VAGHELA MEHULBHAI RAMESHBHAI	
					VAHORA AYASHABEN ANAVARBHAI	
					VAHORA SAJIDBHAI MAHAMMADBHAI	
					VALAND NITINKUMAR MUKESHBHAI	
					VALAND VIPULKUMAR KANUBHAI	
					VASAVA URVISHIBEN JAGDISHBHAI	
					VASAVA VIJAYKUMAR VITTHALBHAI	
					YADAV MANISHABEN BHOILENATH	
					ZALA ASHISH MANHARBHAI	
					ZALA ASHVINKUMAR RAMESHBHAI	
					ZALA INDRAJAYVIRSINHJI MAFATSINH	
					ZALA KRUSHNAKUMAR HIRUBHAI	
					ZALA VIRBHADRASINH RANGITSINH	
					SAIYED MAHAMMADAZIZ SABIRALI	
					PATEL JAYMINBHAI BABUBHAI	
					RATHVA MAHESHBHAI DEVSINGBHAI	
Bachelor of Science	B.Sc. Semester - I	Chemistry	US01CCHE22	2018-19	ABHIJIT KARANSINH SOLANKI	
		Physics	US01CPHY22	2018-19	ALHAZMAHAMMAD JAHIRMIYA MALEK	
		Biology	US01CBIO22	2018-19	ANUJ BHUPENDRAKUMAR PRAJAPATI	
	B.Sc. Semester - II	Chemistry	US02CCHE22	2018-19	ARJUNSINH MANHARBHAI SOLANKI	
		Physics	US02CPHY22	2018-19	ARJUNSINH PRUTHVISINH ZALA	
		Biology	US02CBIO22	2018-19	ASALAMHUSEN RAJAKHUSEN BELIM	
					ASHVINKUMAR BHARATSINH CHAVDA	
					ASHVINKUMAR DINESHBHAI RATHOD	
					ASHVINKUMAR RAYSANGBHAI GOHIL	
					BHARATBHAI BHAGVANBHAI ZALA	
					BHAVESHKUMAR HARSHADBHAI BARIA	
					BHAVIKABEN PRAKASHCHANDRA PARMAR	
					BHAVINKUMAR SURESHBHAI DABHI	
					BIPINBHAI MANUBHAI CHAUHAN	
					CHETAN MUKESHBHAI VAGHELA	
					CHIRAGKUMAR RAMANBHAI SOLANKI	
					CHIRAYU BHARATKUMAR SHARMA	

					DASHRATHBHAI MAVJIBHAI JOSHI	
					DHARATIBEN SHANABHAI THAKOR	
					DHARMENDRASINH JUVANSINH DABHI	
					DHARMISHTHABAHEN DEVENDRABHAI RANA	
					DHAVALKUMAR MAHENDRABHAI PANCHAL	
					DHRUV SATISHCHANDRA SHAH	
					DHRUVIL LAXMANBHAI PRAJAPATI	
					DHRUVKUMAR PRAHLADBHAI CHAUHAN	
					DIPAKSINH JASHVANTSINH ZALA	
					DIXITKUMAR CHANDRASINH RATHOD	
					DIYABEN ANILSINH DODIYA	
					FARHANKHAN FIROJKHAN PATHAN	
					GUNJANKUMAR ARVINDLAL PRAJAPATI	
					HARDIKKUMAR DINESHBHAI CHAUHAN	
					HARSHVADANSINH PRAVINSINH CHAVDA	
					HINESHKUMAR NARESHBHAI PARMAR	
					HITENKUMAR SURESHBHAI TALPADA	
					HITESHKUMAR ISHWARBHAI PARMAR	
					HITESHKUMAR KHENGARBHAI BHARVAD	
					INDUBEN JASHVANTSINH PARMAR	
					JANVIBEN MAHENDRABHAI PATEL	
					JAYDEEP SHAILESHBHAI JOSHI	
					JAYKUMAR GOPALDAS BRAHMKSHATRIYA	
					JAYPALSINH RATANSINH THAKOR	
					JINALBEN SHAILENDRASINH CHAUHAN	
					KARANKUMAR JAGDISHBHAI GOHIL	
					KARTIKKUMAR AJITSINH VANJARA	
					KARTIKSINH BHUPENDRASINH RAULJI	
					KAUSHIKKUMAR AMARISHBHAI DABHI	
					KEVALKUMAR VINODBHAI MAKWANA	
					KRISHNABEN KIRITBHAI GOHEL	
					MAHESHKUMAR ARJUNSINH CHAVDA	
					MAITRIBEN MAHESHKUMAR VALAND	

					MANANKUMAR KRUSHNESHKUMAR DAVE	
					MAYANKKUMAR VIPULBHAI BHOI	
					MEGHNABEN INDRAJITSINH SOLANKI	
					MEGHRAJSINH MAHENDRASINH PARMAR	
					MEHULKUMAR DILIPSINH PADHIYAR	
					MEHULKUMAR SANJAYKUMAR THAKOR	
					NANDINIBEN MANHARBHAI PARMAR	
					NAYNESHKUMAR DILIPSINH RAULJI	
					NILESHKUMAR MANILAL PARMAR	
					NISHABEN GUNVANTBHAI PRAJAPATI	
					NISHITABEN SANJAYBHAI DABGAR	
					PANKAJKUMAR JAGDISHBHAI PARMAR	
					PARULBEN AJITSINH CHAUHAN	
					PARULBEN KESHAVBHAI THAKOR	
					PRAHLADBHAI RAJENDRABHAI SOLANKI	
					PRATIKSINH DILIPSINH CHAUHAN	
					PREMKUMAR KIRANKUMAR BHATIYA	
					RAHULKUMAR RAJNIKANT VAGHELA	
					RAJ SHASHIKANTBHAI PATEL	
					RAJVEERSINH YASHAVANTSINH ZALA	
					RASHMIKABEN ANILBHAI PARMAR	
					RINALBEN BHARATBHAI BHOI	
					RUCHITABEN ASHWINBHAI RANA	
					RUTVIK NARESHBHAI PATEL	
					SAFFAN SHOKAT DURVESH	
					SAGARKUMAR DILIPBHAI ZALA	
					SAMIRSHA HUSENSHA DIVAN	
					SANKETKUMAR HITESHBHAI THAKAR	
					SANTUBEN ARJUNSINH DABHI	
					SARFARAZ AHMEDALI BHOCHU	
					SAYMABANU JAVEDALI SAIYAD	
					SHALINI DHARMENDRASINH MAHIDA	
					SHETALBEN ISHVARBHAI PARMAR	

					SHRADDHABEN KIRANSINH RAULJI	
					SHUBHAM KANUBHAI PRAJAPATI	
					SHYAMKUMAR PRAVINSINH PARMAR	
					SIDDHI DINESHBHAI PRAJAPATI	
					SONALBEN DHARMSINH GOHEL	
					SONALIBEN THAKARSIBHAI PRAJAPATI	
					SUNILBHAI GALABHAI CHAREL	
					SUNILKUMAR DINESHBHAI CHAUHAN	
					SUNILKUMAR MADHAVSINH DABHI	
					TAHIR BILAL BANGLI	
					TARUNKUMAR MAHENDRAKUMAR DABGAR	
					TIRTHKUMAR NAINESHBHAI PATEL	
					TRUSHNABEN MANOJKUMAR DABHI	
					UNNATIBEN KAMLESHBHAI KANSARA	
					URVASHIBEN DILIPSINH CHAUHAN	
					URVISH NARENDRABHAI PATEL	
					VIKRAMBHAI PARVATBHAI RATHOD	
					VIRALBEN BHAILALBHAI MAKWANA	
					VIRALKUMAR KANTIBHAI PARMAR	
					VIRENDRAKUMAR AMRABHAI CHAUHAN	
					VISHALKUMAR DINESHBHAI PRAJAPATI	
					VISHALKUMAR KIRANBHAI PATEL	
					VRAJKUMAR RAKESHBHAI PATEL	
					YUVRAJSINH BHARATSINH ZALA	
					AKSHAY GOPALBHAI MAHERA	
					ALPESHKUMAR KHENGARBHAI BHARVAD	
					ASHISHKUMAR LALLUBHAI PARMAR	
					ASHWINBHAI HARISHBHAI PARMAR	
					DEEPKUMAR RAJANIBHAI PATEL	
					DHRUV DINESHBHAI PATEL	
					DIPKUMAR ASHVINBHAI PATEL	
					GOVINDKUMAR RAMESHBHAI CHARAN	
					HARSH MAHESHKUMAR VALAND	

					HARSHRAJ JAYESHBHAI PATEL	
					HETKUMAR NILESHBHAI PATEL	
					JAY RAJESHBHAI PRAJAPATI	
					JAYKUMAR ASHOKBHAI PRAJAPATI	
					Jaykumar Mahendrasinh Raj	
					KAUSHIKBHAI NARENDRABHAI PARMAR	
					KULDIPKUMAR ANILBHAI RAVAL	
					MITKUMAR VIKASBHAI TRIVEDI	
					NANDAN HITENDRABHAI PATEL	
					NILESHKUMAR RAYSINGBHAI THAKOR	
					NIRBHAYSINH DIGHVIJAYSINH PARMAR	
					PRATIKKUMAR SANJAYKUMAR PATEL	
					PRITESHKUMAR JAYENDRASINH VAGHELA	
					RAGHUVIRSINH RANGITSINH PARMAR	
					RIYAZ KASAM KHODA	
					RUSHIKUMAR SATISHCHANDRA JOSHI	
					SAHILHUSEN GULAMRASUL SHEKH	
					SANJAYKUMAR JEENUBHAI PARMAR	
					SHAILESHKUMAR BHARATSINH DABHI	
					SURESHKUMAR PRAVINSINH PARMAR	
					SWETABEN MAHENDRASINH CHAUHAN	
					TUSHARKUMAR ARVINDBHAI RAVAL	
					VANRAJBHAI JASHUBHAI CHUNARA	
					VIRENDRASINH HIRAJI SISODIYA	
					VRUSHABHKUMAR MAHENDRABHAI MACHHI	
					YASH PRAVINBHAI PRAJAPATI	
					YOGESHKUMAR ISHVARBHAI BHOI	
					YUVRAJSINH KANUBHAI SOLANKI	
					FULDIPSINH PRAVINSINH ZALA	
					DEVANG SANJAYKUMAR SHAH	
					UTSAV KETANBHAI SHAH	
					PRITIBEN GIRISHKUMAR CHAVDA	
					TEJALBEN RAMESHBHAI PATELIYA	

					JYOTIKABEN DHIRENDRAKUMAR SOLANKI	
Bachelor of Science	B.Sc. Semester - III	Chemistry	US03CCHE03	2018-19	ANALKUMAR PRABHAKARBHAI PRAJAPATI	
		Physics	US03CPHY03	2018-19	ASHVINKUMAR AJITBHAI DABHI	
	B.Sc. Semester - IV	Chemistry	US04CCHE03	2018-19	AJAYKUMAR SURENDRABHAI PARMAR	
		Physics	US04CPHY03	2018-19	AMIT VANRAJSINH PARMAR	
					AADIL SOEBBHAI POSTI	
					AJAYKUMAR PARESHBHAI RANA	
					ARJUNBHAI FATESINH PARMAR	
					BHAVIKABEN YOGESHBHAI PARMAR	
					BANKESHKUMAR KANTIBHAI PRAJAPATI	
					CHIRAG SHANTILAL VALAND	
					DHRUTI PRAVINBHAI ACHARYA	
					DEVKUMAR HASMUKHBHAI PRAJAPATI	
					DHAVALKUMAR ARVINDBHAI PATEL	
					DHARTIBEN HITESHBHAI PATEL	
					DIPAKKUMAR POPATBHAI PARMAR	
					DIVYESHKUMAR MANUBHAI VANKAR	
					DAARMESHKUMAR VINODBHAI MACHHI	
					GAUTAMSINH BHALUSINH SOLANKI	
					HARSHVARDHANSINH RAJENDRASINH RAULJI	
					HETALBEN VAGHJIBHAI VALAND	
					HARSHKUMAR VIJAYBHAI PATEL	
					HARIKISHAN DEVISINH PARMAR	
					JIGNESHKUMAR MAHESHBHAI PARMAR	
					JAYDIPKUMAR PRAKASHBHAI ZALA	
					JAYMIN IINDRAVADAN PATEL	
					JAYMINKUMAR GOPALBHAI VALAND	
					KALPESHKUMAR AJITBHAI CHAVDA	
					KARISHMABEN MAHENDRABHAI RAVAL	
					KRISHNA PRAKASHKUMAR GOHEL	
					MEHULSINH KARANSINH SOLANKI	
					MAULIKKUMAR GIRISHKUMAR SHASHTRI	
					MITTALBEN BABUBHAI PARMAR	

					MEHULKUMAR BHAGVATBHAI PRAJAPATI	
					MAULIKKUMAR MAHESHBHAI MAKWANA	
					MAYURIBEN ISHVARBHAI PARMAR	
					MEHULKUMAR MAFATBHAI PARMAR	
					MOHIT PRAVINBHAI PATEL	
					MANISHABEN LALJIBHAI RABARI	
					MUKESHKUMAR GORDHANBHAI RATHOD	
					MUNTASIR MUSTAQ YAYMAN	
					MANSI MUKUNDBHAI PANCHAL	
					MEET RAJUBHAI BHATT	
					NIRALI JAGDISHBHAI PRAJAPATI	
					NISHABEN NANJIBHAI PARMAR	
					NISHABEN KISHANBHAIBRAHMAKSHATRIYA	
					NIDHIBEN NARENDRABHAI PATEL	
					NIKUNJKUMAR GAUTAMBHAI RATHOD	
					PANKAJKUMAR MANGALSINH PARMAR	
					PARTHAVSINH CHANDRASINH SOLANKI	
					PAYALBEN RAJESHKUMAR RANA	
					RASHESHKUMAR CHANDRAKANT PATEL	
					RAJESHKUMAR PARVATBHAI SODHA	
					RACHANABEN MAHESHBHAI PATEL	
					RAHULKUMAR JAYESHBHAI PAREKH	
					RAJKUMAR SATISHBHAI PATEL	
					RAHULKUMAR PRAVINBHAI PARMAR	
					RUSHALIBEN PARESHBHAI PATEL	
					RUBIYA SABBIRALI SAIYAD	
					SANJAYKUMAR PRAVINSINH PARMAR	
					SHIVANI MILANKUMAR VYAS	
					JAYKUMAR HASMUKHJBHAI PATEL	
					SUNILKUMAR GIRISHBHAI CHAVDA	
					SHIVAMKUMAR KALIDAS SODHA	
					SHIVANI RAJUBHAI PATEL	
					SUFIYANBHAI SATTARBHAI GHANCHI	

					SAUMIKBHAI ASHOKBHAI PANCHAL	
					SANJAYBHAI RANCHHODSINH SOLANKI	
					SHALEHABANU SIKANDARKHA RATHOD	
					SIMA SIKANDARBHAI VAHORA	
					SURENDRAKUMAR DIPSINH BARIA	
					SALMAN IBRAHIM KOLA	
					SHREYA MANILAL VASAVA	
					SABNURBANU YASINBHAI SHEKH	
					SAURABHBHAI ASHOKBHAI PANCHAL	
					SWATIBEN ATULKUMAR SHAH	
					TIRTHKUMAR HITESHBHAI PUROHIT	
					TANVIBEN VINODBHAI SOLANKI	
					VRAJKUMAR MAHENDRABHAI PATEL	
					VRUSHTIBEN VINODKUMAR PRAJAPATI	
					VIPULKUMAR PRATAPSINH RATHOD	
					VANRAJSINH RANGITSINH ZALA	
					VISHAL MUKESHBHAI CHAUHAN	
					VARUNKUMAR RAJENDRABHAI PATEL	
					VINA NANAKRAM LALVANI	
					VIPULKUMAR RAMANBHAI PARMAR	
					VIJAYKUMAR GOPALSINH PARMAR	
					VIVEK NANAKRAM LALVANI	
					VIMALKUMAR ARVINDBHAI PRAJAPATI	
					VISHALKUMAR DHULABHAI JADAV	
					ZALAKBEN VISHNUBHAI PATEL	
					ARJUNBHAI FATESHINH PARMAR	
					BHARATSINH DILIPSINH DABHI	
					YOGESHVARSINH JASHVANTSINH DABHI	
					ASHWINKUMAR BABUBHAI ZALA	
					VIJAYKUMAR DINESHBHAI SOLANKI	
					CHIRAGKUMAR HASMUKHBHAI CHAUHAN	
					VIKRAMBHAI KALABHAI BHARVAD	
					PURVINKUMAR GIRISHBHAI SODHA	

					HARSHILKUMAR NARENDRABHAI VALAND	
					NARENDRASINH SOMABHAI DABHI	
					SANJAYBHAI KANTIBHAI PARMAR	
					SANJAYKUMAR VITTHALBHAI DABHI	
					PANKAJKUMAR JASHVANTSINH ZALA	
					JAYESHKUMAR RATABHAI ZALA	
					PRUTHVI KALPESHBHAI SUKHDIYA	
					PRIYANKKUMAR RAJESHBHAI PATEL	
					MUKESHBHAI VINUBHAI PARMAR	
					PARESHKUMAR KIRITSINH PARMAR	
Bachelor of Science	B.Sc. Semester - V	Organic Chemistry	US05CCHE08	2018-19	AMITSINH HARSHADSINH CHAUHAN	
		Inorganic Chemistry	US05CCHE09	2018-19	AJITSINH JASHVANTSINH PARMAR	
		Pysical Chemistry	US05CCHE07	2018-19	AASHIYANABANU AKHATARALI SAIYAD	
	B.Sc. Semester - VI	Organic Chemistry	US06CCHE08	2018-19	ALVIRABANU ILIYASMIYA MALEK	
		Inorganic Chemistry	US06CCHE09	2018-19	AKASHKUMAR CHANDUBHAI PATEL	
		Pysical Chemistry	US06CCHE07	2018-19	AJAYKUMAR AJITSINH DABHI	
					BHARATSINH KHUMANSINH SOLANKI	
					BHAGIRATH INDRAJIT SUTHAR	
					CHIRAGBHAI NATHABHAI KHANT	
					DHRUVALKUMAR ARUNKUMAR PATEL	
					DIXITKUMAR DINESHBHAI ZALA	
					DARSHANKUMAR AJAYKUMAR THAKOR	
					DHRUMIL CHETANKUMAR SHAH	
					DIPEN NITINBHAI SHAH	
					GHANSHYAMBHAI SHANKARBHAI PARMAR	
					GAURAVKUMAR KANTIBHAI THAKOR	
					HARSH MAHESHBHAI PATEL	
					HARSHADKUMAR PRAVINSINH RATHOD	
					INDIRABEN VASANTBHAI PATEL	
					JYOTIKABEN RANGITBHAI THAKOR	
					KINJALBEN RAMNARESH YADAV	
					KIRITKUMAR GABABHAI ZALA	
					KRUSHNA ALPESHKUMAR BARAIYA	

					MEHULKUMAR BHARATSINH CHAUHAN	
					MITALI RAMESHBHAI VALA	
					MAHARSHI BHARATKUMAR KHAMBHOLJA	
					MOHINIBEN ARVINDBHAI PRAJAPATI	
					MAHESHBHAI PUNAMBHAI PARMAR	
					NEELKUMAR RAMESHBHAI PRAJAPATI	
					PARTHKUMAR HARESHKUMAR PATEL	
					PRADIPKUMAR KANUBHAI BHOI	
					PRADIPSINH NARSINH PARMAR	
					PREYASHKUMAR UPENDRABHAI PATEL	
					RAVIKUMAR RAMCHANDRA PRAJAPATI	
					RAHULKUMAR BHAVANSINH CHAUHAN	
					RAKESHKUMAR RANJITSINH SOLANKI	
					RAJENDRASINH ARJUNSINH SODHAPARMAR	
					RANJITSINH ARVINDSINH CHAVDA	
					RAVIKUMAR RAJESHBHAI ZALA	
					SANJAY NAGJIBHAI RABARI	
					SANJAYKUMAR VINUBHAI CHAUHAN	
					SANNIKUMAR NITINCHANDRA ZALA	
					SANJAYKUMAR DILIPSINH DABHI	
					SAGARKUMAR RAMESHBHAI SODHA	
					SIDDHARTHSINH BHARATSINH DABHI	
					TOKIRKHAN USMANKHAN PATHAN	
					UVESHBHAI SALIMBHAI VHORA	
					VIJAYSINH GANPATSINH PARMAR	
					VIRAJ KIRANKUMAR PANCHAL	
					BHAVINKUMAR KANUBHAI DABHI	
					HIRALBEN DASHRATHSINH CHAUHAN	
					MEHULKUMAR KIRITBHAI SOLANKI	
					ALTAFBHAI SALIMBHAI SHAIKH	
					ARPITBHAI SHIRILBHAI KHRISTI	
Bachelor of Science	B.Sc. Semester - I	Chemistry	US01CCHE22	2019-20	AAYUSHIBEN PARESHKUMAR DALWADI	
		Physics	US01CPHY22	2019-20	AESHABEN ARVINDBHAI PATEL	

		Biology	US01CBIO22	2019-20	AJAYKUMAR KISHORBHAI PARMAR	
	B.Sc. Semester - II	Chemistry	US02CCHE22	2019-20	AKSHRSINH GUNVANTBHAI BODANA	
		Physics	US02CPHY22	2019-20	Alay Kirankumar Sheth	
		Biology	US02CBIO22	2019-20	AMITABEN KANTILAL PARMAR	
					ANILKUMAR JAYESHBHAI PATEL	
					ANJALIBEN NANSINH PARMAR	
					ANJALIBEN RAMESHBHAI BHOI	
					ARJUNSINH CHHATRASINH PARMAR	
					ASTHA DILIPKUMAR JAYSWAL	
					AXAYKUMAR AJITSINH PARMAR	
					Bhagyeshkumar Vinodbhai Gadhvi	
					BHARATSINH VINUBHAI THAKOR	
					CHETANKUMAR RAMSINH DABHI	
					Chintankumar Gopalbhai Patel	
					DALPATSINH NATVARSINH ZALA	
					Darshnaben Govindbhai Chauhan	
					DASHRATHSINH ARJUNSINH PARMAR	
					DEV HITESHKUMAR PATEL	
					DHARATIBEN SHANABHAI THAKOR	
					DHARTIBEN DILIPKUMAR PATEL	
					DHARTIBEN KHIMJIBHAI PARMAR	
					Dhavalkumar Kishorbhai Vaghela	
					Dhruvi Randhirsinh Puvar	
					Dhruvkumar Jayantibhai Talpada	
					DIGVIJAY SINGH DASHRATH SINGH ZALA	
					Dipakkumar Bhagabhai Baraiya	
					DIPAKKUMAR KANJIBHAI PARMAR	
					DIVYABEN ASHOKBHAI GOHEL	
					DIVYANIBEN MAHIPALSINH RATHOD	
					DIVYESH DARSHANKUMAR SUTHAR	
					DURGESHKUMAR ARVINDBHAI PATEL	
					FOZIYABANU MUSTAKMIYA MALEK	
					FULSINH VISHNUJI THAKOR	

					GAUTAMBHAI PARESHBHAI THAKOR	
					GIRVATSINH RANJITSINH CHAUHAN	
					Govindsinh Natvarsinh Chavda	
					HARSHADKUMAR MOHANBHAI MACHHI	
					Harshkumar Chetanbhai Patel	
					HARSHVARDHANSINH GANPATSINH PARMAR	
					HASMUKHBHAI JUVANSINH DABHI	
					HEMANGIBEN RAJESHBHAI PRAJAPATI	
					HIMALAYKUMAR VITHTHALBHAI TALPADA	
					HINALBEN VIKRAMBHAI ZALA	
					HIRALBEN ASHOKBHAI PARMAR	
					Hirenkumar Rameshbhai Sodha	
					HITESHKUMAR MAHENDRASINH CHAUHAN	
					JAGADISHKUMAR RAJESHBHAI RATHOD	
					JAIMEEN VINODKUMAR DHOBI	
					JAVEDBHAI AADAMBHAI VHORA	
					JAYDEEPSINH SURESHBHAI CHAUHAN	
					JAYDIPSINH NARENDRASINH SOLANKI	
					JAYENDRAKUMAR BHARATBHAI TALPADA	
					JAYPALSINH BACHUBHAI CHAUHAN	
					JITENDRAKUMAR BALVANTSINH CHAUHAN	
					JITENDRASINH JABARSINH ZALA	
					KALPESHBHAI BABUBHAI SOLANKI	
					Karankumar Jashbhai Thakor	
					KEVALKUMAR MAFATBHAI PARMAR	
					KHUSHBOOBEN GOPALSINH PARMAR	
					KIRTANSINH RAMSINH SOLANKI	
					Kishan Ramsinh Zala	
					KISHANKUMAR DILIPSINH PARMAR	
					KRINABEN NAVINDRABHAI RATHAVA	
					KRISHNABEN DILIPSINH SOLANKI	
					MAHAMMAD ARKAN SAFI MAHAMMAD MALEK	
					MAHAMMADFAIJAN LIYAKATALI SAIYAD	

					MAHAMMADRAFIK ABDULKARIM KHALIFA	
					MAHENDRAKUMAR RAMESHBHAI SODHA PARMAR	
					MAHESHWARI DINESHBHAI MAKWANA	
					MAHIPALSINH MAHENDRABHAI PARMAR	
					MAHIRHUSEN NAJIRHUSEN SHEKH	
					MANSHIBEN RAMESHBHAI JADAV	
					MANSIBEN DIPAKBHAI PATEL	
					MATIN NAIM SINDHI	
					MAYURKUMAR JAGABHAI JADAV	
					MIT DEVENDRAKUMAR PARMAR	
					MITESHKUMAR PUNAMSINH RATHOD	
					MITIKSHA ARUNSINH PARMAR	
					MITKUMAR BHUPENDRABHAI PATEL	
					MOINMIYA ABDULRAHIM MALEK	
					NANDANIBEN RAJANIKANTBHAI PATEL	
					NAVAJHUSEN SAJIDHUSEN KURESHI	
					NAZNEENBANU ASHRAFKHAN PATHAN	
					NIDHI ASHOKKUMAR PRAJAPATI	
					NIKHATFAEMA ZAKIRALI SAIYAD	
					NILESHKUMAR MAHENDRABHAI PARMAR	
					NIMAY JAGADISHBHAI PATEL	
					Parth Pujabhai Taral	
					PARULBEN RANGITSINH PARMAR	
					PRAFULKUMAR BUDHABHAI PARMAR	
					Pragnesh Jagdishbhai Rabari	
					PREKSHABEN MAHENDRABHAI PATEL	
					PRERNABEN SHAILESHBHAI BHOI	
					RAHUL RAJNIKANT PATEL	
					RAHULKUMAR ARVINDBHAI RATHOD	
					Rahulkumar Dineshbhai Prajapati	
					Rahulkumar Vikramsinh Solanki	
					RAJESHKUMAR BHUPATBHAI VAGHELA	
					RANJEETBHAI BHIKHABHAI CHAVDA	

					RAVI DHARMENDRAKUMAR PATEL	
					RAVIKUMAR VIJAYBHAI SHAH	
					RAVINDRAKUMAR KAUSHIKBHAI JADAV	
					Ravirajsinh Hitendrasinh Bihola	
					RITESHKUMAR NILESHBHAI BHOI	
					RITIKABEN FATESINH RATHOD	
					ROHITKUMAR VINUBHAI PARMAR	
					RUHI BHAVINKUMAR PATEL	
					RUSHALI NIKUNJKUMAR PANDYA	
					SADIYAFATEMA ZAKIRALI SAIYAD	
					SAHDEVKUMAR GANPATBHAI PARMAR	
					Sandipkumar Mahendrabhai Parmar	
					SEEMABEN KANUBHAI RABARI	
					SHANAFATIMA SAKIRALI SAIYAD	
					SHEEMABANU SABBIRALI SAIYAD	
					SHIVANI KAMLESHBHAI PATEL	
					SHREEPAL JABRAJI PUROHIT	
					SHREYA AJAYKUMAR DESAI	
					SUHANABANU ABDULKHAN PATHAN	
					SWETABEN MAHENDRASINH CHAUHAN	
					TARUNKUMAR PRAVINSINH ZALA	
					TEJALBEN RAMESHBHAI PATELIYA	
					TEJASH MUKESHBHAI DALWADI	
					Tejash Rajnikant Patel	
					Tofikkhan Usmankhan Pathan	
					Upendrasinh Jayendrasinh Vadher	
					VANRAJSINH GUNVANTSINH PARMAR	
					VASANTKUMAR GOVINDBHAI PARMAR	
					VASIMAHEMAD NAJIRMHAMMAD MALEK	
					VIDHIBEN DEVENDRAKUMAR SHAH	
					VIJAYKUMAR BALVANTSINH PARMAR	
					VIRBHADRASINH AJITSINH PARMAR	
					VIRENDRAKUMAR JASHUBHAI VAGHELA	

					VISHALKUMAR RAJNIBHAI CHAUHAN	
					Vivek Naineshbhai Patel	
					VRAJ HARSHADBHAI PATEL	
					YAGNESHBHAI RAMABHAI BARAIYA	
					YOGESHKUMAR BABUBHAI PARMAR	
					HITESHKUMAR TARUNKUMAR SODHA	
					URVISHKUMAR BHUPENDRASINH PARMAR	
					ANKIT PARESHBHAI RANA	
					SUNILKUMAR MAHENDRABHAI MAHERA	
					UMANGKUMAR NARENDRABHAI VALA	
					SMITKUMAR GOPALBHAI RABARI	
					SUNILKUMAR M. THAKOR	
Bachelor of Science	B.Sc. Semester - III	Chemistry	US03CCHE23	2019-20	AKASHKUMAR MAHENDRABHAI MACWANA	
		Physics	US03CPHY23	2019-20	ALPESHKUMAR KHENGARBHAI BHARVAD	
	B.Sc. Semester - IV	Chemistry	US04CCHE23	2019-20	ANUJ BHUPENDRAKUMAR PRAJAPATI	
		Physics	US04CPHY23	2019-20	ASHVINKUMAR BHARATSINH CHAVDA	
					ASHWINBHAI HARISHBHAI PARMAR	
					BHARATSINH GOMSINH DEVAL	
					BHAVESHKUMAR HARSHADBHAI BARIA	
					BHAVIKABEN PRAKASHCHANDRA PARMAR	
					BHAVINKUMAR SURESHBHAI DABHI	
					CHETAN MUKESHBHAI VAGHELA	
					CHIRAGKUMAR RAMANBHAI SOLANKI	
					DASHRATHBHAI MAVJIBHAI JOSHI	
					DEEP HARESHKUMAR CHAVDA	
					DEEPKUMAR RAJANIBHAI PATEL	
					DEVANG SANJAYKUMAR SHAH	
					DHARMISHTHABAHEN DEVENDRABHAI RANA	
					DHAVALKUMAR MAHENDRABHAI PANCHAL	
					DHRUV DINESHBHAI PATEL	
					DHRUV SATISHCHANDRA SHAH	
					DHRUVIL LAXMANBHAI PRAJAPATI	
					DHRUVKUMAR PRAHLADBHAI CHAUHAN	

					DILIPBHAI GIRISHBHAI DABHI	
					DIPKUMAR ASHVINBHAI PATEL	
					GOVINDKUMAR RAMESHBHAI CHARAN	
					GULAMMAIYODIN JAKIRHUSEN GHANCHI	
					GUNJANKUMAR ARVINDLAL PRAJAPATI	
					HARDIKKUMAR DINESHBHAI CHAUHAN	
					HARSHVADANSINH PRAVINSINH CHAVDA	
					HINESHKUMAR NARESHBHAI PARMAR	
					HITENKUMAR SURESHBHAI TALPADA	
					HITESHKUMAR KHENGARBHAI BHARVAD	
					INDUBEN JASHVANTSINH PARMAR	
					JAY RAJESHBHAI PRAJAPATI	
					JAYDEEP SHAILESHBHAI JOSHI	
					JAYENDRASINH JASVANTSINH PARMAR	
					JAYKUMAR ASHOKBHAI PRAJAPATI	
					JAYKUMAR GOPALDAS BRAHMKSHATRIYA	
					Jaykumar Mahendrasinh Raj	
					JINALBEN SHAILENDRASINH CHAUHAN	
					JYOTIKABEN DHIRENDRAKUMAR SOLANKI	
					JYOTIKABEN DHIRENDRAKUMAR SOLANKI	
					KARTIKKUMAR AJITSINH VANJARA	
					KARTIKSINH BHUPENDRASINH RAULJI	
					KAUSHIKKUMAR AMARISHBHAI DABHI	
					KEVALKUMAR VINODBHAI MAKWANA	
					KHUSHALI MUKESHKUMAR SHAH	
					KRISHNABEN KIRITBHAI GOHEL PEC	
					KULDIPKUMAR ANILBHAI RAVAL	
					MAYANKKUMAR VIPULBHAI BHOI	
					MEGHNABEN INDRAJITSINH SOLANKI	
					MEHULKUMAR SANJAYKUMAR THAKOR	
					MILANKUMAR BHARATBHAI PATEL	
					MITKUMAR VIKASBHAI TRIVEDI	
					MO NOFIL SHAIKH	

					NANDINIBEN MANHARBHAI PARMAR	
					NILESHKUMAR RAYSINGBHAI THAKOR	
					NISHABEN GUNVANTBHAI PRAJAPATI	
					NISHITABEN SANJAYBHAI DABGAR	
					PANKAJKUMAR JAGDISHBHAI PARMAR	
					PARULBEN AJITSINH CHAUHAN	
					PARULBEN KESHAVBHAI THAKOR	
					PRAGNESHSINH HARVATSINH MAHIDA	
					PRAHLADBHAI RAJENDRABHAI SOLANKI	
					PRATIKKUMAR SANJAYKUMAR PATEL	
					PRATIKSINH DILIPSINH CHAUHAN	
					PRITIBEN GIRISHKUMAR CHAVDA	
					PRITIBEN GIRISHKUMAR CHAVDA	
					RAJ SHASHIKANTBHAI PATEL	
					RINALBEN BHARATBHAI BHOI	
					RUSHIKUMAR SATISHCHANDRA JOSHI	
					SAMIRSHA HUSENSHA DIVAN	
					SANJAYKUMAR JEENUBHAI PARMAR	
					SANKETKUMAR HITESHBHAI THAKAR	
					SANTUBEN ARJUNSINH DABHI	
					SAYMABANU JAVEDALI SAIYAD	
					SHALINI DHARMENDRASINH MAHIDA	
					SHETALBEN ISHVARBHAI PARMAR	
					SHUBHAM KANUBHAI PRAJAPATI	
					SHYAMKUMAR PRAVINSINH PARMAR	
					SMIT NAIMESHKUMAR PATEL	
					SONALBEN DHARMSINH GOHEL	
					SUNILKUMAR MADHAVSINH DABHI	
					SURESHKUMAR PRAVINSINH PARMAR	
					TIRTHKUMAR NAINESHBHAI PATEL	
					TUSHARKUMAR ARVINDBHAI RAVAL	
					URVISH NARENDRABHAI PATEL	
					UTSAV KETANBHAI SHAH PEC	

					VANRAJBHAI JASHUBHAI CHUNARA	
					VIRALBEN BHAILALBHAI MAKWANA	
					VIRALKUMAR KANTIBHAI PARMAR	
					VIRENDRAKUMAR AMRABHAI CHAUHAN	
					VIRENDRASINH HIRAJI SISODIYA	
					VISHALKUMAR DINESHBHAI PRAJAPATI	
					VRAJKUMAR RAKESHBHAI PATEL	
					YASH PRAVINBHAI PRAJAPATI	
					YOGESHKUMAR ISHVARBHAI BHOI	
					ALHAZNAHAMMAD JAHIRMIYA MALEK	
					HARSHRAJ JAYESHBHAI PATEL	
					ASALAMHUSEN RAJAKHUSEN BELIM	
					FARHANKHAN FIROJKHAN PATHAN	
					MAHESHKUMAR ARJUNSINH CHAVDA	
					HITESHKUMAR ISHWARBHAI PARMAR	
					MEHULKUMAR DILIPSINH PATHIYAR	
					RUTVIK NARESHBHAI PATEL	
					SAHILHUSEN GULAMRASUL SHEKH	
					HARSH MAHESHBHAI VALAND	
					ASHISHKUMAR LALLUBHAI PARMAR	
					TRUSHNABEN MANOJKUMAR DABHI	
					FULDIPSINH PRAVINSINH ZALA	
					RAJVERSINH YASHVANTSINH ZALA	
					ARJUNSINH PRUTHVISINH ZALA	
					YUVRAJSINH BHARATSINH ZALA	
					RUCHITABEN ISHWARBHAI RANA	
					DIYABEN ANILSINH DODIYA	
					URVASHIBEN DILIPSINH CHAUHAN	
					ABHIHJIT KARANSINH SOLANKI	
					SHRADDHABEN KIRANSINH RAULJI	
					RASHMIKABEN ANILBHAI PARMAR	
					RAGHUVIRSINH RANGITSINH PARMAR	
					NANDANKUMAR HETENDRAKUMAR PATEL	

					ASHVINKUMAR DINESHBHAI RATHOD	
					ARJUNSINH MANHARBHAI SOLANKI	
					RIYAZ KASAM KHODA	
					NANDANKUMAR HETENDRAKUMAR PATEL	
					SUNILKUMAR DINESHBHAI CHAUHAN	
					BHARATBHAI BHAVWANBHAI ZALA	
					GAJPALSINH HARENDRASINH PUWAR	
Bachelor of Science	B.Sc. Semester - V	Organic Chemistry	US05CCHE08	2019-20	AESHA BALVANTBHAI PATEL	
		Inorganic Chemistry	US05CCHE09	2019-20	AJAYKUMAR PARESHBHAI RANA	
		Pysical Chemistry	US05CCHE07	2019-20	AJAYKUMAR SURENDRABHAI PARMAR	
	B.Sc. Semester - VI	Organic Chemistry	US06CCHE08	2019-20	AMIT VANRAJSINH PARMAR	
		Inorganic Chemistry	US06CCHE09	2019-20	ANALKUMAR PRABHAKARBHAI PRAJAPATI	
		Pysical Chemistry	US06CCHE07	2019-20	ARJUNBHAI FATESHINH PARMAR	
					ASHVINKUMAR AJITBHAI DABHI	
					ASHWINKUMAR BABUBHAI ZALA	
					BANKESHKUMAR KANTIBHAI PRAJAPATI	
					BHARATSINH DILIPSINH DABHI	
					BHAVIKABEN YOGESHBHAI PARMAR	
					CHIRAG SHA+C19NTILAL VALAND	
					DAARMESHKUMAR VINODBHAI MACHHI	
					DEVKUMAR HASMUKHBHAI PRAJAPATI	
					DHARTIBEN HITESHBHAI PATEL	
					DHAVALKUMAR ARVINDBHAI PATEL	
					DIVYESHKUMAR MANUBHAI VANKAR	
					GAUTAMSINH BHALUSINH SOLANKI	
					HARIKISHAN DEVISINH PARMAR	
					HARSHVARDHANSINH RAJENDRASINH RAULJI	
					JAYESHKUMAR RATABHAI ZALA	
					JAYKUMAR HASMUKHJBHAI PATEL	
					JAYMIN IINDRAVADAN PATEL	
					JAYMINKUMAR GOPALBHAI VALAND	
					KARISHMABEN MAHENDRABHAI RAVAL	
					KRISHNA PRAKASHKUMAR GOHEL	

					MUKESHKUMAR GORDHANBHAI RATHOD	
					MAYURIBEN ISHWARBHAI PARMAR	
					MANISHABEN LALJIBHAI RABARI	
					MANSI MUKUNDBHAI PANCHAL	
					MEET RAJUBHAI BHATT	
					MEHULKUMAR BHAGVATBHAI PRAJAPATI	
					MEHULSINH KARANSINH SOLANKI	
					MITTALBEN BABUBHAI PARMAR	
					MOHIT PRAVINBHAI PATEL	
					NIKUNJKUMAR GAUTAMBHAI RATHOD	
					NIRALI JAGDISHBHAI PRAJAPATI	
					NISHABEN KISHANBHAIBRAHMAKSHATRIYA	
					NISHABEN NANJIBHAI PARMAR	
					PANKAJKUMAR MANGALSINH PARMAR	
					PARTHAVSINH CHANDRASINH SOLANKI	
					PAYALBEN RAJESHKUMAR RANA	
					PINAKEENKUMAR RAJESHBHAI RAVAL	
					PURVINKUMAR GIRISHBHAI SODHA	
					RAHULKUMAR JAYESHBHAI PAREKH	
					RAHULKUMAR PRAVINBHAI PARMAR	
					RAJESHKUMAR GANPATSINH ZALA	
					RUBIYA SABBIRALI SAIYAD	
					RUSHALIBEN PARESHBHAI PATEL	
					RAJESHKUMAR PARVARBHAI SODHA	
					SABNURBANU YASINBHAI SHEKH	
					SANJAYBHAI KANTIBHAI PARMAR	
					SANJAYKUMAR VITTHALBHAI DABHI	
					SANKETKUMAR MAHENDRABHAI GOHEL	
					SAUMIKBHAI ASHOKBHAI PANCHAL	
					SAURABHBHAI ASHOKBHAI PANCHAL	
					SHALEHABANU SIKANDARKHA RATHOD	
					SHIVAMKUMAR KALIDAS SODHA	
					SHIVANI MILANKUMAR VYAS	

					SHIVANI RAJUBHAI PATEL	
					SHREYA MANILAL VASAVA	
					SIMA SIKANDARBHAI VAHORA	
					SURENDRAKUMAR DIPSINH BARIA	
					SWATIBEN ATULKUMAR SHAH	
					TANVIBEN VINODBHAI SOLANKI	
					RAMESHBHAIMADHABHAI RATHOD	
					VARUNKUMAR RAJENDRABHAI PATEL	
					VIJAYKUMAR DINESHBHAI SOLANKI	
					VIKRAMBHAI KALABHAI BHARVAD	
					VINA NANAKRAM LALVANI	
					VIPULKUMAR PRATAPSINH RATHOD	
					VIPULKUMAR RAMANBHAI PARMAR	
					VISHALKUMAR DHULABHAI JADAV	
					PRIYANKKUMAR RAJESHBHAI PATEL	
					VIVEK NANAKRAM LALVANI	
					VRAJKUMAR MAHENDRABHAI PATEL	
					VRUSHTIBEN VINODKUMAR PRAJAPATI	
					ZALAKBEN VISHNUBHAI PATEL	
					VANRAJSINH RANGITBHAI ZALA	
					JAYDIPKUMAR PRAKASHBHAI ZALA	
					VIMALKUMAR ARVINDBHAI PRAJAPATI	
					JITENDRAKUMAR AVINDBHAI PARMAR	
					KALPESHKUMAR AJITBHAI CHAVDA	
					DIPAKBHAI VIKRAMBHAI LUHAR	
					DHAVALKUMAR PRAVINBHAI SINNDHVA	
					SUNILKUMAR GIRISHBHAI CHAVDA	
					SALMAN IBRAHIMBHAI KOLA	
					NARENDRASINH SOMABHAI DABHI	
					SUFIYANBHAI SATTARBHAI GHANCHI	
					RASHESHKUMAR CHANDRAKANT PATEL	
					HARSHKUMAR VIJAYBHAI PATEL	
					DHRUTI PRAVINBHAI ACHARYA	

					JIGNESHKUMAR MAHESHKUMAR PARMAR	
					MEHULKUMAR MAFATBHAI PARMAR	
					PANKAJKUMAR JASHVANTSINH ZALA	
					AARTIBEN MANHARBHAI ZALA	
					DARSHNABEN DALPATSINH PARMAR	
					DIPAKKUMAR POPATBHAI PARMAR	
					YOGESWARSINH JASHVANTSINH DABHI	
					JINKALBEN KIRANBHAI PATEL	
					JAYDIPKUMAR GOPALBHAI LUHAR	
					KISHANKUMAR VITTHALBHAI VASAVA	
					NIMISHABEN LALSINH ZALA	
					SONALBEN PARVINBHAI CHAVDA	
					TIRTHKUMAR HITESHKUMAR PUROHIT	
					VIJAYKUMAR GOPALSINH PARMAR	
					HARSHILKUMAR NARENDRABHAI VALAND	
					RAJKUMAR SATESHBHAI PATEL	
Bachelor of Science	B.Sc. Semester - I	Chemistry	US01CCHE22	2020-21	AKSHAYKUMAR MAHESHBHAI RATHOD	
		Physics	US01CPHY22	2020-21	AMITSINH BALVANTSINH PARMAR	
		Biology	US01CBIO22	2020-21	ANKURKUMAR VIKRAMSINH PARMAR	
	B.Sc. Semester - II	Chemistry	US02CCHE22	2020-21	ASHISHKUMAR VIKRAMSINH PARMAR	
		Physics	US02CPHY22	2020-21	BHAVINKUMAR RAJENDRASINH CHAVDA	
		Biology	US02CBIO22	2020-21	BINDUBEN DHARMSINH GOHEL	
					BIPINKUMAR JUVANSINH PATEL	
					DEVRAJSINH NAVALSINH CHAVDA	
					DILIPSINH BALADEVSINH PARMAR	
					DISHABEN AJITSINH MAHIDA	
					DIVYARAJSINH VIKRAMSINH MAHIDA	
					GAYATRIBEN ARAVINDBHAI DABHI	
					GULAM MOHYUDDIN YUSUFKHA	
					HEMIN DILIPBHAI BHATT	
					HETAXIBEN DASHRATHBHAI PATEL	
					HETVIBEN MANOJKUMAR PATEL	
					HIRALBEN KANUBHAI MAKWANA	

					JANAK RANGITSINH PATEL	
					JAYESHKUMAR PRAVINSINH DABHI	
					JAYPALKUMAR ANOPBHAI PARMAR	
					JAYPALKUMAR NARENDRASINH DABHI	
					JAYRAJSINH RANJITSINH ZALA	
					JAYSHREEBEN RAJESHBHAI PARMAR	
					JAYSHRIBEN NATVARSINH RATHOD	
					KAMALESH BIJALBHAI BHARAVAD	
					KAMLESHKUMAR FATESINH PARMAR	
					KARANSINH JAGDEVSINH PARMAR	
					KISHANKUMAR PRAVINSINH PARMAR	
					KULDIPSINH JAVANSINH PARMAR	
					KUNJKUMAR HASMUKHBHAI PURANI	
					KUSUMBEN DALPATSINH DABHI	
					MUMATABEN MELABHAI BARAIYA	
					NAMIRABANU LYAKATALI KAZI	
					NEEMABEN ARVINDKUMAR CHAUHAN	
					Nidhiben Pareshkumar Patel	
					NIMISHABEN PRAVINSINH RAULJI	
					PARTH PRAVINBHAI TALPADA	
					PARVATIBAHEN VIKRAMSINH SOLANKI	
					PRINCE DAVIDBHAI RATHOD	
					PRUTHVIKA VIJAYKUMAR PATEL	
					RAJVIRSINH VAJENDRASINH MAHIDA	
					RITULKUMAR VIKRAMBHAI SODHA	
					RONAKKUMAR VIJAYSINH SODHA PARMAR	
					RONAKSINH TAKHATSINH ZALA	
					SABINABANU NUREHMAD SHAIKH	
					SHAHIDRAJA SADARUKHAN PATHAN	
					SHIVAM SANJAYBHAI RANA	
					SUMITKUMAR TAKHATSINH PARMAR	
					SURPALSINH TAKHATSINH GOHIL	
					TULSIKUMAR ASHOKBHAI THAKOR	

					VEDANG JITENDRAKUMAR JOSHI	
					VIDHI HEMALKUMAR DESAI	
					VISHALKUMAR MUKESHBHAI GOHEL	
					VISHNUBHAI BHAGAVANSINH ZALA	
					VISHVESWAR DASHRATHBHAI DODIYA	
					VRUNDA JITENDRAKUMAR PATEL	
					YOGARAJSINH POPATSINH RATHOD	
					YOGESHWAREEBEN CHIRAGBHAI MAHERA	
					YUKTI DIPTESHKUMAR UPADHYAY	
					YUVRAJSINH RANGITSINH PARMAR	
					KAUSHIKKUMAR MAHENDRASINH DABHI	
					NITINKUMAR DINUBHAI DABHI	
					RAGINIBEN DHARMENDRABHAI RATHOD	
					SHAILESHKUMAR PARBATSINH DABHI	
					AKSHAYKUMAR ASHVINBHAI KHANT	
					ANKESHKUMAR UDESINH BODANA	
					ARTIBEN DILIPKUMAR RATHOD	
					CHAITANYA JAYANT ADHVARYU	
					DHAIRYAKUMAR MANUBHAI CHAVDA	
					DHAVALKUMAR CHANDRASINH RATHOD	
					HARENDRASINH PRAVINSINH PARMAR	
					HARSHKUMAR MAHENDRASINH	
					HARSHKUMAR RAJENBHAI PANDYA	
					HETKUMAR JAYANTKUMAR PATEL	
					JAIMINKUMAR BIPINBHAI BHOI	
					JAYDIPKUMAR ARVINDBHAI VALAND	
					KAUSHIKBHAI NARENDRABHAI PARMAR	
					KRISHNABEN VIJAYSINH PARMAR	
					KRUPALIBEN VANRAJSINH RAJPARMAR	
					MAHAMMAD RAHUL ABDULRAZAK	
					MANOJKUMAR ISHVARBHAI GOHIL	
					PRAGNESHKUMAR MOTIBHAI MAHERA	
					PRITESHKUMAR BHARATBHAI MACHHI	

					SAGARKUMAR SOMABHAI MEHRA	
					SIDDHARTH ALKESHBHAI PATEL	
					Sonu Lakjaari Gupta	
					TEJALBEN RAJENDRASINH RATHOD	
					TILAKKUMAR RAMESHBHAI RAVAL	
					VAISHALIBEN ISHWARSINH VAGHELA	
					VISHALKUMAR CHANDRAKANTBHAI	
					VRAJ MINESHBHAI PATEL	
Bachelor of Science	B.Sc. Semester - III	Chemistry	US03CCHE23	2020-21	AAYUSHIBEN PARESHKUMAR DALWADI	
		Physics	US03CPHY23	2020-21	AESHABEN ARVINDBHAI PATEL	
	B.Sc. Semester - IV	Chemistry	US04CCHE23	2020-21	AJAYKUMAR KISHORBHAI PARMAR	
		Physics	US04CPHY23	2020-21	AKSHRSINH GUNVANTBHAI BODANA	
					Alay Kirankumar Sheth	
					AMITABEN KANTILAL PARMAR	
					ANILKUMAR JAYESHBHAI PATEL	
					ANJALIBEN NANSINH PARMAR	
					ANJALIBEN RAMESHBHAI BHOI	
					ARJUNSINH CHHATRASINH PARMAR	
					ASTHA DILIPKUMAR JAYSWAL	
					AXAYKUMAR AJITSINH PARMAR	
					Bhagyeshkumar Vinodbhai Gadhvi	
					BHARATSINH VINUBHAI THAKOR	
					CHETANKUMAR RAMSINH DABHI	
					Chintankumar Gopalbhai Patel	
					DALPATSINH NATVARSINH ZALA	
					Darshnaben Govindbhai Chauhan	
					DASHRATHSINH ARJUNSINH PARMAR	
					DEV HITESHKUMAR PATEL	
					DHARATIBEN SHANABHAI THAKOR	
					DHARTIBEN DILIPKUMAR PATEL	
					DHARTIBEN KHIMJIBHAI PARMAR	
					Dhavalkumar Kishorbhai Vaghela	
					Dhruvi Randhirsinh Puvar	

					Dhruvkumar Jayantibhai Talpada	
					DIGVIJAY SINGH DASHRATH SINGH ZALA	
					Dipakkumar Bhagabhai Baraiya	
					DIPAKKUMAR KANJIBHAI PARMAR	
					DIVYABEN ASHOKBHAI GOHEL	
					DIVYANIBEN MAHIPALSINH RATHOD	
					DIVYESH DARSHANKUMAR SUTHAR	
					DURGESHKUMAR ARVINDBHAI PATEL	
					FOZIYABANU MUSTAKMIYA MALEK	
					FULSINH VISHNUJI THAKOR	
					GAUTAMBHAI PARESHBHAI THAKOR	
					GIRVATSINH RANJITSINH CHAUHAN	
					Govindsinh Natvarsinh Chavda	
					HARSHADKUMAR MOHANBHAI MACHHI	
					Harshkumar Chetanbhai Patel	
					HARSHVARDHANSINH GANPATSINH PARMAR	
					HASMUKHBHAI JUVANSINH DABHI	
					HEMANGIBEN RAJESHBHAI PRAJAPATI	
					HIMALAYKUMAR VITHTHALBHAI TALPADA	
					HINALBEN VIKRAMBHAI ZALA	
					HIRALBEN ASHOKBHAI PARMAR	
					Hirenkumar Rameshbhai Sodha	
					HITESHKUMAR MAHENDRASINH CHAUHAN	
					JAGADISHKUMAR RAJESHBHAI RATHOD	
					JAIMEEN VINODKUMAR DHOBI	
					JAVEDBHAI AADAMBHAI VHORA	
					JAYDEEPSINH SURESHBHAI CHAUHAN	
					JAYDIPSINH NARENDRASINH SOLANKI	
					JAYENDRAKUMAR BHARATBHAI TALPADA	
					JAYPALSINH BACHUBHAI CHAUHAN	
					JITENDRAKUMAR BALVANTSINH CHAUHAN	
					JITENDRASINH JABARSINH ZALA	
					KALPESHBHAI BABUBHAI SOLANKI	

					Karankumar Jashbhai Thakor	
					KEVALKUMAR MAFATBHAI PARMAR	
					KHUSHBOOBEN GOPALSINH PARMAR	
					KIRTANSINH RAMSINH SOLANKI	
					Kishan Ramsinh Zala	
					KISHANKUMAR DILIPSINH PARMAR	
					KRINABEN NAVINDRABHAI RATHAVA	
					KRISHNABEN DILIPSINH SOLANKI	
					MAHAMMAD ARKAN SAFI MAHAMMAD MALEK	
					MAHAMMADFAIJAN LIYAKATALI SAIYAD	
					MAHAMMADRAFIK ABDULKARIM KHALIFA	
					MAHENDRAKUMAR RAMESHBHAI SODHA PARMAR	
					MAHESHWARI DINESHBHAI MAKWANA	
					MAHIPALSINH MAHENDRABHAI PARMAR	
					MAHIRHUSEN NAJIRHUSEN SHEKH	
					MANSHIBEN RAMESHBHAI JADAV	
					MANSIBEN DIPAKBHAI PATEL	
					MATIN NAIM SINDHI	
					MAYURKUMAR JAGABHAI JADAV	
					MIT DEVENDRAKUMAR PARMAR	
					MITESHKUMAR PUNAMSINH RATHOD	
					MITIKSHA ARUNSINH PARMAR	
					MITKUMAR BHUPENDRABHAI PATEL	
					MOINMIYA ABDULRAHIM MALEK	
					NANDANIBEN RAJANIKANTBHAI PATEL	
					NAVAJHUSEN SAJIDHUSEN KURESHI	
					NAZNEENBANU ASHRAFKHAN PATHAN	
					NIDHI ASHOKKUMAR PRAJAPATI	
					NIKHATFAEMA ZAKIRALI SAIYAD	
					NILESHKUMAR MAHENDRABHAI PARMAR	
					NIMAY JAGADISHBHAI PATEL	
					Parth Pujabhai Taral	
					PARULBEN RANGITSINH PARMAR	

					PRAFULKUMAR BUDHABHAI PARMAR	
					Pragnesh Jagdishbhai Rabari	
					PREKSHABEN MAHENDRABHAI PATEL	
					PRERNABEN SHAILESHBHAI BHOI	
					RAHUL RAJNIKANT PATEL	
					RAHULKUMAR ARVINDBHAI RATHOD	
					Rahulkumar Dineshbhai Prajapati	
					Rahulkumar Vikramsinh Solanki	
					RAJESHKUMAR BHUPATBHAI VAGHELA	
					RANJEETBHAI BHIKHABHAI CHAVDA	
					RAVI DHARMENDRAKUMAR PATEL	
					RAVIKUMAR VIJAYBHAI SHAH	
					RAVINDRAKUMAR KAUSHIKBHAI JADAV	
					Ravirajsinh Hitendrasinh Bihola	
					RITESHKUMAR NILESHBHAI BHOI	
					RITIKABEN FATESINH RATHOD	
					ROHITKUMAR VINUBHAI PARMAR	
					RUHI BHAVINKUMAR PATEL	
					RUSHALI NIKUNJKUMAR PANDYA	
					SADIYAFATEMA ZAKIRALI SAIYAD	
					SAHDEVKUMAR GANPATBHAI PARMAR	
					Sandipkumar Mahendrabhai Parmar	
					SEEMABEN KANUBHAI RABARI	
					SHANAFATIMA SAKIRALI SAIYAD	
					SHEEMABANU SABBIRALI SAIYAD	
					SHIVANI KAMLESHBHAI PATEL	
					SHREEPAL JABRAJI PUROHIT	
					SHREYA AJAYKUMAR DESAI	
					SUHANABANU ABDULKHAN PATHAN	
					SWETABEN MAHENDRASINH CHAUHAN	
					TARUNKUMAR PRAVINSINH ZALA	
					TEJALBEN RAMESHBHAI PATELIYA	
					TEJASH MUKESHBHAI DALWADI	

					Tejash Rajnikant Patel	
					Tofikkhan Usmankhan Pathan	
					Upendrasinh Jayendrasinh Vadher	
					VANRAJSINH GUNVANTSINH PARMAR	
					VASANTKUMAR GOVINDBHAI PARMAR	
					VASIMAHEMAD NAJIRMHAMMAD MALEK	
					VIDHIBEN DEVENDRAKUMAR SHAH	
					VIJAYKUMAR BALVANTSINH PARMAR	
					VIRBHADRASINH AJITSINH PARMAR	
					VIRENDRAKUMAR JASHUBHAI VAGHELA	
					VISHALKUMAR RAJNIBHAI CHAUHAN	
					Vivek Naineshbhai Patel	
					VRAJ HARSHADBHAI PATEL	
					YAGNESHBHAI RAMABHAI BARAIYA	
					YOGESHKUMAR BABUBHAI PARMAR	
					HITESHKUMAR TARUNKUMAR SODHA	
					URVISHKUMAR BHUPENDRASINH PARMAR	
					ANKIT PARESHBHAI RANA	
					SUNILKUMAR MAHENDRABHAI MAHERA	
					UMANGKUMAR NARENDRABHAI VALA	
					SMITKUMAR GOPALBHAI RABARI	
					SUNILKUMAR M. THAKOR	
Bachelor of Science	B.Sc. Semester - V	Chemistry	US05CCHE25	2020-21	ABHIJIT KARANSINH SOLANKI	
	B.Sc. Semester - VI	Chemistry	US06CCHE25	2020-21	AKASHKUMAR MAHENDRABHAI MACWANA	
					ALHAZMAHAMMAD JAHIRMIYA MALEK	
					ALPESHKUMAR KHENGARBHAI BHARVAD	
					ARJUNSINH MANHARBHAI SOLANKI	
					ARJUNSINH PRUTHVISINH ZALA	
					ASALAMHUSEN RAJAKHUSEN BELIM	
					ASHISHKUMAR LALLUBHAI PARMAR	
					ASHVINKUMAR BHARATSINH CHAVDA	
					ASHVINKUMAR DINESHBHAI RATHOD	
					ASHWINBHAI HARISHBHAI PARMAR	

					BHARATSINH GOMSINH DEVAL	
					BHAVIKABEN PRAKASHCHANDRA PARMAR	
					BHAVINKUMAR SURESHBHAI DABHI	
					CHETAN MUKESHBHAI VAGHELA	
					CHIRAGKUMAR RAMANBHAI SOLANKI	
					DASHRATHBHAI MAVJIBHAI JOSHI	
					DEEP HARESHKUMAR CHAVDA	
					DEEPKUMAR RAJANIBHAI PATEL	
					DEVANG SANJAYKUMAR SHAH	
					DHAVALKUMAR MAHENDRABHAI PANCHAL	
					DHRUV DINESHBHAI PATEL	
					DHRUV SATISHCHANDRA SHAH	
					DHRUVIL LAXMANBHAI PRAJAPATI	
					DHRUVKUMAR PRAHLADBHAI CHAUHAN	
					DIPAKSINH JASHVANTSINH ZALA	
					DIPKUMAR ASHVINBHAI PATEL	
					DIYABEN ANILSINH DODIYA	
					FARHANKHAN FIROJKHAN PATHAN	
					FULDIPSINH PRAVINSINH ZALA	
					GAJPALSINH HARENDRASINH PUWAR	
					GOVINDKUMAR RAMESHBHAI CHARAN	
					GULAMMAIYODIN JAKIRHUSEN GHANCHI	
					GUNJANKUMAR ARVINDLAL PRAJAPATI	
					HARDIKKUMAR DINESHBHAI CHAUHAN	
					HARSH MAHESHKUMAR VALAND	
					HARSHRAJ JAYESHBHAI PATEL	
					HARSHVADANSINH PRAVINSINH CHAVDA	
					HINESHKUMAR NARESHBHAI PARMAR	
					HITENKUMAR SURESHBHAI TALPADA	
					HITESHKUMAR ISHWARBHAI PARMAR	
					HITESHKUMAR KHENGARBHAI BHARVAD	
					INDUBEN JASHVANTSINH PARMAR	
					JAY RAJESHBHAI PRAJAPATI	

					JAYDEEP SHAILESHBHAI JOSHI	
					JAYENDRASINH JASVANTSINH PARMAR	
					JAYKUMAR ASHOKBHAI PRAJAPATI	
					JAYKUMAR GOPALDAS BRAHMKSHATRIYA	
					Jaykumar Mahendrasinh Raj	
					JINALBEN SHAILENDRASINH CHAUHAN	
					JYOTIKABEN DHIRENDRAKUMAR SOLANKI	
					KARTIKSINH BHUPENDRASINH RAULJI	
					KAUSHIKKUMAR AMARISHBHAI DABHI	
					KEVALKUMAR VINODBHAI MAKWANA	
					KHUSHALI MUKESHKUMAR SHAH	
					KRISHNABEN KIRITBHAI GOHEL	
					KULDIPKUMAR ANILBHAI RAVAL	
					MAHESHKUMAR ARJUNSINH CHAVDA	
					MAYANKKUMAR VIPULBHAI BHOI	
					MEGHNABEN INDRAJITSINH SOLANKI	
					MEHULKUMAR DILIPSINH PADHIYAR	
					MEHULKUMAR SANJAYKUMAR THAKOR	
					MILANKUMAR BHARATBHAI PATEL	
					MITKUMAR VIKASBHAI TRIVEDI	
					MO NOFIL SHAIKH	
					NANDAN HITENDRABHAI PATEL	
					NANDINIBEN MANHARBHAI PARMAR	
					NILESHKUMAR RAYSINGBHAI THAKOR	
					NISHABEN GUNVANTBHAI PRAJAPATI	
					NISHITABEN SANJAYBHAI DABGAR	
					PANKAJKUMAR JAGDISHBHAI PARMAR	
					PARULBEN AJITSINH CHAUHAN	
					PARULBEN KESHAVBHAI THAKOR	
					PRAGNESHSINH HARVATSINH MAHIDA	
					PRAHLADBHAI RAJENDRABHAI SOLANKI	
					PRATIKKUMAR SANJAYKUMAR PATEL	
					PRATIKSINH DILIPSINH CHAUHAN	

					PRITIBEN GIRISHKUMAR CHAVDA	
					RAGHUVIRSINH RANGITSINH PARMAR	
					RAJKUMAR SHASHIKANTBHAI PATEL	
					RAJVEERSINH YASHAVANTSINH ZALA	
					RASHMIKABEN ANILBHAI PARMAR	
					RINALBEN BHARATBHAI BHOI	
					RUCHITABEN ASHWINBHAI RANA	
					RUSHIKUMAR SATISHCHANDRA JOSHI	
					RUTVIK NARESHBHAI PATEL	
					SAHILHUSEN GULAMRASUL SHEKH	
					SAMIRSHA HUSENSHA DIVAN	
					SANJAYKUMAR JEENUBHAI PARMAR	
					SANKETKUMAR HITESHBHAI THAKAR	
					SANTUBEN ARJUNSINH DABHI	
					SAYMABANU JAVEDALI SAIYAD	
					SHALINI DHARMENDRASINH MAHIDA	
					SHETALBEN ISHVARBHAI PARMAR	
					SHRADDHABEN KIRANSINH RAULJI	
					SHUBHAM KANUBHAI PRAJAPATI	
					SHYAMKUMAR PRAVINSINH PARMAR	
					SMIT NAIMESHKUMAR PATEL	
					SONALBEN DHARMSINH GOHEL	
					SUNILKUMAR DINESHBHAI CHAUHAN	
					SURESHKUMAR PRAVINSINH PARMAR	
					TIRTHKUMAR NAINESHBHAI PATEL	
					TRUSHNABEN MANOJKUMAR DABHI	
					TUSHARKUMAR ARVINDBHAI RAVAL	
					URVASHIBEN DILIPSINH CHAUHAN	
					URVISH NARENDRABHAI PATEL	
					UTSAV KETANKUMAR SHAH	
					VANRAJBHAI JASHUBHAI CHUNARA	
					VIRALBEN BHAILALBHAI MAKWANA	
					VIRALKUMAR KANTIBHAI PARMAR	

					VIRENDRAKUMAR AMRABHAI CHAUHAN	
					VIRENDRASINH HIRAJI SISODIYA	
					Vishal Mukeshbhai Chauhan	
					VISHALKUMAR DINESHBHAI PRAJAPATI	
					VRAJKUMAR RAKESHBHAI PATEL	
					YASH PRAVINBHAI PRAJAPATI	
					YOGESHKUMAR ISHVARBHAI BHOI	
					YUVRAJSINH BHARATSINH ZALA	
					BHARATBHAI BHAGVANBHAI ZALA	
					NIDHIBEN NARENDRABHAI PATEL	
					Rajkumar Satisbhai Patel	
Bachelor of Science	B.Sc. Semester - I	Chemistry	US01CCHE22	2021-22	HARSHKUMAR KANTIBHAI PRAJAPATI	
		Physics	US01CPHY22	2021-22	BHARATSINH DIPSINH SOLANKI	
		Biology	US01CBIO22	2021-22	PRAFULKUMAR GOVINDBHAI PARMAR	
	B.Sc. Semester - II	Chemistry	US02CCHE22	2021-22	MAHARSHI MITESHKUMAR TRIVEDI	
		Physics	US02CPHY22	2021-22	RAHULKUMAR RAMESHBHAI RAVAL	
		Biology	US02CBIO22	2021-22	JAYESHKUMAR NARANBHAI RAVALIYA	
					PREET PRAKASHKUMAR PUROHIT	
					RAVIKUMAR KAMLESHBHAI PRAJAPATI	
					VATSAL PARESHBHAI MAKWANA	
					Sanjaysinh Natvarsinh Sodhaparmar	
					HARDIK HARSHADBHAI DABHI	
					PRIYAKUMARI VIKRAMBHAI CHAVDA	
					ITISHABEN RAMJIBHAI BHATT	
					PRADIPSINH SHAILENDRASINH CHAUHAN	
					JAYSHREEBEN PANKAJSINH ZALA	
					DIPAKKUMAR JASHVANTSINH BODANA	
					AJAYKUMAR KIRITSINH PARMAR	
					KRISHNA AMITKUMAR VASAVA	
					JAYPRATAPSINH FATESINH RATHOD	
					BHAVY JIGNESHKUMAR PATEL	
					LUVKUMAR BHARATSINH CHAUHAN	
					PATEL DRASHTI SANDIPKUMAR	

					MEHULKUMAR HIMMATSINH DAHBHI	
					NEEL RAKESHKUMAR RAMI	
					DARSHANSINH DILIPSINH RAULJI	
					PRIT RAJESHKUMAR PATEL	
					Deep Mukeshkumar Shah	
					MEET AJAYKUMAR DESAI	
					NILAYKUMAR JAYENDRABHAI PRAJAPATI	
					GAUTAMKUMAR MAHENDRABHAI GADHAVI	
					CHETANKUMAR ANOPBHAI PARMAR	
					TULSI RAJESHKUMAR RATHOD	
					NAYANKUMAR JATINBHAI DABHI	
					ANKUSHKUMAR KANUBHAI SOLANKI	
					NARESHKUMAR MAHESHBHAI PARMAR	
					JITUBHAI KIRITBHAI RATHOD	
					DINESHKUMAR NARESHBHAI RATHOD	
					HARSHADKUMAR PRAVINBHAI PARMAR	
					DHARAMESHKUMAR SANJAYSINH PARMAR	
					NIKITABEN KIRITKUMAR RATHOD	
					RAZINBANU SIRAJUDDIN KAZI	
					JAYDEEPKUMAR PRAVINBHAI CHAUHAN	
					Jems bhai Jastinbhai Khristi	
					NAJIRABANU Abdulkhan PATHAN	
					KRTANKUMAR RANJITSINH DABHI	
					PRAKASHKUMAR BHARATBHAI SOLANKI	
					RAJANKUMAR VIJAYSINH PARMAR	
					TUSHARKUMAR NARENDRASINH DABHI	
					MOHAMMADREHANRAZA MOHAMMADMAKBOLHUSEN SHAIKH	
					MITESHKUMAR SHAILESHBHAI BHOI	
					RAJKUMAR VANRAJSINH RATHOD	
					ROSHNIBEN KAMLESHBHAI CHAUHAN	
					DHARMESHKUMAR DALPATSINH CHAUHAN	
					AYUSHBHA PANKAJSINH PARMAR	

					KUNJKUMAR VITHTHALBHAI BHAGORA	
					VISHALKUMAR RAMESHBHAI PARMAR	
					BHAVESH RAJESHKUMAR PARMAR	
					MAHERA MINESHKUMAR ABHESING	
					SANDIPKUMAR ANOPSINH CHAUHAN	
					UNNATI HASMUKHBHAI VANZARA	
					BALVANTSINH CHHATRASINH DABHI	
					PRACHIBEN VISHNUBHAI PATEL	
					STUTIBEN NIMESHKUMAR JOSHI	
					PANKAJKUMAR SATENDRABHAI CHAVDA	
					Ritik kumar Shantilal Khristi	
					NAISHADHKUMAR MUKESHBHAI BARIA	
					AKASH NIRANJANBHAI PARMAR	
					ANKITABEN ISHWARBHAI BHOI	
					HARDIKKUMAR DHARMENDRABHAI CHAUHAN	
					KARANKUMAR BACHUBHAI PARMAR	
					RUTURAJSINH VIKRAMSINH ZALA	
					KARANSINH NATVARSINH RATHOD	
					NIKITABEN MANESHBHAI BARIA	
					DIVYABEN JAYESHKUMAR ZALA	
					BHUPENDRASINH HIMMATSINH VAGHELA	
					MAHARSHKUMAR DINESHBHAI PARMAR	
					BANSILAL PRAVINSINH PARMAR	
					ASHITIBEN SHANTILAL PATEL	
					ASHWINBHAI RAMESHBHAI RATHOD	
					JANKI RAJESHBHAI VAGHELA	
					JAIMINABEN BHUPENDRASINH CHAUHAN	
					NAGINKUMAR LAXMANBHAI ZALA	
					JAYANTKUMAR NATVARSINH VAGHELA	
					SANDHYABEN DILIPKUMAR CHAUHAN	
					YASHPALSINH BHALSINH PARMAR	
					BHAVESHKUMAR FATESINH SODHA	
					SAGARBHAI NILESHBHAI BHATIYA	

					RONAK PANKAJKUMAR PATEL	
					BHUPENDRASINH AMARSINH PARMAR	
					YOGESHKUMAR RAMESHBHAI RATHOD	
					ASHISHBHAI LALABHAI VANKAR	
					DIVYABEN JAYDIPSINH CHAUHAN	
					JANKIBEN DESAIBHAI BAROT	
					YOGENDRAKUMAR JASHVANTSINH RATHOD	
					MEETKUMAR NIRMALBHAI PATEL	
					ARVINDSINH VINODSINH THAKOR	
					SMITKUMAR ASHWINSINH SOLANKI	
					PRAVINSINH PRITHVISINH PARMAR	
					JAYRAJSINH RANJITSINH SODHAPARMAR	
					AARTIBEN ASHOKBHAI PARMAR	
					ANSH SANJAYKUMAR MAKWANA	
					JANAKIBEN MANSINH PARMAR	
					GOPALKUMAR RAYJIBHAI SODHA	
					RAVINDRASINH RAMESHBHAI CHAVDA	
					VARSHA RAJESH RAVAL	
					AASHISHKUMAR JAYESHBHAI RATHOD	
					SHAKSHI PRAVINKUMAR PATEL	
					MAHAMMAD TANVIR USMANGANI MALEK	
					VIRENDRAKUMAR HARSHADBHAI CHAUHAN	
					CHIRAG CHHAGANBHAI BHOI	
					JIMESHKUMAR HARSHADBHAI PATEL	
					Roshanbhai Rajeshbhai Parmar	
					JEETENDRAKUMAR VIJAYSINH RATHOD	
					MEHULKUMAR CHHATRASINH BHALIYA	
					VIRENDRASINH RANGITSINH PARMAR	
					PANKAJ KUMAR NAHENDRASINH PARMAR	
					KUNJKUMAR PRAVINBHAI PATEL	
					ASHVINBHAI DILIPBHAI RATHOD	
					BIMALKUMAR RAMESHBHAI SOLANKI	
					RAKESHKUMAR AJMELBHAI ZALA	

					ARJUNBHAI PARUSINH BARAIYA	
					UDAY ALPESHKUMAR PRAJAPATI	
					SAGARKUMAR VIJAYSINH SODHAPARMAR	
					Nikhilkumar Arvindbhai Gohil	
					HIMANSHU LALSINH SODHA	
					VIJAYKUMAR MAHESHBHAI PARMAR	
					HIMANSHUKUMAR BHAVSINH DABHI	
					AJITSINH RAJENDRASINH PARMAR	
					DIPAKKUMAR UMEDBHAI DABHI	
					SOAEB AKHTAR JENUDDIN SAIYED	
Bachelor of Science	B.Sc. Semester - III	Chemistry	US03CCHE23	2021-22	Aaraynkumar Maheshbhai Macwan	
		Physics	US03CPHY23	2021-22	AKSHAYKUMAR ASHVINBHAI KHANT	
	B.Sc. Semester - IV	Chemistry	US04CCHE23	2021-22	AKSHAYKUMAR MAHESHBHAI RATHOD	
		Physics	US04CPHY23	2021-22	ANKESHKUMAR UDESINH BODANA	
					ANKURKUMAR VIKRAMSINH PARMAR	
					ARTIBEN DILIPKUMAR RATHOD	
					Ashishkumar Shanabhai Prajapati	
					ASHISHKUMAR VIKRAMSINH PARMAR	
					BHAVINKUMAR RAJENDRASINH CHAVDA	
					BINDUBEN DHARMSINH GOHEL	
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					Chetanbhai Navghanbhai Bharwad	
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					Jaydeep Tusharbhai Sojitra	
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					JAYSHREEBEN RAJESHBHAI PARMAR	
					JAYSHRIBEN NATVARSINH RATHOD	
					Jigarkumar Rajeshbhai Devpura	
					KAMALESH BIJALBHAI BHARAVAD	
					KAMLESHKUMAR FATESINH PARMAR	
					Kanaksinh Ramasinh Parmar	
					KARANSINH JAGDEVSINH PARMAR	
					KAUSHIKBHAI NARENDRABHAI PARMAR	
					KAUSHIKKUMAR MAHENDRASINH DABHI	
					KISHANKUMAR PRAVINSINH PARMAR	
					Kishankumar Vinodbhai Machhi	
					KRISHNABEN VIJAYSINH PARMAR	
					KRUPALIBEN VANRAJSINH RAJPARMAR	
					KULDIPSINH KIRITSINH KHANT	
					MAHAMMAD RAHUL ABDULRAZAK SHAIKH	
					MANOJKUMAR ISHVARBHAI GOHIL	
					Meetkumar Chandreshbhai Khorasiya	
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					Nachiket Gautamkumar Brahmbhatt	
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					PARTH PRAVINBHAI TALPADA	
					Parthiv Jigneshkumar Talapada	
					PRAGNESHKUMAR MOTIBHAI MAHERA	
					PRITESHKUMAR BHARATBHAI MACHHI	
					PRUTHVIKA VIJAYKUMAR PATEL	
					RAGINIBEN DHARMENDRABHAI RATHOD	
					Rahulbhai Sureshbhai Chavda	
					Rajkumar Vishrambhai Machhi	
					RAJVIRSINH VAJENDRASINH MAHIDA	
					RITULKUMAR VIKRAMBHAI SODHA	
					RONAKKUMAR VIJAYSINH SODHA PARMAR	
					RONAKSINH TAKHATSINH ZALA	
					SABINABANU NUREHMAD SHAIKH	
					SAGARKUMAR SOMABHAI MEHRA	
					Sanjaybhai Ranjeetsinh Dabhi	
					Sejalben Ajaybhai Chauhan	
					SHAHIDRAJA SADARUKHAN PATHAN	
					SHAILESHKUMAR PARBATSINH DABHI	
					SHIVAM SANJAYBHAI RANA	
					Shrikant Ravajibhai Zala	
					SIDDHARTH ALKESHBHAI PATEL	
					Sonu Lakjaari Gupta	
					SUMITKUMAR TAKHATSINH PARMAR	
					SURPALSINH TAKHATSINH GOHIL	
					TEJALBEN RAJENDRASINH RATHOD	
					TILAKKUMAR RAMESHBHAI RAVAL	
					Tisha Jigneshkumar Patel	
					TULSIKUMAR ASHOKBHAI THAKOR	
					Urmilaben Sureshbhai Chavda	
					VAISHALIBEN ISHWARSINH VAGHELA	

					VEDANG JITENDRAKUMAR JOSHI	
					VIDHI HEMALKUMAR DESAI	
					Vijaybhai Dhirubhai Dabhi	
					VISHALKUMAR CHANDRAKANTBHAI MACHHI	
					VISHALKUMAR MUKESHBHAI GOHEL	
					VISHNUBHAI BHAGAVANSINH ZALA	
					VRAJ MINESHBHAI PATEL	
					VRUNDA JITENDRAKUMAR PATEL	
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					YUKTI DIPTESHKUMAR UPADHYAY	
					YUVRAJSINH RANGITSINH PARMAR	
Bachelor of Science	B.Sc. Semester - V	Chemistry	US05CCHE25	2021-22	AAYUSHIBEN PARESHKUMAR DALWADI	
	B.Sc. Semester - VI	Chemistry	US06CCHE25	2021-22	AESHABEN ARVINDBHAI PATEL	
					AJAYKUMAR KISHORBHAI PARMAR	
					AKSHRSINH GUNVANTBHAI BODANA	
					Alay Kirankumar Sheth	
					AMITABEN KANTILAL PARMAR	
					ANILKUMAR JAYESHBHAI PATEL	
					Aniruddhsinh Pravinsinh Dabhi	
					ANJALIBEN NANSINH PARMAR	
					ANJALIBEN RAMESHBHAI BHOI	
					ANKIT PARESHBHAI RANA	
					ARJUNSINH CHHATRASINH PARMAR	
					ASTHA DILIPKUMAR JAYSWAL	
					AXAYKUMAR AJITSINH PARMAR	
					Bhagyeshkumar Vinodbhai Gadhvi	
					BHARATSINH VINUBHAI THAKOR	
					CHETANKUMAR RAMSINH DABHI	
					Chintankumar Gopalbhai Patel	
					Dabhi Pradip Madhusinh	
					DALPATSINH NATVARSINH ZALA	
					Darshnaben Govindbhai Chauhan	
					DASHRATHSINH ARJUNSINH PARMAR	

					DEV HITESHKUMAR PATEL	
					DHARATIBEN SHANABHAI THAKOR	
					DHARTIBEN DILIPKUMAR PATEL	
					DHARTIBEN KHIMJIBHAI PARMAR	
					Dhavalkumar Kishorbhai Vaghela	
					Dhruvi Randhirsinh Puvar	
					Dhruvkumar Jayantibhai Talpada	
					DIGVIJAY SINGH DASHRATH SINGH ZALA	
					Dipakkumar Bhagabhai Baraiya	
					DIPAKKUMAR KANJIBHAI PARMAR	
					DIVYABEN ASHOKBHAI GOHEL	
					DIVYANIBEN MAHIPALSINH RATHOD	
					DIVYESH DARSHANKUMAR SUTHAR	
					DURGESHKUMAR ARVINDBHAI PATEL	
					FOZIYABANU MUSTAKMIYA MALEK	
					FULSINH VISHNUJI THAKOR	
					GAUTAMBHAI PARESHBHAI THAKOR	
					GIRVATSINH RANJITSINH CHAUHAN	
					Govindsinh Natvarsinh Chavda	
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					Harshkumar Chetanbhai Patel	
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					HINALBEN VIKRAMBHAI ZALA	
					HIRALBEN ASHOKBHAI PARMAR	
					Hirenkumar Rameshbhai Sodha	
					HITESHKUMAR MAHENDRASINH CHAUHAN	
					HITESHKUMAR TARUNKUMAR SODHA	
					JAGADISHKUMAR RAJESHBHAI RATHOD	
					JAIMEEN VINODKUMAR DHOBI	
					JAVEDBHAI AADAMBHAI VHORA	

					JAYDEEPSINH SURESHBHAI CHAUHAN	
					JAYDIPSINH NARENDRASINH SOLANKI	
					JAYENDRAKUMAR BHARATBHAI TALPADA	
					JAYPALSINH BACHUBHAI CHAUHAN	
					JITENDRAKUMAR BALVANTSINH CHAUHAN	
					JITENDRASINH JABARSINH ZALA	
					KALPESHBHAI BABUBHAI SOLANKI	
					KEVALKUMAR MAFATBHAI PARMAR	
					KHUSHBOOBEN GOPALSINH PARMAR	
					KIRTANSINH RAMSINH SOLANKI	
					Kishan Ramsinh Zala	
					KISHANKUMAR DILIPSINH PARMAR	
					KRINABEN NAVINDRABHAI RATHAVA	
					KRISHNABEN DILIPSINH SOLANKI	
					MAHAMMAD ARKAN SAFI MAHAMMAD MALEK	
					MAHAMMADFAIJAN LIYAKATALI SAIYAD	
					MAHAMMADRAFIK ABDULKARIM KHALIFA	
					MAHENDRAKUMAR RAMESHBHAI SODHA PARMAR	
					MAHESHWARI DINESHBHAI MAKWANA	
					MAHIPALSINH MAHENDRABHAI PARMAR	
					MAHIRHUSEN NAJIRHUSEN SHEKH	
					MANSHIBEN RAMESHBHAI JADAV	
					MANSIBEN DIPAKBHAI PATEL	
					MATIN NAIM SINDHI	
					MAYURKUMAR JAGABHAI JADAV	
					Meet narendrasinh Bhojani	
					MIT DEVENDRAKUMAR PARMAR	
					MITESHKUMAR PUNAMSINH RATHOD	
					MITIKSHA ARUNSINH PARMAR	
					MITKUMAR BHUPENDRABHAI PATEL	
					MOINMIYA ABDULRAHIM MALEK	
					NANDANIBEN RAJANIKANTBHAI PATEL	
					NAVAJHUSEN SAJIDHUSEN KURESHI	

					NAZNEENBANU ASHRAFKHAN PATHAN	
					NIDHI ASHOKKUMAR PRAJAPATI	
					NIKHATFAEMA ZAKIRALI SAIYAD	
					NILESHKUMAR MAHENDRABHAI PARMAR	
					NIMAY JAGADISHBHAI PATEL	
					Parth Pujabhai Taral	
					PARULBEN RANGITSINH PARMAR	
					PRAFULKUMAR BUDHABHAI PARMAR	
					Pragnesh Jagdishbhai Rabari	
					PREKSHABEN MAHENDRABHAI PATEL	
					PRERNABEN SHAILESHBHAI BHOI	
					RAHUL RAJNIKANT PATEL	
					RAHULKUMAR ARVINDBHAI RATHOD	
					Rahulkumar Dineshbhai Prajapati	
					Rahulkumar Vikramsinh Solanki	
					RAHULSINH PRAVINSINH SODHAPARMAR	
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					RANJEETBHAI BHIKHABHAI CHAVDA	
					RAVI DHARMENDRAKUMAR PATEL	
					RAVIKUMAR VIJAYBHAI SHAH	
					RAVINDRAKUMAR KAUSHIKBHAI JADAV	
					Ravirajsinh Hitendrasinh Bihola	
					RITESHKUMAR NILESHBHAI BHOI	
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					RUHI BHAVINKUMAR PATEL	
					RUSHALI NIKUNJKUMAR PANDYA	
					SADIYAFATEMA ZAKIRALI SAIYAD	
					SAHDEVKUMAR GANPATBHAI PARMAR	
					Sandipkumar Mahendrabhai Parmar	
					SEEMABEN KANUBHAI RABARI	
					SHANAFATIMA SAKIRALI SAIYAD	
					SHEEMABANU SABBIRALI SAIYAD	

					SHIVANI KAMLESHBHAI PATEL	
					SHREEPAL JABRAJI PUROHIT	
					SHREYA AJAYKUMAR DESAI	
					SMITKUMAR GOPALBHAI RABARI	
					SUHANABANU ABDULKHAN PATHAN	
					SUNILKUMAR MADHAVSINH DABHI	
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					TARUNKUMAR PRAVINSINH ZALA	
					TEJALBEN RAMESHBHAI PATELIYA	
					TEJASH MUKESHBHAI DALWADI	
					Tejash Rajnikant Patel	
					Tofikkhan Usmankhan Pathan	
					UMANGKUMAR NARENDRABHAI VALA	
					Upendrasinh Jayendrasinh Vadher	
					URVISHKUMAR BHUPENDRASINH PARMAR	
					VANRAJSINH GUNVANTSINH PARMAR	
					VASANTKUMAR GOVINDBHAI PARMAR	
					VASIMAHEMAD NAJIRMHAMMAD MALEK	
					VIDHIBEN DEVENDRAKUMAR SHAH	
					VIJAYKUMAR BALVANTSINH PARMAR	
					Vipul Pravinbhai Rohit	
					VIRBHADRASINH AJITSINH PARMAR	
					VIRENDRAKUMAR JASHUBHAI VAGHELA	
					VISHALKUMAR RAJNIBHAI CHAUHAN	
					Vivek Naineshbhai Patel	
					VRAJ HARSHADBHAI PATEL	
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					YOGESHKUMAR BABUBHAI PARMAR	
					Yogeshkumar Janaksinh Dabhi	

CERTIFICATE

Name : PANDYA HARSHKUMAR R. *Class:* SY.B.Sc Sem4

Roll No.: 23 *Exam No.:* 1778

Institution BHAVAN'S COLLECTE DAKOR.

This is certified to be the bonafide work of the student in the

CHEMISTRY *Laboratory during the academic*

year 2021 / 2022 .

No of practicals certified 9 *out of* 9 *in the*

subject of CHEMISTRY PRC.

21/03/22

Teacher In-charge

Examiner's Signature

Head of the Chemistry Department
Bhavan's College,
DAKOR

Principal

Date :.....

Institution Rubber Stamp

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☆	Separation of Organic Binary mixture				
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2>	Acid & Base (Benzoic acid & P-nitroaniline)	6	21/12/21		
3>	Acid & Neutral (Cinnamic acid & Napthalene)	10	28/12/21		
4>	Base & Neutral (m-Nitro aniline & m-dinitro benzene)	15	28/12/21		
5>	Base & Neutral (P-nitro aniline & Acitanilene)	28	1/1/22		
6>	Acid & Phenol (Pthelic Acid & α-napthol)	27	1/1/22		
7>	Base & Neutral (O-nitro aniline & P-dichloro benzene)	32	1/1/22		
☆	Gravimetric Analysis				
8>	Barium (Ba) & Barium Sulphate ($BaSO_4$)	39	17/1/22		
9>	Iron (Fe) & Ferric oxide (Fe_2O_3)	42	17/1/22		

✡ Practical- I ✡

Expt. No <1>

20/12/21

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AIM: Separation of organic Binary mixture.

1> **Acid:**

Mixture + $NaHCO_3$ → CO_2 eff. $\xrightarrow{\text{Filter}}$ Acid $\xrightarrow[\text{dil HCl}]{\text{reprecitates}}$ Acid confirmed

2> **Phenol:**

Residue + 10% NaOH → If it is dissolve $\xrightarrow[\text{with dil HCl}]{\text{reprepitate}}$ phenol is confirmed

Phenol is present

A> **Preliminary test:**

	Test	observation	Inference
-	State	solid	Generally acids, phenol, amines, carbohydrates etc may be present.
-	Colour		
-	Odour	Pleasent	Esters, ethers, some alcohols etc may be present.
-	Heating on a Porcelain Piece	Burns with sooty flame	Aromatic compounds, chloroform, chlorol, hydrate etc.

Date _____

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	Beilstein's test	substance not burns with green flame	Halogen compound, urea is absent.
-	solubility test Mix+distiled water	Substance soluble in hot or cold water	Alcohol, carbohydrates is present.

B> Detection of elements &

→ Lassaign's test & substance is fused with sodium metal in fusion tube and extracted with water and performing the following test with filtrate.

-	Filtrate + I_3 test tube freshly prepared sut-urated $FeSO_4$ solution, heat it boil, cool it & to 3 drops of $FeCl_3$ + dil HCl in excess and shake well	Blue or green ppts or colouration not obtained	Nitrogen is absent.
-	Filtrate + sodium nitro-prusside	Brillint Purple colour or violet colouration	Sulphur is absent.
-	Filtrate + 1ml conc. HNO_3 boil and cool + $AgNO_3$	White or yelloco ppts not obtained	Helogen (Cl^-, Br^-, I^-) are absent.

Date

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- Filtrate + $CHCl_3$ + Cl_2 water	violet layer not obt.	I^- is absent
	Brown layer not obt.	Br^- is absent
	colourless layer not obt.	Cl^- is absent.

C> Conclusion:-

- The substance contains C, H with oxygen as an elements.

D> Detection of functional group.

-> Acids (-COOH) & (Solid)

- Solution of the sub in H_2O or alchohol + phenol phtalein (2 drops) + very dil NaOH solution (drop by drop).	permanent pink colour is obtained with sharp end point in the be giving	-COOH group is present.
- Substance + Saturated solution of $NaHCO_3$	CO_2 gas evolved and rppts by dil HCl solution.	-COOH group is present.

-> Phenols (-OH):-

- Dissolve the substance in alchohol + neutral $FeCl_3$ solution	Green, blue or violet colouration	-OH phenolic group is present.

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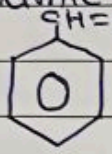
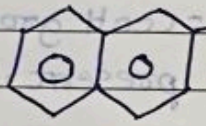
- Azo dye formation	orange or dark red ppts	-OH phenolic group is present.

E> M.P and B.P &

-> Aromatic acids & Phenols

- Compound and formula	confirmatory test	M.P.
Cinnamic acid 	substance + neutral $FeCl_3$ gives yellow ppts.	132°C
B-Napthol 	substance + alcoholic KOH + $CHCl_3$ heat → blue colour	122°C

F> Confirmatory test &

-> Acids &

-		
Sub + extremly dil $KMnO_4$, shake well	Pink colour disappear immediately and give brown colouration	Cinnamic Acid confirmed

-> Phenols &

-		
Sub + NaOH + Cu-foil + CCl_4 heat	No blue coloration	B-Napthol confirmed
Sub + KOH solution + $CHCl_3$ heat	give blue colour	B-napthol confirmed.

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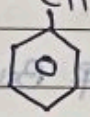
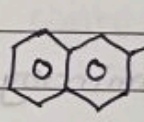
CT) Final conclusion &

		Component I	Component II
-	chemical nature	Acid	Phenol
-	Functional group	CH=CHCOOH	-OH
-	Elements of the compound	-	-
-	Structural Formula		
-	Name of the compound	Cynnamic acid	B-napthol.
-	M.P / B.P	132°c	122°c

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★ Practical- 2 ★

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Expt. No. 2

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AIM:- Separation of organic Binary Mixture.

1) Acid :-

Mixture + $NaHCO_3$ → CO_2 eff $\xrightarrow{\text{Filter}}$ Acid $\xrightarrow[\text{dil HCl}]{\text{repreci tate with}}$ Acid confirmed

2) Phenol :-

Residue + 10% NaOH → If it is dissolve $\xrightarrow[\text{with dil HCl}]{\text{not rppted}}$ Phenol is absent.
Phenol is present

3) Base :-

Residue + dil. HCl → If it is soluble $\xrightarrow[\text{dil NaOH}]{\text{rppted with}}$ Base is confirmed.

A) Preliminary test :- Acid & Base

	Test	observation	Inference
-	State	solid	acid, phenols, amines, carbohydrates etc may be present
-	colour	Yellow	Nitro compounds m and p nitro anilines may be present.
-	Odour	Pleasent	Esters, ethers, some alcohols etc. may be present.
-	heating on a Porcelain piece	Irritating odour with coughing	Benzoic acid is present
-	Beilstein's test	green flame Sub not burns with	Halogen compound is absent Urea is absent

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- Solubility test Mix + distilled water	Sub not soluble in hot or cold water	Alcohols, carbohydrates is absent.
	Blue litmus convert into red congo red convert into blue	Acidic compound is present.

B) Detection of elements :-

-> Lassaigne's test :- Substance is fused with sodium metal in fusion tube and extracted with water and performing the following test with filtrate

- Filtrate + 1/3 T.T Freshly prepared saturated $FeSO_4$ solution, heat it to boil cool + 2 to 3 drops of $FeCl_3$ + dil HCl in excess and shake well	Blue or green ppts or colouration obtained.	Nitrogen is present.
- Filtrate + sodium nitroprusside	Purple or violet colouration not obtained.	Sulphur is absent

C) Conclusion :- The substance contains C, H, N with oxygen as an elements

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D> Detection of Functional groups

-> Acid (-COOH)

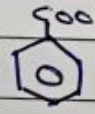
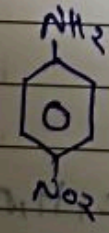
Sub + saturated solution of $NaHCO_3$	CO_2 gas evolved and ppt by dil HCl solution	-COOH group is present

-> Base (Nitro aniline ($-NO_2$ & $-NH_2$ together))

- Sub + NaOH solution	Yellow colouration	$-NO_2$ group present
- Dry test	Red dye	$-NH_2$ group present
- Nulliken's test	Black ppts	$-NO_2$ group present

E> M.P & B.P

Aromatic acid & Basic compound

- Compound & Formula	Test	M.P
Benzoic acid 	Buff colour ppts with neutral $FeCl_3$	122°C
- P-nitroaniline (Fast yellow) 	Sub + zn dus + dil HCl shake for 5 min and Filter + water + dil NaOH. In other TT take phenol and sm acetate. Mix bot. TT and then add Sodium hypochloride sol. shake well gave deep blue colur	147°C M.P

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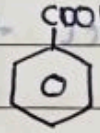
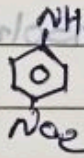
F) Confirmatory test :-

-	Sub + methanol + conc H_2SO_4	Fruity smell of methyl benzoate	Benzoic acid is confirmed.

G) Final conclusion :-

	Component I	Component II
Chemical nature	Acid	Base
Fuctional group	-COOH	$-NH_2$ & NO_2
Elements of compound		
Structure Formula		
Name of the compound	Benzoic acid	P-nitroaniline
M.P / B.P	122°C	147°C

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✱ Practical-3 ✱

Expt. No. 3 Page No. 10

AIM: Separation of organic Binary Mixture.

1) acid &
Mix + $NaHCO_3$ → Eff $\xrightarrow{CO_2\ Filter}$ Acid $\xrightarrow{\text{If it ppted with dil HCl}}$ Acid confirmed

2) Phenol &
Residue + 10% NaOH → If it dissolve $\xrightarrow{\text{not ppted with}}$ Phenol is
Phenol is Present dil HCl absent.

3) Base &
Residue + dil HCl → If it is $\xrightarrow{\text{not ppted with}}$ Base is
Soluble dil NaOH absent.

4) Neutral &
IF Redue Insoluble in dil HCl then Neutral is Present.

A] Preliminary test :- Acid & Neutral

	Test	observation	Inference
-	State	Solid	Generally acids, Phenols, amines, carbohydrates etc may be present.
-	Colour	colourless	Carboxylic acid, aldehydes ketones, carbohydrats, hydrocarbones, amides etc may be present.

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- odour	Phenolic	Phenols and naphol is present.
- Heating on a porcelain piece	sublimation	naphthalene, Phthalic acid, Succinic acid may be present.
- Beilstein's test	sub burns with green flame not obtained	Halogen compound is absent. urea is absent.
- Solubility test Mix + dist water	substance soluble in hot or cold water	Alcohol, carbohydrates is present.

B) Detection of elements &

- Lassaign's test & Substance is fused with sodium metal in fusion tube and ~~extracted~~ with water and performing the following test with Filtrate.

- Filtrate + 1/3 T.T scture ted $FeSO_4$ sol, heat it to boil + 2 to 3 drops of $FeCl_3$ + dil HCl in ekess and shake well	not obtained Blue or green ppts or colouration	Nitrogen is absent.

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- Filter + sodium nitro Praside	not obtained Brilliant Purple colour or violet colouration	Sulphur is absent.
- Filter + 1ml conc HNO_3 boil and cool + $AgNO_3$	White or yellow PPts not obtained	Halogen are absent.
- Filtered + $CHCl_3 + Cl_2$ water	Violet layer not obt Brown layer not obt colourless layer not obt	I^- is absent Br^- is absent Cl^- is absent

C) Conclusion :-

- The substance contain C,H with oxygen as an elements

D) Detection of Functional groups :-

- Acids (-COOH) : (solid)

- Solution of the sub in H_2O or alchol + phenolphthelein + dil NaOH solution	permement pink colour is obtained with Sharp end point in beginning	-COOH group is present
- Sub + Saturated solution of $NaHCO_3$	CO_2 gas evoled and ppt by dil HCl solution	-COOH grop is present.

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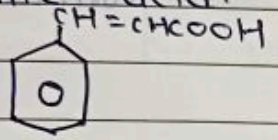
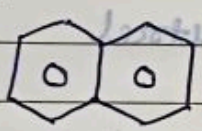
-> Neutral compound (nitrogen absent)

- A substance not give any positive reactions in test so hydrocarbon in present.

E> M.P / B.P & Aromatic acid & Neutral compound.

compound and formula	M.P.
- Cinnamic acid. 	132°C
- Naphthalene 	80°C

F> Confirmatory test:-

- Acid : Cynnamic acid

- Sub + extremly dilute $KMnO_4$ shake it	Pink colour disappear immediately and give brown colouration	Cinnamic acid is confirmed.
- Acid + conc H_2SO_4	Greenish red colouration	cinnamic acid confirmed.

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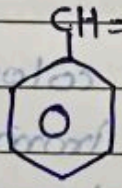
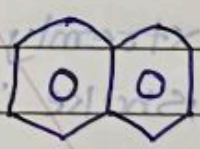
- Neutral compound :- Naphthalene

- Sub + CHCl$_3$, shake well so dissolve then add anhyd- rous AlCl$_3$ powder	green colouration which turns to blue on standing	Naphthalene is confirmed.
- sub + conc H_2SO_4 + $HgCl_2$ solution heat.	give phthalic acid	Naphthalene is confirmed

Or) Final Conclusion :-

	Component 1	Component 2
- Chemical Nature	Acid	Neutral
- Functional group	CH=CHCOOH	hydrocarbon
- Elements of the compound	C, H, O	C, H, [O]
- Structural Formula		
- Name of the compoud	Cinnamic acid $[C_9H_8O_2]$	Naphthalene $[C_{10}H_8]$
- M.P / B.P	132°C	80°C

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Expt. No. 4 ☆Practical 4☆ 28/12/21

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AIM: Separation of organic Binary mixture.

1) Acid :-

- Mixture + $NaHCO_3$ → no CO_2 effences → Filter → Acid absent → not ppts with dil HCl → Acid is absent.

2) Phenol :-

- Residue + 10% NaOH → If it dissolve → Phenol is present → not ppts with dil HCl → Phenol is absent.

3) Base :-

- Residue + dil HCl → soluble → reppted with dil NaOH → Base is confirmed.

4) Neutral :-

- Mixture + 10% HCl → Residue → Wash the Residue with water and identify as neutral

A) Preliminary test :- Base & Neutral

	Test	observation	Inferences
-	State	Solid	generally acids, phenol, amines carbohydrates etc may be Present.
-			
-	colour	Pale yellow	Nitrobenzene, o-m-p nitrotoluene m-dinitrobenzen may be Present.

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-	Odour	Sweet	Aliphatic halogenated substituted compounds.
-	Heating on a porcelain piece	Burn with non Sooty Flame	Aliphathic compound is present
-	Beilstein's test	Sub. not burns with green Flame	Helogen compound is absent reaction is absent.
-	Solubility test Mixture + distilled water	Sub. soluble in hot or cold water	Alcohols, carbohydrates may be present

B> Detection of elements:

- Lassaigne's test: Substance is fused with Sodium metal in fusion tube and extracted with water and performing the following test with Filtrate.

-	Filtrate + 1/3 T.T Freshly Prepared Saturated $FeSO_4$ cool + 2 to 3 drops of $FeCl_3$ + dil HCl in excess and Shake well	Blue or green PPTS is present	Nitrogen is present
-	Filtrate Sodium Nitroprusside	Brilliant purple colour or violet not Obtained	Sulphur is absent

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C> Conclusion:

- The substance contains C, H, N with oxygen as an elements.

D> Detection of functional groups

- Nitro aniline [$-NO_2$ and $-NH_2$ together] : basic

- Sub + NaOH solution	Yellow colouration	$-NO_2$ group is present.
- Dye test	Red dye	$-NH_2$ group is present.
- mulikan's test	Black PPts	$-NO_2$ group is present.

- Nitro compounds ($-NO_2$) : Neutral

- Colour	Nitro compound are generally yellow in colour	$-NO_2$ group is present.
- Sub + tin foil + conc HCl (excess). Filtere and perform dye test with Filtrate	orang or red dye	$-NO_2$ group is present

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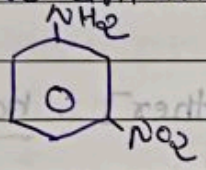
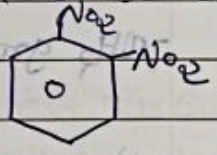
E> M.P / B.P Basic & Neutral compound.

Compound and formula	M.P.
M-nitro aniline (yellow) 	114°C
m-dinitro benzene 	90°C

F> Confirmatory test &

- Base & M-nitro aniline

- Sub + dist. water	Soluble in hot water gives Azo dye test	M-nitro aniline confirmed

- Neutral & m-dinitro benzene

- Sub + acetone + NaOH	gives violet colour	m-dinitro benzene confirmed

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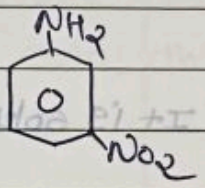
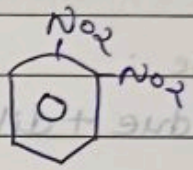
a) Final conclusion :-

	compound 1	compound 2
- chemical nature	Base	Neutral
- functional group	$-NH_2$; $-NO_2$	$-NO_2$
- Element of the compound	C, H, N, O	C, H, N, O
- Structural formula		
- Name of the compound	m-nitro aniline $[C_6H_6N_2O_2]$	m-dinitro benzene $[C_6H_4N_2O_4]$
- M.P / B.P	114°C	90°C

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☆ Practical 5 ☆

Expt. No. 5 Page No. 20

AIM: Separation of organic Binary mixture.

1) **Acid:**

- Mixture + $NaHCO_3$ → CO_2 eff (not obtained) → Filter → Acid → (It is not ppted by dil HCl) Acid is absent.

2) **Phenol:**

- Residue + 10% NaOH → If it dissolve Phenol is present → (not ppted with dil HCl) Phenol is absent

3) **Base:**

Residue + dil HCl → It is soluble → (ppted with dil NaOH) Base is confirmed

4) **Neutral:**

IF Residue insoluble in dil HCl then Neutral is present.

A) **Preliminary test:** Base

	Test	observation	Inference
-	State	solid	acids, phenols, amines, carbohydrates etc may be present.
-	colour	Yellow	Nitro compounds, m- and p-nitro anilines o-nitro phenol, Picric acid etc may be present.
-	odour	not specified	No odour specified

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- Heating on a Porcelain piece	Burns with sooty flame	Aromatic compounds, chloro form, chlorod hydrates etc. may be present
- Beilstein's test	Sub. not burns with green flame	Halogen compound is absent urea is absent.
- Solubility test Mix + distill water	Sub - not soluble in hot or cold water	Alcohols, carbohydrates is absent

B) Detection of elements :-

- Lassaigne's test :- Substance is fused with sodium metal in fusion tube and extracted with water and performing the following test with filtrate.

- Filter + 1/3 test tube freshly prepare Sulphated $FeSO_4$ solution, heat it to boil, cool + 2 to 3 drops of $FeCl_3$ + dil HCl in excess and shake well	Blue or green ppts or colouration obtained	Nitrogen is present.
- Filtrate + Sodium Nitroprusside	Purple or violet colouration not obtained	Sulphur is absent

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C) Conclusion :

- The substance contains C, H, N with oxygen as an elements.

D) Detection of functional group:

- Nitro aniline [$-NO_2$ and $-NH_2$ together] : Basic

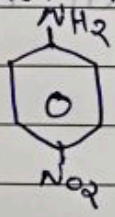
- Sub + NaOH solution	Yellow colouration	$-NO_2$ group is present.
- Dye test	Red dye	$-NH_2$ group Present.

E) M.P / B.P : Basic

- Compound formula — M.P

P-nitroaniline

[Fast Yellow]



147°C

F) Confirmatory test : P-nitroaniline

- Sub + Zn-dust + dil HCl → shake for 5 minitus and filter + water + dil NaOH. In other T.T take phenol and 5 mel water. Mix both test tube and then add Sodium hypochloride solution like well deep blue colour.

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A> Preliminary test :- Nuetral

Test	observation	Inferference
- State	Solid	Generally acids, Phenols amines carbohydrates etc may be present.
- Colour	Colourless	carboxylic acids, aldehydes ketons, carbohydrates, amides similiens may be Present.
- Odour	odourless	not specified
- Heating on a Porceelain piece	Burn with Sooty Flame	Aromatic compounds, chloroform, chloral hydrate etc may be present.
- Beilstein's test	Substance not burn with green flame	Helogen compound absent ureau is absent.
- Solubility test Mexi + distilled water	Substance not Soluble in hot or cold water	Alcohols, carbohydrates is absent.

B> Detection of elements:

- Lassaigne's test : Substance is fused with sodium metal in fusion tube and extracted with water and

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Performing the following test with filtrate.

- Filtrate + 1/3 T.T $FeSO_4$ sol heat, cool + 2+3 drops of $FeCl_3$ + dil HCl	Blue or green ppts obtained	Nitrogen is present.
- Filtrate + Sodium nitroprusside	Purple or violet colour not obtained	Sulphur is absent.
- Filtrate + 1ml conc HNO_3 boil and cool + $AgNO_3$	white or yellow ppts not obtained	Hellogen (Cl^-, Br^-, I^-) is absent.
- Filtrate + $CHCl_3$ + Cl_2 water	violet layer not obe Brown layer not obe colourless not obe	I^- is absent Br^- is absent Cl^- is absent.

c) Conclusion:

- The substance contains C, H, N with oxygen as an elements.

d) Detection of functional groups

- Amilides ($-NHCOCH_3$) : Neutral

- Sub + soda lime in dry T.T and heat it	Ammonia evolved turning turmeric Paper brown	$-NHCOCH_3$ is Present

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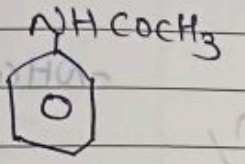
E) M.P / B.P : Neutacel

- Compound and formula	MP.
- Acetanilide 	114°C

F) Confirmatory test :

-			
-	Sub. (White) + dil HCl heat cool and perform dye test	Red dye	Acetanilide is confirmed.

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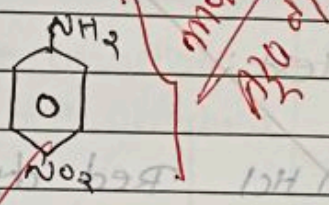
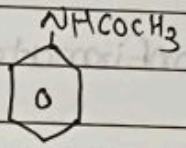
* Final conclusion :-

		compound 1	compound 2
-	Chemical nature	Base	Neutral
-	functional group	$-NO_2$ & NH_2	$-NHCOCH_3$
-	Elements of the compound	$C_6H_6N_2O_2$	C_8H_9NO
-	Structure formula		
-	Name of the compound	P-nitroaniline [$C_6H_6N_2O_2$]	Acetanilide [C_8H_9NO]
-	M.P / B.P	149°C	114°C

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Expt. No. 6

✱ Practical 6 ✱

Page No. 27

AIM Separation of organic Binary Mixture

1> Acid &

- Mix + $NaHCO_3$ → CO_2 eff —Filtre→ Acid —ppt d, dil HCl→ Acid confirmed

2> Phenol &

- Residue + 10% NaOH → It is dissolve —ppt with dil HCl→ Phenol confirmed

A> Preliminary test & Acid.

Test	observation	Inference
- State	solid	Generally acid, phenols, amines, carbohydrates etc may be present
- Colour	colourless	carboxylic acid, aldehydes ketones, carbohydrates, hydrocarbones, amides, amilides etc may be present
- Odour	not specified	odour not obtained
- Heating on a porcelain Piece	Sublimation	Napthalene, Pthalic acid etc may be present
- Beilstein's test	Sub not burns with green flame	Halogen compound is absent

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-	Solubility test mix + dist water	Blue litmus convert into red Congo red convert into blue	Acidic compound is Present

B> Detection of elements :-

Lassaigne's test :-

-	Filtrate + 1/3 T.T Saturated $FeSO_4$ sol heat to boil, cool + 2 to 3 drops of $FeCl_3$ dil. HCl and shake it	Blue or green ppt not obtained	Nitrogen is absent
-	Filtrate + sodium nitro Prasside	Brilliant Purple and violet colour not obtained.	Sulpher is absent
-	Filtrate + 1ml conc HNO_3 boil and cool + $AgNO_3$	White or yellow ppt not obtained	Helogen are absent [Cl^-, Br^-, I^-) are absent

C> Conclussion :

- The Substance C, H with O as an elements.

D> Detection of fuctional groups

- Acid (-COOH) : Soolid

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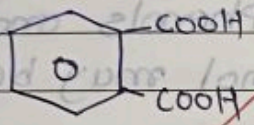
- Substance + saturated of $NaHCO_3$	CO_2 gas evolved and apptd by dil HCl sol.	- COOH group is Present.

E> M.P / B.P Acid.

Compound and formula	M.P
Phthalic acid. 	196°C M.P.

F> Confirmatory Test :-

- Acid [in small beaker + resorcinol + 3-4 drop Conc H_2SO_4 heat, cool + 20% NaOH excess	green Fluorescence	Phthalic acid confirmed.

Date _____

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Expt. No. 6 Page No. 30

A> Preliminary test : Phenol

	Test	observation	Inference
-	State	Solid	acids, Phenol, amines etc may be present
-	Colour	Black brown	Napthanols may be Present
-	odour	Phenolic	Phenols and napthanol may be present.
-	Heating on porcelain piece	Burns with sooty flame	Aromatic compounds is present
-	Beilsten's test	Sub. not burns with green flame	Helogen compound is absent urea is abse.
-	Solubility test Mix + distilled water	Sub. not Soluble in hot or cold water	Alcohols, Carbohydrates etc is absent.

B> Detection of elements :

- Lassaign's test :-

-	Filtrate + 1/3 T.T Saturated $FeSO_4$ sol heat to boil + 2 to 3 drops of $FeCl_3$ + dil HCl (excess) Shake well	Blue or green PPTS not obtained	Nitrogen is absent

Date _____ Teacher's Signature : _____

Expt. No. 6

- Filtrate + sodium nitro Prusside	Purple or violet colour not obtained	Sulphur is absent.
- Filtrate + 1ml conc HNO_3 boil and cool + $AgNO_3$	White or yellow ppt not obtained	Halogen [Cl, Br, I] is absent

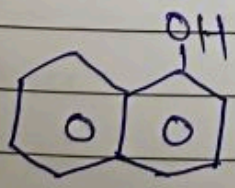
C) Conclusion :-

- The substance contains C, H with oxygen as an elements.

D) Detection of functional group : Phenol (-OH)

- Dissolve the substance in alcohol + neutral $FeCl_3$ sol [or] $FeCl_3$ in alchol	Green, blue or violet colouration	- OH phenolic group is present.

E) M.P / B.P :-

Compound and formula	M.P.
α-naphthol 	94°C

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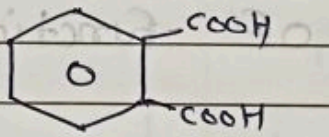
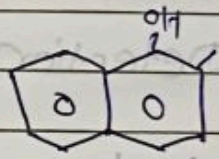
F) Confirmatory Test : α- naphthol

- Sub + NaOH + Cu foil + CCl_4 heat	Blue colouration	α-naphthol confirmed

G) Fincal conclusion :

	Component I	Component II
- Chemical nature	Acid	Phenol
- Functional group	-COOH	-OH
- Elements of compound	C,H,O	C,H,O
- Structural formula		
- Name of the compoun	Phthalic acid $[C_8H_6O_4]$	α-naphtol $[C_{10}H_8O]$
- M.P / B.P	196°C	94°C

Date _____ Teacher's Signature : _____

Expt. No. 7

☆ Practical 7 ☆

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AIM:- Separation of Organic Binary mixture.

1) Acid :-
- Mix + $NaHCO_3$ → CO_2 off → Filter → Acid not obtained
- Acid not rppted by dil HCl → Acid Absent

2) Phenol :-
- Residue + 10% NaOH → If it dissolve not rppted with dil HCl → Phenol is absent
- Phenol is Present

3) Base :-
- Reidue + dil HCl → Soluble rppted with dil NaOH → Base is confirmed

4) Neutral : If Residue insoluble in dil HCl then neutral is confirmed

A) Preliminary test : Base

Test	Observation	Inference
- State	Solid	acid, phenols, amines, carbo hydrates etc may be present
- colour	orange	nitro-aniline may be present
- Odour	Pleasent	ethers, fsters, alcohols etc may be present

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- Heating on a porcelain Piece	Burns with sooty Flame	Aromatic compound is present
- Beilstein's test	sub-not burns with green Flame	Helogen compound is absent urea is absent
- solubility test Mixt dis water	Sub not soluble in hot or cold water	Alcohols, carbohydrates is absent.

B> Detection of elements:

- Lassaign's test: substance is fused with sodium metal in fusion tube and extracted with water and performing the following test with filtrate.

- Filtrate + 1/3 T.T freshly prepare $FeSO_4$ solution + 2 to 3 drops of $FeCl_3$ + dil HCl (excess) and shake well	Blue or green ppts obtained	Nitrogen is present

C) Conclusion:

- The substance contains C, H, N with oxygen as an elements.

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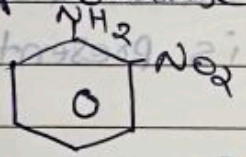
D) Detection of fuctional group:-

- Nitro aniline [$-NO_2$ and $-NH_2$ together] : Basic

- Sub + NaOH solution	Yellow colouration	$-NO_2$ gas is present
- Dye test	Red dye	$-NH_2$ group is present

E) M.P / B.P : Base

Compound and formula	M.P.
O-nitro aniline (deep orange) 	71°C

F) Confirmatory test:-

- Orange substance soluble in hot water give azo-dye test give millikan's test

↓

O-nitro aniline confirmed

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A> Preliminary teste : Neutral

	Test	observation	Inference
-	State	Solid	acid, Phenols amies, carbohydrates etc may be Present
-	Colour	colourless	aldehydes, ketons, carbohydrates, hydrocarbones, amides etc may be present
-	Odour	Sweet	Aliphatic halogencated Substituted compound is present.
-	Heating on a porcelain piece	Burn with sooty flame	Aromatic compounds, chloroform chloral, hydrate etc may be present.
-	Beilstein's test	Sub burns with green Flame	Halogen compound is Present.
-	Solubility test + Mitt distilled water	Sub not soluble in hot or cold water	Alcohols, carbohydrates is absent

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B) Detection of elements :-

- Lassaigne's test :- Substance is fused with sodium metal in fusion tube and extracted with water and performing the following test with Filtrate

- Filtrate + 1/3 T.T Freshly prepare $FeSO_4$ solution + 2 to 3 drops of $FeCl_3$ + dil HCl (excess) shake it	Blue or green ppts not obtained	Nitrogen is absent.
- Filtrate + sodium nitro Pruside	Purple or violet colour not obtained	Sulpher is absent.
- Filtrate + 1ml conc HNO_3 boil and cool + $AgNO_3$	White or yellow ppts obtained	Hallogen [Cl^-, Br^-, I^-] may be present.
- Filtrate + $CHCl_3$ + Cl_2 water	violet layer not obt Brown layer not obt colourless layer obt	I^- is absent Br^- is absent Cl^- is present.

C) Conclusion :-

- The substance contains C, H, Cl with out oxygen as an element.

D) Detection of functional group :-

- Filtrate + $CHCl_3$ + Cl_2 water	colourless layer	Cl^- is present

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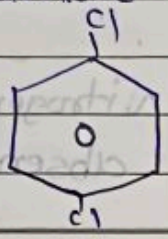
Teacher's Signature : _____

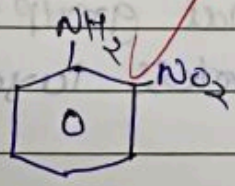
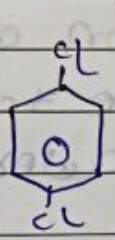
E> M.P / BP :- Neutral

compound and formula	M.P
p-dichloro benzene 	53°c

F> Confirmatory test :-

- No ppts with alcoholic $AgNO_3$ i.e ethanol + $AgNO_3$)
- green flame when heating on Cu. foil

* Final conclusion :-

	Compont 1	compont 2
- Chemical nature	Base	Neutral
- Functional group	$-NH_2$ & $-NO_2$	$-Cl$
- Element of the compound	C, H, N, O	C, H, Cl_2
- Structural formula		

Date _____

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- Name of the compound	O-nitro aniline $[C_6H_6O_2N_2]$	P dichloro benzene $[C_6H_4Cl_2]$
- M.P/B.P	71°C	53°C

Date

Teacher's Signature :

☆ Practical-8 ☆

Expt. No. 8 ☆ Gravimetric Analysis ☆ Page No. 39

→ Exp-1 :- Barium (Ba) as Barium Sulphate ($BaSO_4$)

→ AIM :- Barium as Barium Sulphate From Barium chloride and Free Hcl.

→ Apparatus :- Crucibe , Pairs of tongs , balance etc

→ Requirements :- 1> Conc Hcl , 2> NH_4Cl solid , 3> 50 % Amonia Sol 4> 10 % Na_2SO_4 Solution

→ Process :- Dilute the given solution to the mark with distill water . Shake it well to make homogeneous . Now, Pipette out 50 ml . diluted solution in a clean 250 ml beaker Add few drops of conc Hcl and heat it to boiling In another beaker take out about 25 ml of 10 % Na_2SO_4 Solution and boil it . Now add this hot Na_2SO_4 sol. to the beaker containing diluted barium solution . Stir well and add Na_2SO_4 sol drowise till the ppts off $BaSO_4$ is complete . Digest the ppts less whatman filter paper No 41 wash the ppts with hot distill put it on metal cone to dry , fold over the filter paper with ppts . And transfer to a previously cleaned , dried and weighted crucicel . Intigle First with slow heating for 15-20 min and then ignite with strong heating 30 min . cool the crucible in decicator and weight . Heat it again for 10 min cool and and wight to get a constant weight (At wt (Ba = 137.40 , S = 32 , O = 16 , H = 1 , Cl = 35.5)

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→ Equation :-

$$BaCl_2 + Na_2SO_4 = BaSO_4 + 2NaCl$$

→ Observations :-

Weight of curcible + residue = 15.729 gm + 15.988 gm
= 31.695 gm

weight of crucible = 15.729 gms
weight of residue = 15.988 gms
weight of residue = $w_2 - w_1$ = 15.998 - 15.729

A = 0.259 gms

→ Calculation :-

From Stoichiometric equation $BaSO_4 = Ba^{+} = BaCl_2 \cdot H_2O$
233.40 = 137.4 = 244.40gms

(i) Amount of Ba^{+2} in 50 ml. diluted solution,

$$= \frac{\text{wt. of residue (A gms)} \times \text{At. wt. of Ba (137.40)}}{\text{Mol. wt. of } BaSO_4 \text{ (233.40)}}$$

$$= \frac{A \times 137.4}{233.40}$$

$$B = \frac{0.259 \times 137.4}{233.40}$$

B = 0.1524 gms (in 25 ml)

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(ii) amount of Ba^{+2} present in given solution (250 ml) = 5 × B

= 5 × 0.1524

= 0.762 gms

(in 250 ml)

$Ba^{+2} = BaCl_2 \cdot 2H_2O$

∴ C gm Ba = 0.762 gms

$= \frac{C \times \text{mol wt of } BaCl_2 \cdot 2H_2O \ (244.40)}{\text{At. wt. of Ba } (137.4)}$

$= \frac{C \times 244.40}{137.4}$

$= \frac{0.762 \text{ gms} \times 244.40}{137.4}$

(D) = 1.3554 gms $BaCl_2 \cdot 2H_2O$ in 250 ml

→ Result :-

(i) 50 ml diluted solution gave 0.259 gm of $BaSO_4$.

(ii) Amount of Ba^{+2} present in original solution (250 ml)

= 0.762 gms

(iii) Amount of $BaCl_2 \cdot 2H_2O$ present in given solution = 1.3554 gms

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Expt. No. 9

✯ Practical-9 ✯

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→ Exp-2 :- Iron (Fe) as Feric oxide (Fe_2O_3)

→ Aim :- Iron as Fric oxide (Fe_2O_3) From Ferrous Ammonium Sulphate and Free sulphuric acid.

→ Requirement :- 1> conc HCl, 2> conc HNO_3, 3> Methyl red indicator 4> NH_4Cl Powder, 5> 50% ammonium sol.

→ Process :- Dilute the given solution to the mark with distil water Shake it well homogeneous. Now, Pipette out 50 ml, diluted solution in a cleaned dry 250 ml beaker and add 1ml, conc HCl and diluted it to about 100 ml with distill water. Concentrate the solution. Now add about 1 ml pure conc. HNO_3 and heat the solution to boiling add 5 gm NH_4Cl solid and 2-3 drops of Methyl red indicator. Again heat the solution just to boiling Now add 50% ammonia sol dropwish with stirring till the ppts of $Fe(OH)_3$ in completed. Digest the ppts on boiling water bath of the about 10-15 min so the ppts settler down. Now, Filter the hot sol. through ashless filter paper. wash the ppts with 2% NH_4NO_3 so. till they are free from chlorides and Sulphates. Add 50% ammonia sol in the filter for test complete precipitation.

- Heat it again for few minites. cool and weight out gain to get a constant weight (At wt of Fe = 53.8, S = 32, O = 16, N = 14, H = 1)

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→ Equations :-

(i) $Fe^{+2} + HNO_3 = Fe^{+3} + e^-$ $(3Fe^{+2} + NO_3^- + 4H^+ = 3Fe^{+3} + NO + 2H_2O)$

(ii) $Fe^{+3} + 3OH^- = Fe(OH)_3$

(iii) $Fe(OH)_3$ (heat) $= Fe_2O_3 + 3H_2O$

→ Observation :-

(i) Wt. of crucible only = 16.671 gms

(ii) Wt. of residue = 16.671 - 16.476

A = 0.195 gms

→ Calculation :-

- from Stoichmetic equation

$Fe_2O_3 = 2Fe = 2FeSO_4(NH_4)_2 \cdot 6H_2O$

(159.7) = (112) = (784.2)

(i) amount of Fe in 50ml diluted solution

$= \frac{\text{Wt. of residue (A gms)} \times 2 \times \text{At. wt of (55.8)}}{\text{Mol. wt of } Fe_2O_3 \text{ (159.7)}}$

$= \frac{A \times 2 \times 55.8}{159.7}$

$= \frac{0.195 \times 2 \times 55.8}{159.7}$

B = 0.1362 gms (in 50 ml)

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(ii) Amount of Fe in original solution (250ml) = 5 × B

= 5 × 0.1362

C = 0.681 gms Fe in 250ml

(iii) Amount of $FeSO_4(NH_4)_2 \cdot 6H_2O$ in a given solution (250ml)

gFe = a $FeSO_4(NH_4)_2 \cdot 6H_2O$

C gm Fe = 0.681 gm

$$= \frac{C \times 2 \times \text{mol.wt. } FeSO_4(NH_4)_2 \cdot 6H_2O\ (392.1)}{2 \times \text{At.wt of Fe}\ (55.85)}$$

$$= \frac{C \times 2 \times 392.1}{2 \times 55.85}$$

$$= \frac{0.681 \times 2 \times 392.1}{2 \times 55.85}$$

$$= \frac{534.04}{111.7}$$

D = 4.78 gms $FeSO_4(NH_4)_2 \cdot 6H_2O$ in 250ml

⇒ Result :-

(i) 50 ml diluted solution gave 0.195 gms of Fe_2O_3

(ii) Amount of Fe Present in original solution (250ml) = 0.681 gms

(iii) Amount of $FeSO_4(NH_4)_2 \cdot 6H_2O$ Present in given sol = 4.78 gms

Date

Teacher's Signature :

Year – 2020-21

Bhavan's Shri I. L. Pandya Arts – Science and Smt. J. M. Shah Commerce College, Dakor, Gujarat Dakor – 38822

Minutes of Meeting of Intellectual Property Rights Cell held on 22.02.2021

Notice

It is therefore requested to all faculty members of IPR-Cell that 22-02-2021 is the date we have planned for meeting in the Principal's room. So it is requested to all faculty members of this committee remain present at 2.00 pm.

Committee Members:

1. Dr. S. A. Gandhi -
2. Dr. M. K. Nayee -
3. Dr. K. K. Dave -

Agenda of Meeting

1. **Analysis of the IPR webinar conducted on 7th October 2020 (Report of Webinar)**
2. **To promote constant awareness about IPR.**

Minutes of Meeting:

- The report of the webinar entitled **"Intellectual property Right: A way for Socio-economic upliftment"** conducted on 7th October 2020 has been read by Dr. S. A. Gandhi and discussed by all the members of IPR.
- To encourage and support Researchers and Faculties for patent/ IPR will be organized webinar or workshop in the institute in this pandemic era. Protect the legitimate rights of faculty and scholars/students about their intellectual and creative/novel outcomes.

Convener Sign

Principal Sign
c/c Principal
Bhavan's Shri I.L.Pandya
Arts, Science & Jashodaben Shah
Commerce College,Dakor

Year – 2020-21

Bhavan's Shri I. L. Pandya Arts – Science and Smt. J. M. Shah Commerce College, Dakor, Gujarat Dakor – 38822

Minutes of Meeting of Intellectual Property Rights Cell held on 16.09.2020

Notice

It is therefore requested to all faculty members of IPR-Cell that 16-09-2020 is the date we have planned for meeting in the Principal's room. So it is requested to all faculty members of this committee remain present at 3.00 pm.

Committee Members:

1. Dr. S. A. Gandhi -
2. Dr. M. K. Nayee -
3. Dr. K. K. Dave -

Agenda of Meeting

1. **Planning events on IPR**
2. **Resource persons for IPR related awareness talks**

Minutes of Meeting:

1. One workshop or Webinar on IPR to be organized during this academic year. To encourage Faculty and Research students to attend National / State level events on IPR. One resource lecture or Faculty development program on IPR to be organized for Faculty and resource scholars next month.
2. Members suggested the name of resources person for IPR related lectures and the same was documented and after the debated the following resource person was suggested and the 07/10/2020 date declared for a webinar.

   Dr. Swayamprakash Patel
   Ph.D., M.Pharm, PGDIPR, Registered Patent Agent (Govt. of India)
   Assistant Professor, Department of Pharmaceutics, Ramanbhai Patel College of Pharmacy (RPCP), Charotar University of Science and Technology (CHARUSAT), Gujarat, India

Convener Sign

Principal Sign

I/c Principal
Bhavan's Shri I.L.Pandya
Arts, Science & Jashodaben Shah
Commerce College,Dakor

SARDAR PATEL UNIVERSITY
Programme: BCOM
Semester: I
Syllabus with effect from: June 2011

Paper Code: UB01SCOM01	**Total Credit: 3**
Title Of Paper: Environmental Studies	

Unit	Description in detail	Weighting (%)
1	**Overview of Environmental Studies**: Definition, Scope, Importance. Renewable and Non Renewable Resources, Equitable use of resources for sustainable lifestyles	**25 %**
2	**Natural Resources and Associated Problems** Forest Resources, Water Resources, Mineral Resources, Energy Resources, Land Resources. Role of Individual in conservation of Natural Resources Case Study on various resources	**25 %**
3	**Ecosystems** Concept, Structure, Function. Types, Characteristics, Threats of following ecosystems Forest, Grassland, Desert and Aquatic Ecosystems Role of Individuals in sustaining the above types of Ecosystems	**25 %**
4	**Biodiversity** Introduction, Types – Genetic, Species, Ecosystem Biodiversity at Global National and Local Levels India as a mega diversity nation Threats & conservation of Biodiversity.	**25 %**

Basic Text & Reference Books

- Text book of Environmental Studies for undergraduate Courses : Erach Barucha, Publisher University Press, University Grants Commission.

SARDAR PATEL UNIVERSITY
Programme: B.Com.
Semester: I
Syllabus with Effect From:June-2018

Paper Code:UB01SCOM21	Total Credit:3
Title Of Paper: Environmental Studies	

Objective: This course introduces students to concepts, methods and policy options in managing the environment using tools of economic analysis.

Unit	Description of Detail	Weighting(%)
I	**Overview of Environmental Studies:** ➢ Definition ➢ Scope ➢ Importance ➢ Meaning and Concept of Renewable and Non Renewable Resources ➢ Equitable use of resources for sustainable lifestyles	**25%**
II	**Natural Resources and Associated Problems** ➢ Concept and Threats ➢ Forest Resources ➢ Water Resources ➢ Mineral Resources ➢ Energy Resources ➢ Land Resources ➢ Role of individual in conservation of Natural Resources	**25%**
III	**Ecosystem** ➢ Concept, Structure, Functions of an Ecosystem ➢ Producers, Consumers and Decomposers in Ecosystem ➢ Food Chain, Food Web and Ecological Pyramid ➢ Types, characteristics and Threats of Ecosystem ➢ Types – Forest, Grassland, Desert and Aquatic Ecosystem ➢ Role of Individual in sustaining Ecosystem	**25%**
IV	**Biodiversity** ➢ Introduction ➢ Types – Genetic, Species and Ecosystem ➢ Biodiversity at Global, National and Local Levels ➢ India as a Mega Diversity Nation ➢ Threats and Conservation of Biodiversity	**25%**

Basic Text & Reference Books:-

- Text book of Environmental Studies for undergraduate Courses :
  ErachBharucha, **Publisher:** University Press, University Grants Commission

SARDAR PATEL UNIVERSITY
B.Com. Semester: I
Syllabus with Effect From:June-2019

Paper Code:UB01SCOM51	Total Credit:3
Title Of Paper: Environmental Studies	

Objective: This course introduces students to concepts, methods and policy options in managing the environment using tools of economic analysis.

Unit	Description of Detail	Weighting(%)
I	**Overview of Environmental Studies:** ➢ Definition ➢ Scope ➢ Importance ➢ Meaning and Concept of Renewable and Non Renewable Resources ➢ Equitable use of resources for sustainable lifestyles	25%
II	**Natural Resources and Associated Problems** ➢ Concept and Threats ➢ Forest Resources ➢ Water Resources ➢ Mineral Resources ➢ Energy Resources ➢ Land Resources ➢ Role of individual in conservation of Natural Resources	25%
III	**Ecosystem** ➢ Concept, Structure, Functions of an Ecosystem ➢ Producers, Consumers and Decomposers in Ecosystem ➢ Food Chain, Food Web and Ecological Pyramid ➢ Types, characteristics and Threats of Ecosystem ➢ Types – Forest, Grassland, Desert and Aquatic Ecosystem ➢ Role of Individual in sustaining Ecosystem	25%
IV	**Biodiversity** ➢ Introduction ➢ Types – Genetic, Species and Ecosystem ➢ Biodiversity at Global, National and Local Levels ➢ India as a Mega Diversity Nation ➢ Threats and Conservation of Biodiversity	25%

Basic Text & Reference Books:-

- Text book of Environmental Studies for undergraduate Courses :
  ErachBharucha, **Publisher:** University Press, University Grants Commission

SARDAR PATEL UNIVERSITY

B.COM. (BUSINESS STUDIES) SEMESTER-I		
Course Code	**Course Title**	**Total Credit**
UB01SCOM71	**Environmental Sciences**	**3**
Course Objectives	This course introduces students to concepts, methods and policy options in managing the environment using tools of economic analysis.	

Course Description		
Unit	**Description**	**Weightage**
1.	**Overview of Environmental Studies:** ➢ Definition ➢ Scope ➢ Importance ➢ Meaning and Concept of Renewable and Non Renewable Resources ➢ Equitable use of resources for sustainable lifestyles	**25%**
2.	**Natural Resources and Associated Problems** ➢ Concept and Threats ➢ Forest Resources ➢ Water Resources ➢ Mineral Resources ➢ Energy Resources ➢ Land Resources ➢ Role of individual in conservation of Natural Resources	**25%**
3.	**Ecosystem** ➢ Concept, Structure, Functions of an Ecosystem ➢ Producers, Consumers and Decomposers in Ecosystem ➢ Food Chain, Food Web and Ecological Pyramid ➢ Types, characteristics and Threats of Ecosystem ➢ Types – Forest, Grassland, Desert and Aquatic Ecosystem ➢ Role of Individual in sustaining Ecosystem	**25%**
4.	**Biodiversity** ➢ Introduction ➢ Types – Genetic, Species and Ecosystem ➢ Biodiversity at Global, National and Local Levels ➢ India as a Mega Diversity Nation ➢ Threats and Conservation of Biodiversity	**25%**

*Units will have the same Weightage in the evaluation as suggested in the course outline.

Teaching-Learning Methodology	• Lecture Method • Online Lectures • Group Discussion

Evaluation Pattern		
Sr.No.	**Details of the Evaluation**	**Weightage**
1.	Internal/Written Examination	**15%**
2.	Internal Continuous Assessment in the form of Practical , Viva-Voce, Quizzes, Seminars, Assignments, Attendance	**15%**
3.	University Examination	**70%**

* Students will have to score a minimum of 40 (Forty) Percent to pass the course.

Course Outcomes: Having Completed this course, the students will be able to	
1.	To furnish awareness about environmental problems among people.
2.	Impart basic knowledge about the environment and its allied problems.
3.	Developing an attitude of concern for the environment.
4.	Acquiring skills to help the concerned individuals in identifying and solving environmental problems.

Suggested References:	
Sr. No	**References**
1.	Text book of Environmental Studies for undergraduate Courses : Erach Bharucha, Publisher: University Press, University Grants Commission
On-Line Resources available that can be used as Reference Material	
https://ugcmoocs.inflibnet.ac.in/view_module_ug.php/172	

SARDAR PATEL UNIVERSITY
Programme: BCOM
Semester: II
Syllabus with effect from: November 2013

Paper Code: UB02SCOM06	**Total Credit: 3**
Title Of Paper: Climate Change and Sustainable Development. (Effective from November 2013) (Revised)	

Unit	Description in detail	Weighting (%)
1	**Pollution:** Defination Causes and Effects of Air Pollution, Water Pollution, Soil Pollution, Marine Pollution and Noise Pollution. Role of an individual in prevention of pollution. Disaster management: Floods, Earthquakes, Cyclones and Landslides.	**25 %**
2	**Social Issues:** From unsustainable to sustainable development. Urban problems related to energy. Water conservation, Rainwater harvesting and Watershed management. Resettlement and rehabilitation of people: It's Problems and concerns.	**25 %**
3	**Climate Change:** Climate change, Global warming, Acid rain, Ozone layer depletion, nuclear accidents and nuclear holocaust. The environment protection act. Issues involved in enforcement of environmental legislation. Public awareness.	**25 %**
4	**Human Population:** Population growth, Population Explosion. Environment and Human Health. Role of information technology in environment and human health. Visit to a local area to document environmental assets as per guidelines.	**25 %**

Basic Text & Reference Books:

- Text book of Environmental Studies for undergraduate Courses:
Erach Barucha for University Press, University Grants Commission.

SARDAR PATEL UNIVERSITY
Programme: B.Com.
Semester: II
Syllabus with Effect From: November/December-2018

Paper Code:UB02SCOM21	Total Credit:3
Title Of Paper: Climate Change and Sustainable Development	

Objective: This course introduces students to concepts, methods and policy options in managing the environment using tools of economic analysis.

Unit	Description of Detail	Weighting(%)
I	**Pollution:** ➢ Causes and Effects of Air Pollution, Water Pollution, Soil Pollution, Marine Pollution and Noise Pollution ➢ Role of an individual in prevention of pollution ➢ Disaster management: Floods, Earthquakes, Cyclones and Landslides.	**25%**
II	**Social Issues:** ➢ From unsustainable to sustainable development ➢ Urban problems related to energy ➢ Water conservation, Rainwater harvesting and Watershed management ➢ Resettlement and rehabilitation of people: It's Problems and concerns.	**25%**
III	**Climate Change:** ➢ Climate change, Global warming, Acid rain, Ozone layer depletion, nuclear accidents and nuclear holocaust. ➢ Issues involved in enforcement of environmental legislation. ➢ Public awareness	**25%**
IV	**Human Population:** ➢ Population growth, Population Explosion. ➢ Environment and Human Health. ➢ Role of information technology in environment and human health. ➢ Visit to a local area to document environmental assets as per guidelines.	**25%**

Basic Text & Reference Books:-

- Text book of Environmental Studies for undergraduate Courses :
  ErachBharucha, **Publisher:** University Press, University Grants Commission

SARDAR PATEL UNIVERSITY
B.Com. Semester: II
Syllabus with Effect From:November/December-2019

Paper Code:UB02SCOM51	Total Credit:3
Title Of Paper: Climate Change and Sustainable Development	

Objective: This course introduces students to concepts, methods and policy options in managing the environment using tools of economic analysis.

Unit	Description of Detail	Weighting(%)
I	**Pollution:** ➢ Causes and Effects of Air Pollution, Water Pollution, Soil Pollution, Marine Pollution and Noise Pollution ➢ Role of an individual in prevention of pollution ➢ Disaster management: Floods, Earthquakes, Cyclones and Landslides.	**25%**
II	**Social Issues:** ➢ From unsustainable to sustainable development ➢ Urban problems related to energy ➢ Water conservation, Rainwater harvesting and Watershed management ➢ Resettlement and rehabilitation of people: It's Problems and concerns.	**25%**
III	**Climate Change:** ➢ Climate change, Global warming, Acid rain, Ozone layer depletion, nuclear accidents and nuclear holocaust. ➢ Issues involved in enforcement of environmental legislation. ➢ Public awareness	**25%**
IV	**Human Population:** ➢ Population growth, Population Explosion. ➢ Environment and Human Health. ➢ Role of information technology in environment and human health. ➢ Visit to a local area to document environmental assets as per guidelines.	**25%**

Basic Text & Reference Books:-

- Text book of Environmental Studies for undergraduate Courses :
  ErachBharucha, **Publisher:** University Press, University Grants Commission

SARDAR PATEL UNIVERSITY

B.COM. (BUSINESS STUDIES) SEMESTER-II		
Course Code **UB02SCOM71**	**Course Title** **Climate Change and Sustainable Development**	**Total Credit** **3**
Course Objectives	The objective of the course is to impart basic knowledge of the Company's secretary and secretarial practice.	

Course Description

Unit	Description	Weightage (%)
1	**Pollution:** ➢ Causes and Effects of Air Pollution, Water Pollution, Soil Pollution, Marine Pollution and Noise Pollution ➢ Role of an individual in prevention of pollution ➢ Disaster management: Floods, Earthquakes, Cyclones and Landslides.	**25%**
2	**Social Issues:** ➢ From unsustainable to sustainable development ➢ Urban problems related to energy ➢ Water conservation, Rainwater harvesting and Watershed management ➢ Resettlement and rehabilitation of people: It's Problems and concerns.	**25%**
3	**Climate Change:** ➢ Climate change, Global warming, Acid rain, Ozone layer depletion, nuclear accidents and nuclear holocaust. ➢ Issues involved in enforcement of environmental legislation. ➢ Public awareness	**25%**
4	**Human Population:** ➢ Population growth, Population Explosion. ➢ Environment and Human Health. ➢ Role of information technology in environment and human health. ➢ Visit to a local area to document environmental assets as per guidelines.	**25%**

*Units will have the same Weightage in the evaluation as suggested in the course outline.

Teaching-Learning Methodology	• Lecture Method • Online Lectures • Group Discussion • Practical Problem Solving

Evaluation Pattern		
Sr.No.	**Details of the Evaluation**	**Weightage**
1.	Internal/Written Examination	**15%**
2.	Internal Continuous Assessment in the form of Practical , Viva-Voce, Quizzes, Seminars, Assignments, Attendance	**15%**
3.	University Examination	**70%**

* Students will have to score a minimum of 40 (Forty) Percent to pass the course.

Course Outcomes: Having Completed this course, the students will be able to	
1.	Learn about various types of pollution and information relating to them.
2.	Gain familiarity with Social Issues like unsustainable development, Urban Problems related to energy etc.
3.	Get an idea about Climate Change, Global Warming, Human Population etc.

Suggested References:	
Sr. No	**References**
1.	Text book of Environmental Studies for undergraduate Courses : Erach Bharucha, Publisher: University Press, University Grants Commission

SARDAR PATEL UNIVERSITY,
Vallabh Vidyanagar.
Programme & Subject : B.A. (CBCS)
SEMESTER-II
Ability Enhancement Compulsory Course

Paper Code: UA02AENV21		**Total Credit:3**
Title of Paper : Environmental Science		
Unit	**Description in Detail**	**Weight age (%)**
1.	1.1 Meaning and Definition of Environment. 1.2 Classification of Environment. 1.3 Elements of Environment 1.4 Meaning of Environmental Education .	**25%**
2.	2.1 Concept of Eco-System. 2.2 Structure and function of Ecosystem. 2.3 Types of ecosystem. 2.4 Energy flow in Ecosystem, Ecology, Food web and Ecological Pyramid.	**25%**
3.	3.1 Meaning of Pollution and Pollutant and Classification of Pollutant. 3.2 Air Pollution, Major sources of Air pollution its Effects and Controlling Measures. 3.3 Water Pollution, Major sources and types of Water Pollution its Effects and Controlling Measures. 3.4 Marine Pollution, effect of Marine Pollution treatment of water, Classification of water treatment process. 3.5 Land Pollution, Meaning, Sources of Land Pollution, Effects of Land Pollution and Soil Conservation.	**25%**
4.	4.1 Environmental Protection Act. 4.2 Wild life Protection Act. 4.3 Forest Conservation Act. 4.4 Climate Change, Global Warming, Acid Rain, Ozone layer Depletion, Public Awareness. 4.5 Environment and Human health.	**25%**

Readings Books :

1. Savindra Singh, (2000): Environmental Geography. Prayag Pustak Bhavan, Allahabad.
2. Alexander, D. (1993): Natural Disasters. UCL Press Ltd, London
3. P.C Sinha ; Introduction to Disaster managements; Anmol Publication Pvt. Ltd., New Delhi.
4. Dr. N. G. Dixit (2012) Man and Environment, Arunoday Publication, Ahmadabad (Gujarati).
5. Dr. B. K. Bhatt, Dr. M.C.Patel, Dr. T.G. Gohil, Environmental Studies, New Popular Prakashan Surat. (Gujarati)
6. Mohan, Environmental Problems in 21st Century, Anmol Publication Pvt, Ltd. New Delhi.
7. P.leela krishan, Environmental low in India, Lexix Nexix, India, Mumbai

Sardar Patel University
B.A. (Semester-2)
(Effect from Dec.2019)
Ability Enhancement Compulsory Course
UA02AENV22 : Environmental Science & Sanskrit

			Unit-1-	- Meaning and Definition of Environment - Classification of Environment - Elements of Environment - Meaning of Environmental Education
			Unit-2	- Concept of Eco-System - Structure and Function of Ecosystem - Types of Ecosystem - Energy flow in Ecosystem, Ecology, Food web and Ecological Pyramid
			Unit-3	- Global Warming - Meaning Of Pollution and Pollutant and Classification of Pollutant - Importance of Air (Vayu) & Controlling Measures of Air Pollution in Vaidik Literature - Importance of Water (Jala) & Controlling Measures of Water Pollution in Vaidik Literature
			Unit-4	- Importance of Land (Bhumi) & Controlling Measures Land Pollution in Vaidik Literature. - Importance of 'Vanasmpatti'(Vegetation) & Plan to Protect 'Vanasmpatti' in Vaidik Literature - Plan to Protect Environment by 'Yagna' in Vaidik Literature - Environment in the Literature of Mahakavi Kalidasa

Reference Books:

1) પર્યાવરણ અભ્યાસ. એરચ ભરૂચા, ઓરિએન્ટલ બ્લેક સ્વાન પ્રાઈવેટ લિમિટેડ, મુંબઈ

2) પર્યાવરણ અભ્યાસ. ડો. બી. કે. ભટ્ટ, ડો.એમ.સી. પટેલ, ડો.ટી.જી.ગોહિલ,, ન્યુ પોપ્યુલર પ્રકાશન, સુરત,2008-09

3) પર્યાવરણ. પ્રો.હેમન્તકુમાર શાહ, નીરવ પ્રકાશન, અમદાવાદ.

4) પર્યાવરણનો અભ્યાસ. બી.એ.શાહ પ્રકાશન, અમદાવાદ.

5) वेदो में पर्यावरण. दया दवे, सुरभि पब्लिकेशन, जयपुर ।

6) संस्कृत- वाङ्गमय में पर्यावरण. डॉ. शंकर लाल शास्त्री, हंसा प्रकाशन, जयपुर, 2009

SARDAR PATEL UNIVERSITY
Vallabh Vidyanagar, Gujarat
(Reaccredited with 'A' Grade by NAAC (CGPA 3.25)
Syllabus with effect from the Academic Year 2021-2022

B.A. Sanskrit -Semester – II

Course Code	**UA02AENV51**	Title of the Course	ENVIRONMENTAL SCIENCE & SANSKRIT
Total Credits of the Course	04	Hours per Week	04

Course Objectives:	This course aims to create awareness in students about environment, to cultivate importance of environmental science and Sanskrit, to improve individual and social awareness .

Course Content		
Unit	Description	Weightage* (%)
1.	**Unit-1-** Paryavaranno Arth ane Vyakhya - Paryavarannu Vargikaran, Paryavaranna Ghatako - Paryavaran Shikshanna Hetuo ane Siddhanto	25
2.	**Unit-2** Nivasantantrno Parichay ane Lakshanikatao,Ghatako, Prakaro Aaharshrunkhala,Aharjaal , Paristhiti Vigyan Pradushanno Arth, Pradushakonu Vargikaran ,Hava Pradushanna Karano ane Asaro, Jal Pradushanna Karano ane Asaro, Jamin Pradushanna Karano ane Asaro	25
3.	**Unit-3** Global Warming, ,Vaidik Sahityama Havanu (Vayu) Mahatv ane Samrakshanna Upayo, Vaidik Sahityama Jalnu Mahatv ane Samrakshanna Upayo	25
4.	**Unit-4** Vaidik Sahityama Pruthvinu (Jamin) Mahatv, Samrakshanna Upayo Vaidik Sahityama Vnsampattinu Mahatv & Samrakshanna Upayo Vedoma Ygan dvara ParyavaranSvrakhshan - Kalidasna Sahityama Paryavaran	25

Teaching-Learning Methodology	

Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written / Practical Examination (As per CBCS R.6.8.3)	15%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3)	15%
3.	University Examination	70%

Course Outcomes: Having completed this course, the learner will be able to	
1.	Students will be able to learn about Environment, its mean and importance .
2.	Students will be able to understand the importance of environment in daily life in present time through Sanskrit literature.

Suggested References:	
Sr. No.	References
1.	Paryavaran Abhyas,Erach Bharucha, Oreintal Black Swan Private Limited,Mumbai
2.	Paryavaran Abhyas , Dr.B.K.Bhatt ,New Popular Prakashan,Surat
3.	Paryavaran,Prof.Hemantkumar Shah ,Nirav Prakashan,Ahmedabad
4.	Paryavaranno Abhyas B.S.Shah Prakashan,Ahmedabad
5.	Vedo me Paryavaran , Daya Dave ,Surabhi Publication ,Jiaipur
6.	Sanskrit Vangmaya me Paryavaran ,Dr.Shankarlal Shastri,Hansa Prakashan,Jaipur

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On-line resources to be used if available as reference material
On-line Resources

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SARDAR PATEL UNIVERSITY
B.Sc. FIRST SEMESTER
Skill Enhancement : US01SENV21 (T) Environmental Studies
Effective from June 2018
2 Credits, 2 periods per week
Total Marks 50, Internal -15 Marks, External-35 Marks, Exam duration: 2 hours

Unit 1: Introduction to Environmental studies (7 lectures)

- Definition, Scope and importance of Environmental Studies
- Multidisciplinary nature of environmental studies
- Component of Environment: Atmosphere, Hydrosphere, Lithosphere, Biosphere
- Biogeochemical cycles : Carbon cycle and Nitrogen cycle
- Concept of sustainability and sustainable development.

Unit 2: Ecosystems (7 lectures)

- Definition, Structure of ecosystem – Abiotic and Biotic components (Producers, Consumers and Decomposers)
- Functions of Ecosystem :Energy flow in an ecosystem , Food chains, Food webs with examples
- Types of Ecosystem; Forest ecosystem ,Lake / Pond ecosystem, Desert ecosystem

Unit 3: Natural Resources: (8 lectures)

- Classification -Renewable & Non-renewable Resources and types
- Land resources & Land degradation, Soil erosion & Conservation
- Forest Resources - Forest wealth, Deforestation: Causes and impacts
- Water Resources- Use and over-exploitation of surface and ground water, floods and droughts
- Energy resources- use of alternate energy sources, growing energy needs
- Conservation of Natural resources

Unit 4: Biotic Interactions (8 lectures)

- **Positive Interactions with suitable examples**
  A. Mutualism
  B. Commensalism
  C. Proto-cooperation
- **Negative Interactions with suitable examples**
  A. Exploitation
  B. Competition
  C. Antibiosis

Suggested Readings:

1. Ecology and Environment by P.D. Sharma
2. Fundamentals of Ecology by E.P.Odum
3. Ecology by Mohan P. Arora
4. Fundamentals of Ecology by M.C. Dash
5. Environmental Science by S.C.Santra
6. An Introduction to Environmental Engineering & Science by Gilbert N Master
7. Encyclopaedia of Environmental Pollution and Control by R. K. Trivedi
8. Ecology and Sustainable development by P.S. Ramkrishana
9. Environmental Conservation; Fundamentals of Forestry Vol 5 by S.S. Negi, Bishen Singh, Mahendra Pal Singh

SARDAR PATEL UNIVERSITY
B.Sc. FIRST SEMESTER
Skill Enhancement : US01SENV22 (T) Environmental Studies
Effective from June 2020
2 Credits, 2 periods per week
Total Marks 50, External-50 Marks, Exam duration: 2 hours

Unit 1: Introduction to Environmental studies (7 lectures)

- Definition, Scope and importance of Environmental Studies
- Multidisciplinary nature of environmental studies
- Component of Environment: Atmosphere, Hydrosphere, Lithosphere, Biosphere
- Biogeochemical cycles : Carbon cycle and Nitrogen cycle
- Concept of sustainability and sustainable development.

Unit 2: Ecosystems (7 lectures)

- Definition, Structure of ecosystem – Abiotic and Biotic components (Producers, Consumers and Decomposers)
- Functions of Ecosystem :Energy flow in an ecosystem , Food chains, Food webs with examples
- Types of Ecosystem; Forest ecosystem ,Lake / Pond ecosystem, Desert ecosystem

Unit 3: Natural Resources: (8 lectures)

- Classification -Renewable & Non-renewable Resources and types
- Land resources & Land degradation, Soil erosion & Conservation
- Forest Resources - Forest wealth, Deforestation: Causes and impacts
- Water Resources- Use and over-exploitation of surface and ground water, floods and droughts
- Energy resources- use of alternate energy sources, growing energy needs
- Conservation of Natural resources

Unit 4: Biotic Interactions (8 lectures)

- **Positive Interactions with suitable examples**
  A. Mutualism
  B. Commensalism
  C. Proto-cooperation
- **Negative Interactions with suitable examples**
  A. Exploitation
  B. Competition
  C. Antibiosis

Suggested Readings:

1. Ecology and Environment by P.D. Sharma
2. Fundamentals of Ecology by E.P.Odum
3. Ecology by Mohan P. Arora
4. Fundamentals of Ecology by M.C. Dash
5. Environmental Science by S.C.Santra
6. An Introduction to Environmental Engineering & Science by Gilbert N Master
7. Encyclopaedia of Environmental Pollution and Control by R. K. Trivedi
8. Ecology and Sustainable development by P.S. Ramkrishana
9. Environmental Conservation; Fundamentals of Forestry Vol 5 by S.S. Negi, Bishen Singh, Mahendra Pal Singh

(Bachelor Of Sciences)
Semester (I)

Course Code	US01SENV51	Title of the Course	ENVIRONMENTAL STUDIES-1
Total Credits of the Course	02	Hours per Week	02

Course Objectives:	The Environmental Studies minor supplements other majors to facilitate students' understanding of complex environmental issues from a problem-oriented, interdisciplinary perspective. Students: 1. Appreciate concepts and methods from ecological and physical sciences and their application in environmental problem solving. 2. Appreciate the ethical, cross-cultural, and historical context of environmental issues and the links between human and natural systems. 3. Reflect critically about their roles and identities as citizens, consumers and environmental actors in a complex, interconnected world.

Course Content		
Unit	Description	Weightage* (%)
1.	**Unit I: The Environment and Ecosystem** 1.1 Environment and Environmental studies: Definition, concept, components and importance. 1.2 Ecosystem and Ecology: Structure and Function of ecosystem, Brief concept of Autecology and Synecology. 1.3 Food chain, food web and ecological pyramids . 1.4 Biogeochemical cycles in an ecosystems: (Carbon, Nitrogen and Phosphorous cycle) 1.5 Ecological succession: Definition, types, concept and process (Hydrosere, Xerosere and Lithosere).	50%
2.	**Unit 2 Environmental Pollution and Disaster Management** 2.1 Definition , causes, effects and control measures of : a. Air pollution b. Water pollution(thermal and marine pollution)	50%

	c. Land pollution d. Radiation pollution and Nuclear hazard. e. Noise pollution 2.2 Solid waste management: Causes , effects and control measures. 2.3 Global warming and climate change Ozone depletion 2.4 Acid rain: Causes , effects and control measures 2.5 Types and management of Natural disasters (Earthquakes; Droughts; Floods; Landslides).	

Teaching-Learning Methodology	Classroom interactions Multimedia presentation Chart/model presentation Student seminar and unit test, quiz etc Question bank circulation Students assignments Student counselling for any problem of subject understanding Student-Teacher interaction on social media platform for any query (MS team, Google classroom, email, etc)

Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal exam(only for BCA)	15%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3) Only for BCA	15%
3.	University Examination(only for BCA)	70%
4	For B.Sc.Students(only University Examination)	100%

Course Outcomes: The course will empower the undergraduate students by:	
1.	Gaining in-depth knowledge on natural processes that sustain life and govern economy
2.	Predicting the consequences of human actions on the web of life, global economy and quality of human life.
3.	Acquiring values and attitudes towards understanding complex environmental economic-social challenges, and participating actively in solving current environmental problems and preventing the future ones.
4.	Adopting sustainability as a practice in life, society and industry

Suggested References:	
Sr. No.	References
1.	Odum, E. P. (2005). Fundamentals of ecology. Cengage Learning India Pvt. Ltd., New Delhi. 5thedition.
2.	Singh, J. S., Singh, S. P., Gupta, S. (2006). Ecology Environment and Resource Conservation. Anamaya Publications, New Delhi, India.
3.	Sharma, P. D. Ecology and Environment. Rastogi Publications, Meerut, India. 13th edition.
4.	Wilkinson, D. M. (2007). Fundamental Processes in Ecology: An Earth Systems Approach. Oxford University Press. U.S.A.
5.	Kormondy, E. J. (1996). Concepts of ecology. PHI Learning Pvt. Ltd., Delhi, India. 4th edition

On-line resources to be used if available as refe
On-line Resources
Shodhganga
https://www.khanacademy.org/science/environmental

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SARDAR PATEL UNIVERSITY
B.Sc. SECOND SEMESTER
Skill Enhancement Compulsory Course (SECC)
Environmental Studies US02SENV21 (T)
Effective from June 2018
2 Credits, 2 periods per week
Total Marks 50, Internal -15 Marks, External-35 Marks, Exam duration: 2 hours

Unit 1: Environmental Pollution (7 lectures)

- Environmental pollution - Definition ; Air, Water, Soil and Noise pollution (Causes, Effects and Control)
- Nuclear hazards and human health risks/ effects
- Solid waste and its management: Control measures of urban and industrial waste

Unit 2: Environmental Issues & Policies (7 lectures)

Definition, Causes and impacts of following:

- Climate change
- Global warming
- Ozone layer depletion
- Acid rain

Environment Laws and Practices: Environment Protection Act; Wildlife Protection Act; Forest Conservation Act

Unit 3: Human Communities and Environment (8 lectures)

- Human population growth: Impacts on environment, human health and welfare (water, food and air borne diseases)
- Environmental communication and public awareness
- Environmental movements: Chipko and Narmada BachaoAndolan
- Disaster management: floods, earthquake, cyclone and landslides
- Resettlement and rehabilitation of project affected persons

Unit 4: Wildlife Management (8 lectures)

- Concepts of Wildlife Management
- Biodiversity: Types and Conservation in brief
- Wildlife of Gujarat -Threatened Species (Distribution, Habitat, Behaviour, Description, Food, Population of Asiatic Lion, Sloth Bear, Wild Ass, Pangolin, Black buck)
- Protected Areas Network: National Parks, Sanctuaries, Biosphere Reserves
- Special Projects of Endangered Species: Project Tiger, Project Elephant, Crocodile Breeding Project

Suggested Readings:

1. Basics of Environmental Studies by N.S. Varandani
2. Environmental Science by Y.K.Singh
3. Environmental Science by S.C.Santra
4. Environmental Studies by R.Rajagopalan
5. Textbook of Environmental Studies by D.K.Asthana& M. Asthana
6. Environmental Studies by Manoj Tivari, KapilKhulbel&ArchanaTiwari
7. Environmental Chemistry by A.K.De
8. Non-Conventional Energy Sources by G.D. Rai

(Bachelor Of Sciences)
Semester (II)

Course Code	US02SENV51	Title of the Course	ENVIRONMENTAL STUDIES-2
Total Credits of the Course	02	Hours per Week	02

Course Objectives:	The Environmental Studies minor supplements other majors to facilitate students' understanding of complex environmental issues from a problem-oriented, interdisciplinary perspective. Students: 1. Appreciate concepts and methods from ecological and physical sciences and their application in environmental problem solving. 2. Appreciate the ethical, cross-cultural, and historical context of environmental issues and the links between human and natural systems. 3. Reflect critically about their roles and identities as citizens, consumers and environmental actors in a complex, interconnected world.

Course Content

Unit	Description	Weightage* (%)
1.	**Natural Resources and their Conservation** 2.1 Forest Resources: Uses and overexploitation of forests and consequences of deforestation. 2.2 Water Resources: Use and consequences of over-utilization, concept of rain water harvesting and watershed management, water conflicts. 2.3 Food Resources: Sources of food, food problems- Indian scenario, Impacts of modern agriculture on environment (Fertilizer - pesticide problem, water logging and salinity), Organic farming. 2.4 Energy Resources: Renewable and Non-Renewable energy sources, Growing energy needs and alternate energy sources. 2.5 Land Resources: Global land use patterns, Soil erosion, Desertification, Wasteland Reclamation.	50%
2.	**Environment and Human health** 2.1 Human population growth and Family Welfare Programs. 2.2 Common diseases: Air borne diseases **(**Chicken Pox, Tuberculosis,Influenza, Meningitis), Water and food borne diseases **(**Cholera,Diarrhoea, Hepatitis, Malaria, Salmonellosis). 2.3 HIV/AIDS: Symptoms, causes, effect and control measures. 2.4 Drug addiction: Causes, symptoms and prevention; Drug abuse in India. 2.5 Role of IT in environment and human health.	50%

Teaching-Learning Methodology	Classroom interactions Multimedia presentation Chart/model presentation Student seminar and unit test, quiz etc Question bank circulation Students assignments Student counselling for any problem of subject understanding Student-Teacher interaction on social media platform for any query (MS team, Google classroom, email, etc)

Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1	UNIVERSITY EXAMINATION(B.Sc.)	100%

Course Outcomes: The course will empower the undergraduate students by:	
1.	Gaining in-depth knowledge on natural processes that sustain life and govern economy
2.	Predicting the consequences of human actions on the web of life, global economy and quality of human life.
3.	Acquiring values and attitudes towards understanding complex environmental economic-social challenges, and participating actively in solving current environmental problems and preventing the future ones.
4.	Adopting sustainability as a practice in life, society and industry

Suggested References:	
Sr. No.	References
1.	Odum, E. P. (2005). Fundamentals of ecology. Cengage Learning India Pvt. Ltd., New Delhi. 5thedition.
2.	Singh, J. S., Singh, S. P., Gupta, S. (2006). Ecology Environment and Resource Conservation. Anamaya Publications, New Delhi, India.

3.	Sharma, P. D. Ecology and Environment. Rastogi Publications, Meerut, India. 13th edition.
4.	Erach Bharucha ,Textbook for Environmental Studies
5.	Park's Text book of preventive and social medicine(25th edition)

On-line resources to be used if available as refe
On-line Resources
Shodhganga
https://www.khanacademy.org/science/environmental

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Bhartiya Vidya Bhavan's Shri Ishvarlal L.P. Arts - Sc. &

J. Shah Comm. College – Dakor, Dist. Kheda, Gujarat – 388225

POST GRADUATE DEPARTMENT (NAAC REACCREDITED – B GRADE)

M.Sc. Organic Chemistry Date:-09/02/2023

(1) Medicinal Chemistry

- To learn facts of the drug design, drug discovery pharmacodynamics and pharmacokinetics with the mechanism of action of biologically active compound.
- To familiarize with a different class of drugs.
- To understand the SAR of a different class of drugs and based on that, Students may be able to design the future target Molecules.
- HIV protrase inhibitors like Indinavir, and Ritonavir.

(2) Natural Products

- It includes the knowledge based on different class of natural products including their resources, Terpenoids, Alkoloids, Steroids and Vitamins.
- This course helps the students to understand the kind of organic molecules present in the plane kingdom and how to identify the structural identification by utilizing different chemistry concept.

- This course helps the students to understand some female & male hormones like Androgen, Testosterone, Gestrogens, Progesterone.

(3) Organic chemistry (Green Chemistry)

- To understand the role of chemical reagents in the oxidation, reduction and transformation of various functional group.
- Also understand the role of chemical reagents in green chemistry, Baker's yeast.
- To understand Knowledge to develop the eco-friendly technology.
- Take up global level research opportunities.
- Enhance the scientific temperature among the students as to develop a research culture and implementation of the policies to tackle the burning issues at global and local level.

PG M.Com

Entrepreneurship

Entrepreneurship development subject in M.Com Semester 3 and 4

Objective: To understand the basic concept of entrepreneurship.

Outcome:

Knowledge about entrepreneur, women entrepreneurs and problems faced by them, success stories of entrepreneurs, entrepreneural training and small business

Knowledge about entrepreneurship motivation, their development, about project report and appraisal are discussed.

After studying Project identification, preparation of project report, project evaluation, students can easily start their own business venture. It will help students to learn the actual reality.

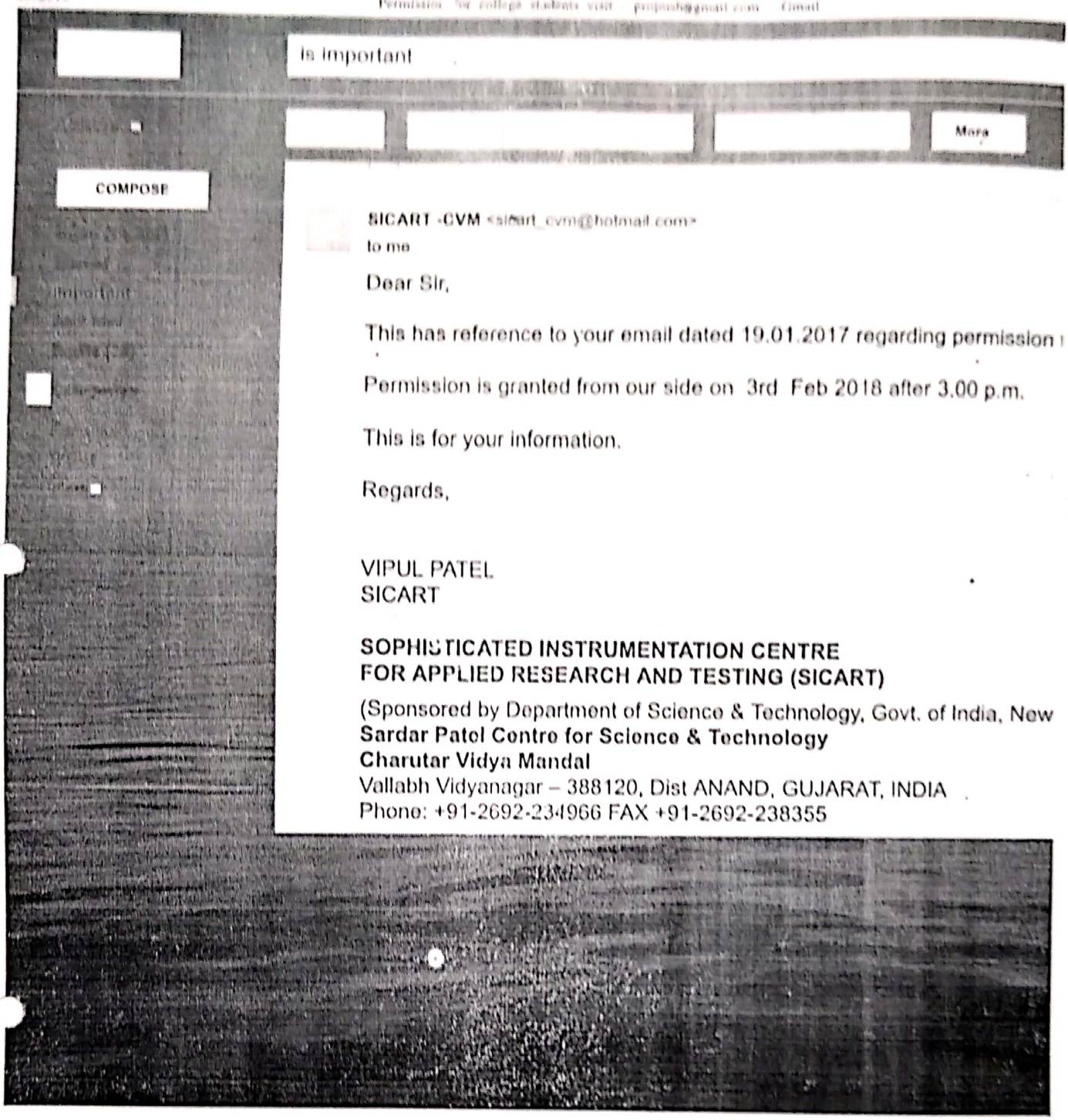
Knowledge about entrepreneurship motivation, their development, about project report and appraisal are discussed.

Outcomes:

Master of Arts(M.A)

PA02CGUJ51 Abundance of natural beauty, feelings full of common man's sufferings here in 'Nishith' and 'Dhavani', qualities of love, spirituality etc are visible in this anthology.
PA02CGUJ52 An exploration of all the virtues of human life
PA02EGUJ51 Gora's work shows spiritual contemplation and at the same time, the values of human life are eloquently discussed as the social knowledge bursts forth in the Virataparva of the Mahabharata.
PA02EGUJ52 is associated with spirituality and sometimes with knowledge and devotion.

PA04CGUJ51 Spirituality is nourished, intellectual qualities are cultivated.
PA04CGUJ52 Creative Study : In Sundaram's poems, novels and essays qualities like compassion, laughter, female consciousness, humanity, complex element of emotions, natural beauty etc. are visible in the content of this paper.
PA04EGUJ51 Qualities like heroism, bravery, compassion etc. are found here.
PA04EGUJ52 Stories of women's struggles, compassion, humiliation, atrocities etc. are here in this paper.



is important

More

COMPOSE

SICART -CVM <sicart_cvm@hotmail.com>
to me

Dear Sir,

This has reference to your email dated 19.01.2017 regarding permission

Permission is granted from our side on 3rd Feb 2018 after 3.00 p.m.

This is for your information.

Regards,

VIPUL PATEL
SICART

SOPHISTICATED INSTRUMENTATION CENTRE
FOR APPLIED RESEARCH AND TESTING (SICART)

(Sponsored by Department of Science & Technology, Govt. of India, New
Sardar Patel Centre for Science & Technology
Charutar Vidya Mandal
Vallabh Vidyanagar – 388120, Dist ANAND, GUJARAT, INDIA
Phone: +91-2692-234966 FAX +91-2692-238355

List of students visited Sicart Lab. at V.V. nagar

	Name of the student	MALE/	MOBILE
1	AYUSHI NILESHBHAI PATEL	FEMALE	8347426955
2	JYOTIBEN SHANABHAI VASAVA	FEMALE	7096499681
3	PARITIKA PRAVINBHAI PARMAR	FEMALE	9904491884
4	NIRAV MANOJKUMAR RANA	MALE	9925729070
5	MANSIBEN NITINKUMAR PATEL	FEMALE	7069324127
6	DHVANI RAJESHKUMAR SUTHAR	FEMALE	9825650975
7	MAHESHBHAI MAFATBHAI PARMAR	MALE	8758356825
8	DHRUV DASHRATHBHAI MAHERA	MALE	9726828617
9	KRISHNABEN ANILBHAI GOHIL	FEMALE	9998939617
10	DIPALBEN NILESHBHAI SUTHAR	FEMALE	7041732817
11	DEEP KIRITBHAI JOSHI	MALE	7383101460
12	VIVEKBHAI ATULKUMAR BHATIYA	MALE	8320416385
13	NAUSHINBANU JAVIDALI SAIYAD	FEMALE	8849054090
14	NIRMAL MUKESHBHAI RAJPUT	MALE	7359412897
15	FALAKJAHAN ZAKIRALI SAIYAD	FEMALE	9824600266
16	PRAPTI PANKAJKUMAR PATEL	FEMALE	8141490613
17	VIJAL SHAILESHBHAI SUTHAR	FEMALE	7069989024
18	NIDHI NIMESHBHAI JOSHI	FEMALE	7434890628
19	MILANKUMAR RAJENDRAKUMAR PATEL	MALE	7096505353
20	MITALBEN VIKRAMBHAI PATEL	FEMALE	8156043647
21	NITESHKUMAR JASAVANTBHAI RATHOD	MALE	9624385011
22	YOGESHKUMAR VINUBHAI PARMAR	MALE	7990839164
23	ARVINDSINH JASVANTBHAI SOLANKI	MALE	7698544878
24	ANKIT ASHOKBHAI PARMAR	MALE	7359793508
25	TINKALBEN MUKESHBHAI PATEL	FEMALE	7265803794
26	JAYKUMAR RAJUBHAI RATHOD	MALE	9726869829
27	VIRENDRASINH BHAILALBHAI GOHEL	MALE	7600979708
28	YASHVANTSINH BHARATSINH MAKWANA	MALE	8511936212
29	PRAXA KAMLESHBHAI PANCHAL	FEMALE	8238562676
30	MEHALIBEN DHANABHAI CHAVDA	FEMALE	9913408488
31	PAYAL CHHATRASINH PAGI	FEMALE	7874501117
32	NISHA AMRISHBHAI BHATT	FEMALE	9638876049
33	NAVAZSHARIF GULAMMAHAMMAD SAIYAD	MALE	9265126260
34	PRUTHVISINH SURESHSINH SOLANKI	MALE	8347919597
35	TAMANNBEN ASHWINBHAI GOHEL	FEMALE	9925324246
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