

Department of Biotechnology

**Proforma for submission of progress reports for Annual Review of Colleges supported under
Star College Scheme**

(Kindly note that the annual report from S.No. 6 to 10 should not be more than 10 A4 size sheets,
with font size 12pt and line spacing 1.5)

1	Name of the College	Shri Manibhai Virani & Smt. Navalben Virani Science College (Autonomous), Affiliated to Saurashtra University, Rajkot.				
2	Name of Coordinator, designation, Address, Phone nos	Er. Ravi S. Tank Head, Department of Industrial Chemistry, Shri Manibhai Virani & Smt. Navalben Virani Science College (Autonomous), Yogidham Gurukul, Kalawad Road, Rajkot, Gujarat- 360005 (India) Mobile No: 9099076114, 9825114015 Landline no: 0281-2562681 Extn : 2226				
3	Assessment Duration	01/06/2018 to 31/05/2020				
4	Assessment duration in years	02 years				
5	Details of Departments Supported	S N	Name of Department	Courses (B.Sc./M.Sc./PG) Offered	Regular Faculty Members Total = 27 With Ph.D.	Without Ph.D.
		1	Industrial Chemistry	B.Sc. M.Sc.	3	6
		2	Mathematics	B.Sc. M.Sc.	1	9
		3	Biology	Allied Course to Life Science (Ancillary Department)	4	--

		4	Physics	Allied Course to Chemical Science (Ancillary Department)	3	1
6	Number & Date of Advisory committee meeting:	<p>Date : 06th October 2018</p> <p>Minutes of the Meeting</p> <ul style="list-style-type: none"> • All Dept. Heads (Coordinators) presented their progress before the Mentoring Committee. • After presentation, constructive suggestions were given by experts followed by evaluative discussion and brainstorming on the impact of the DBT scheme and future planning activities. • The experts appreciated the efforts of the entire team for all activities carried out for achieving targeted outcome. The expert also gave critical suggestions for further betterment of implementation of the scheme. It was felt that the activities of the scheme has provided platform to nurture all the stakeholders. The activities carried out has promoted balanced learning, interdisciplinary learning, & learning beyond curriculum. Activities regarding popularization of science also have short of yield results. Expert lectures are acting both as a means of motivation as well as process for networking and expansion of facilities. 				
7	Qualitative improvements due to DBT support. Please highlight 5 salient points (within 500 words).	<ol style="list-style-type: none"> 1. Increased Academic-Industries & Academic – Academic interaction. 2. Increased interdepartmental activities & awareness among staff as well as students. 3. Creation of research ambience at UG level. 4. More number of faculty / staff enrichment programs and student centric activities. 5. Strengthening of teaching and learning resources. <p>For photographs of the activities conducted, Please refer Appendix-I.</p>				

8	Any Novel aspect introduced or planning to introduce during the Scheme duration.	<p>The college has introduced “Peer Tutoring : Think-Pair-Share” aspect to augment learner centric approach under the support under DBT Star Scheme:</p> <p>The conventional teaching learning methods have been augmented with peer tutoring & learning methods, in which students get opportunity to prepare, deliver & get enriched with knowledge of the allotted subject topic. The main goal of peer tutoring is “Think-Pair-Share” to help students who have not yet mastered a certain subject or skill. However, this technique does not exclude others. It does not replace whole-class instruction or individual work. Rather, it provides a way of helping students when these two things have not been enough for them to master the material at hand. It helps online students deepen their understanding and clarify the knowledge that they have already gained. Typically, a higher performing student is paired with a lower performing student to review critical academic or behavioral concepts.</p> <p>Minor research projects have been given to the students to increase the disciplinary, interdisciplinary & multi-disciplinary research aptitude among undergraduate students. Please refer Appendix-II.</p>
9	Lessons learnt / difficulties faced/ suggestions if any, in implementation of the program and utilization of DBT grant. (Max 3 points within 300 words).	<p>Due to implementation of Star College Scheme the college has gained upliftment in the following areas:</p> <ul style="list-style-type: none"> • Interdepartmental & Interdisciplinary Activities • Peer Tutoring • Participative Community Learning • Botanical Herbarium • Learning Commons <p>But along with the above, the supported departments of the college also faced some of the problems like:</p> <ul style="list-style-type: none"> • Business community hence less interest towards PG program. • More inclination of students towards professional courses like Engineering, MBBS etc.

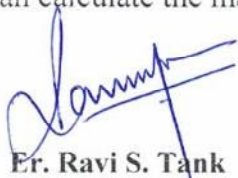
1. **Key performance indicators**

SN	Indicator	Pre-support								During /After Support							
1	No. of students admitted	Total = 223								Total = 236							
		M=152				F=71				M=100				F=136			
		SC	ST	OBC	G	SC	ST	OBC	G	SC	ST	OBC	G	SC	ST	OBC	G
		3	0	33	116	1	1	18	51	5	4	38	53	3	0	20	113
2	No. of students passing out (%) Students Admitted/ passing out (pass %)	91-100%								93-100%							
3	Drop-out rates	0-1%								<1%							
4	No. of students opting for M.Sc.	51								77							
5	Average marks	50 to 80%								50 to 90%							
6	No. of hands-on experiments being conducted	30								165							
7	No. of new experiments introduced	NIL								59 Please refer Annexure-I							
8	Publications (scopus indexed) /patents, if any.	01								06 Please refer Annexure-II							
9	Training received by faculty	45								110 Please refer Annexure-III							
10	Exhibitions/seminars/training courses conducted	02								06 Please refer Annexure-IV							
11	Books/ journals subscribed from grants	Nil								Please refer Annexure-V							
12	Outreach activities (Popular lectures)	01								15							
13	Colleges mentored to apply for DBT Star College grants	NA								NA							
14	Invited lectures	05								09 Please refer Annexure-VI							


2. Self Evaluation

Department	*Objective (as stated in proposal)	% achieved	Reasons for underachievement / If achieved, state in quantitative metrics
Industrial Chemistry, Mathematics, Biology, Physics	<ol style="list-style-type: none"> 1. To enhance the relevant knowledge base and skills of the students & teachers. 2. To encourage students/teachers to undergo specialized skill based trainings. 3. To enhance students creativity leading to original / live research projects and publications. 4. To enhance global competence to face / meet the global challenges. 5. To promote linkages / collaboration with industries / national laboratories / institutions. 6. To encourage interdisciplinary approach in teaching, learning and research. 7. To strengthened physical infrastructure leading to enhanced academic ambience and updated facilities. 8. To enhance library and ICT resources 	100%	Kindly refer to the key performance indicators above.

- For quantitative analysis you may fix five objective (max) each having 2 marks and accordingly can calculate the matrix.


Er. Ravi S. Tank
 Course Coordinator




Dr. K. D. Ladva
 Principal
 Shri Manibhai Virani and
 Smt. Navalben Virani Science College
 (Autonomous) Rajkot.

New Practicals Introduced

Sr. No.	Aim of Experiments(UG-2018-19)
1	To determine the specific gravity of given kerosene liquid sample.
2	To determine co efficient of discharge for a flow meter using closed circuit orifice meter.
3	To determine co efficient of discharge for a flow meter using closed circuit venturi meter.
4	To determine kinematic viscosity of kerosene using Saybolt viscometer
5	To prepare cellulose nitrate from raw cellulose.
6	To prepare biodegradable polymer film from starch without additives.
7	To prepare biodegradable polymer film from starch using addtives.
8	To determine pressure drop of ring main system.
9	To find moisture content of petroleum product by Karl-Fischer manual method.
10	To prepare paper from pulp by caustic soda process.
11	To examine the effect of decolorization of methylene blue using activated charcoal.
12	To electroplate copper on given object.
13	To scan the absorption spectrum of clay and to determine the wave length of maximum absorption by spectrophotometry.
14	To determine chlorine content in given common salt sample.
15	To determine calcium content in given gypsum sample.
16	To determine the % of baking soda using NaHCO ₃ powder.
17	To determine the unknown concentration of citric acid in given sample using washing soda solution.

Sr. No.	Aim of Experiments(UG-2019-20)
1	To study measurement of flow using rotameter.
2	To determine kinematic viscosity of kerosene using Redwood viscometer
3	To determine polymeric properties of cellulose acetate.
4	To determine polymeric properties of biodegradable polymer.
5	To determine polymeric properties of Dacron.
6	To determine element in polymer sample.
7	To determine the amount of copper in copper plating bath by gravimetry analysis.
8	To determine the amount of copper sulphate in copper plating bath.
9	To scan the absorption spectrum of clay and to determine % transmission of different concentrated sloution by spectrophotometry.
10	To determine the copper content in given sample.
11	To determine the zinc content in given sample.
12	To determine the Magnesium content in given sample.
13	To determine the chlorine content in given Hydrochloric acid.

Sr. No.	Aim of Experiments(UG-2019-20)
14	To crystallize common salt by heating process.
15	To separate acetic acid-water mixture using simple distillation.
16	To prepare phthalic anhydride from phthalic acid.
17	To prepare benzoic acid from toluene.
18	To prepare benzanilide from aniline.
19	To prepare phenyl benzoate from phenol.
20	To prepare iodoform from ethanol.
21	To prepare iodoform from acetone.
22	To prepare m-dinitrobenzene from benzene.
23	To prepare p-nitroacetanilide from acetanilide.
24	To prepare p-bromoacetanilide from acetanilide.
25	To prepare 2,4,6-tribromophenol from phenol.
26	To prepare 2,4,6-tribromoaniline from aniline.
27	To prepare aniline from dinitrobenzene.
28	To determine the smoke point of petrol.
29	To determine the flash and fire point of petrol.
30	To estimate Cephalaxin in the given sample.
31	To determine the Aspirin content in the given sample.

Research Publication Details

2018-19- Research papers

Sr. No	Name of faculty	Title of the paper	Year
1.	Dr. Mehul L. Savaliya	Eco-friendly process for the preparation of biodiesel from WFO over reusable MTSA-Si catalyst: A promising approach for the utilization of side product, Journal of Industrial and Engineering Chemistry , 64, 352-366 DOI: https://doi.org/10.1016/j.jiec.2018.03.036 .	2018-19
2.	Mr. Anand V. Khistariya	Dynamic Behaviors of Water Droplet Impacting Antiwetting Plant Leaves. Research Journal of Chemical Sciences, Volume 9(2), 2019, pp 16-23.	2018-19
3.	Dr. Pankaj M. Akbari	“Synthesis and Biological Screening of N-(4-(6-Amino-5-cyano-4-aryl-pyridin-2-yl)phenyl) cyclopropane Carboxamide”	2018-19
4.	Dr. Pankaj M. Akbari	“Synthesis and Biological Evaluation of N-(4-(5-Aryl-4, 5-Dihydro-1H-Pyrazol-3-yl)Phenyl) Cyclopropane Carboxamide”	2018-19

Sr. No	Name of faculty	Title of the paper	Year
1	Er. Ravi S. Tank	Proceeding of two days national conference on PANCHATATVA in civil engineering – Integrating five elements of nature for sustainable development sponsored by Savitribai Phule Pune University, Pune. Entitled “Energy from industrial waste as a substitute for fuel-coal & utilization of pollutant: CO ₂ for algae formation”	2019-20
2	Dr. Mehul L. Savaliya	Non-traditional insights into the cleaner production of biodiesel from lower	2019-20

		cost feedstock using novel reusable mesostructured catalyst, Journal of Cleaner Production. (Communicated, JCLEPRO-S-20-06446). (Communicated)	
3	Dr. Govind V Vagadiya	Synthesis and Antimicrobial Activity of 2-[[4'-Arylidine-5'-oxo-2'-phenyl) Imidazolyl]-1'-Y1}-3-Keto-1,5-Dimethyl-2-Phenyl Pyrazole Journal of Applicable Chemistry 2019, 8 (1): 107-111 (International Peer Reviewed Journal) ISSN: 2278-1862	2019-20
4	Dr. Govind V Vagadiya	Synthesis and Antimicrobial Activity of 2-[[4'-Arylidine-5'-Oxo-2'-Phenyl) Imidazolyl]-1'-Y1}-3-(4-Hydroxyphenyl) Propanoic Acids Journal of Applicable Chemistry 2019, 8 (2): 680-684 (International Peer Reviewed Journal) ISSN: 2278-1862	2019-20
5	Dr. Pankaj M. Akbari	Synthesis, Characterization and Biological Evaluation of Ethyl-4'-(cyclopropane carboxamido-N-yl)-5-ary-3-oxo-3,4,5,6-tetrahydro-biphenyl-4-carboxylate	2019-20

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Journal of Industrial and Engineering Chemistry

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Announcements

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Department of Mathematics

Research papers

Sr. No	Name of faculty	Title of the paper	Year
1.	Dr.Parag Ajani	On Restrained Domination Number of Graphs ” in International Journal of Mathematics and Soft Computing, Vol.8, No.1 (2018), 17 – 23 with ISSN: 2319-5215.	2018-19
2.	Dr.Parag Ajani	Parag Ajani :Published paper entitled “On Restrained Domination Number of Some Wheel Related Graphs” in Malaya Journal of Matematik, Vol.7, No.1 (2019), 104 – 107 with ISSN: 2321-5666	2018-19
3. .	Dr.Parag Ajani	Parag Ajani :Published paper entitled “On Restrained Edge Dominating Set of Graphs” in Malaya Journal of Matematik, Vol.8, No.1 (2020), 28-31 with ISSN: 2321-5666.	2019-20

Training Received by Faculty

- **Online FDP** series Phase-I, II and III on “Rubrics as an assessment tool”
- FDP/Training of Microsoft Teams for Online Teaching
- Teachers Enrichment Workshop (**TEW**) on *Galois Theory and Complex Analysis* organized by National Centre for Mathematics and TIFR held at St. Berchman’s College (Autonomous), Changanacherry, Kerala
- Smart Learning DBT-STAR scheme college, Bengaluru
- Faculty Awareness Program Mechanical Engineering Department, JSPM’s Jayawantrao Sawant College of Engineering Hadapsar Pune -028
- Training on LaTeX, Sheth P.T. Mahila College of Arts & Home science, Surat (gujarat)
- Training on Python 3.4.3 ,Anand International College of Engineering
- The winter training programme was conducted by Shree M & N Virani Science College (Autonomous), Rajkot from 27th November, 2019 to 31st November, 2019 for preparation of different remedial botanical products by F. Y. B. Sc. Students (45).

Seminar/Workshop/FDP Details

Seminar/conference attended

DEPARTMENT OF MATHEMATICS

Sr. No.	TOPIC OF THE SEMINAR/ WORKSHOP/ TRAINING/FDP	CLASS	Number of Participants	DATE
1.	Lecture on Higher Mathematical Dimension and it's impact and interpretation in real life	F.Y. & T.Y. B.Sc.	200	06/01/2017
2.	Lecture on Introduction to GeoGebra	F.Y. B.Sc.	74	07/01/2017
3.	Lecture on Introduction to SAGE	T.Y. B.Sc.	61	12/01/2017
4.	Workshop on Goal setting and career planning	F.Y. M.Sc. & T.Y. B.Sc.	57	14/06/2017 to 21/06/2017
5.	Lecture on Review Article writing in Mathematics	S.Y. & T.Y. B.Sc.	50	23/06/2017
6.	Seminar on Introduction to GeoGebra	S.Y. B.Sc.	71	24/06/2017
7.	Workshop on Problem solving strategies in mathematics competitions	S.Y. & T.Y. B.Sc.	108	01/09/2017
8.	Guest lecture on Applications of mathematics in computer science	S.Y. & T.Y. B.Sc.	122	13/09/2017
9.	Seminar on Introduction to SAGE	T.Y B.Sc.	58	15/12/2017
10.	Seminar on Introduction to GeoGebra	F.Y B.Sc.	82	16/12/2017
11.	Guest Lecture on Problem Solving Strategies	T.Y B.Sc. & M.Sc.	81	22/12/2017
12.	Guest Lecture on Life and Work of Srinivasa Ramanujan	T.Y B.Sc. & M.Sc.	82	22/12/2017
13.	Poster Presentation Competition	UG & PG Students	74	24/03/2018
14.	Review Article Writing in Mathematics	T.Y. B.Sc.	88	05/07/2018
15.	Awareness Seminar on Stand-alone Solar Power System	F.Y. & T.Y. B.Sc.	73	19/09/2018
16.	State Level Workshop on Introduction to GeoGebra	Faculties from Various Colleges	35	14/10/2018
17.	Regional Level Workshop on Introduction to GeoGebra	F.Y. B.Sc.(VSC + AU)	102	19/12/2018 to 20/12/2018
18.	Rangoli Competition on Mathematical Concepts (Celebration of National Mathematics Day-2018)	B.Sc. (VSC+AU+GY)	49	22/10/2018
19.	Workshop on Study of Mathematics as a Career	T.Y. B.Sc.	66	02/03/2019

20.	Seminar on Career Counseling & Goal Setting	T.Y. B.Sc.	37	28/2/2019
21.	Seminar on Introduction to SCILAB	S.Y. B.Sc.	49	3/7/2019
22.	Seminar on Review Article Writing In Mathematics	T.Y. B.Sc. (VSC+ GY)	64	18/7/2019
23.	Mathematics Quiz Competition	F.Y.+S.Y.+T.Y .B.Sc. (VSC+AU+GY)	33	5/9/2019
24.	Celebration of National Mathematics Day-2019	VSC+AU	259	21/12/2019

**List of FDPs
Organized by
DEPARTMENT OF MATHEMATICS**

Sr. No.	TOPIC OF THE SEMINAR/ WORKSHOP/ TRAINING/FDP	CLASS	Number of Participa nts	DATE
1	State Level Workshop/FDP on Introduction to GeoGebra	Faculties from Various Colleges	35	14/10/2018
2	FDP/Training of Microsoft Teams for Online Teaching	College Faculties	29	27/6/2020

DEPARTMENT OF INDUSTRIAL CHEMISTRY

Sr. No	Name of faculty	Title of seminar	Date
1.	Dr. Mehul L. Savaliya	International Lecture Workshop organized on 13 th & 14 th August, 2019, in joint collaboration of Atmiya University, Rajkot and University of Miyazaki, Japan.	13 th & 14 th August, 2019
2.	Dr. Mehul L. Savaliya	e-FACULTY DEVELOPMENT PROGRAMME (e-FDP) On "Redefining the role of Educator in Covid-19 outbreak era" Jointly organized by Anand pharmacy college & GTU Ahmedabad.	11th May 2020 to 16th May 2020

3.	Dr. Mehul L. Savaliya	Two days state level webinar on HPLC Instrumentation Technique & Mass Spectrometry in the subject of chemistry, organized by Department of Chemistry, C.B Patel Computer College and J.N.M Patel Science College, Surat.	23-24/05/2020.
4.	Dr. Mehul L. Savaliya	STEM, STEAM, and STREAM... What Do They Have in Common? Science, Technology, Engineering and Mathematics., edweb.net- a professional learning network.	14/05/2020
5.	Dr. Mehul L. Savaliya	An International Web Conference on Science, Engineering & Technology (IWCSET-2020), organized by Society for Technologically Advanced Material of India (STAMI).	15-16, May, 2020.
6.	Mr. Anand V. Khistariya	26 th International Conference & Meeting of Magnetic Resonance Society on NMR from Molecules to Human Behavior and Beyond organized by Department of Chemistry, Saurashtra University, Rajkot, India	18 th to 21 st February, 2020

List of Book Procured (Annexure-V)

ISBN	Class No.	Book No.	Author	Title	Edition	Publisher	Year of Pub.	Budget Year	Cost
	570	AGG/Cor	Aggarwal, S.K.	Core science biology: for class 9 with CD		Goyal brothers prakashan	2011	2018-2019	148.00
978-81-8989-349-1	570	SET/Bio	Seth, C.K.; Goel, Mamta; Chauhan, Arti	Biology: formative & summative assessment approach in science	1st rev. ed.	Prachi [India] Pvt.Ltd.	2007 (2012-13)	2018-2019	200.00
978-93-525-3527-9	580	PAN/Bot	Pandey, B.P.	Botany for degree students: biodiversity B.Sc.Sem.- I	1st ed.	S.Chand and Company Ltd	2017 (2018)	2018-2019	365.00
978-93-525-3528-6	580	PAN/Bot	Pandey, B.P.	Botany for degree students: Plant ecology and taxonomy B.Sc.Sem.- II	1st ed.	S.Chand and Company Ltd	2018	2018-2019	300.00
978-93-525-3529-3	580	PAN/Bot	Pandey, B.P.	Botany for degree students: Plant anatomy and Embryology B.Sc.Sem.- III	1st ed.	S.Chand and Company Ltd	2018	2018-2019	300.00
978-93-525-3411-1	590	AGA/Zoo	Agarwal, V.K.	Zoology for degree students: Ecology B.Sc.(Hons.) Sem.- I	1st ed.	S.Chand and Company Ltd	2017 (2018)	2018-2019	425.00
978-93-525-3438-8	590	AGA/Zoo	Agarwal, V.K.	Zoology for degree students: Cell biology B.Sc.(Hons.) Sem.- II	1st ed.	S.Chand and Company Ltd	2018	2018-2019	495.00
978-81-219-0367	560	JOR-VER	Jordan, E. L.; Verma, P. S.	Invertebrate zoology	1st.rev.ed.	S.Chand & Company Ltd.	1963 (2018)	2018-2019	825.00
978-93-5134-016-4	363.73	ARO/Ref	Arora, C.A.	Refrigeration and air conditioning	3rd ed.	McGraw Hill Education(India) Private Limited	2016	2018-2019	715.00
978-93-5134-016-4	363.73	ARO/Ref	Arora, C.A.	Refrigeration and air conditioning	3rd ed.	McGraw Hill Education(India) Private Limited	2016	2018-2019	715.00
978-93-5134-016-4	363.73	ARO/Ref	Arora, C.A.	Refrigeration and air conditioning	3rd ed.	McGraw Hill Education(India) Private Limited	2016	2018-2019	715.00
978-93-5134-016-4	363.73	ARO/Ref	Arora, C.A.	Refrigeration and air conditioning	3rd ed.	McGraw Hill Education(India) Private Limited	2016	2018-2019	715.00
978-93-5134-016-4	363.73	ARO/Ref	Arora, C.A.	Refrigeration and air conditioning	3rd ed.	McGraw Hill Education(India) Private Limited	2016	2018-2019	715.00
978-93-866-0218-3	334.714	PAL-GHO	Pal, Indrajit; Ghosh, Tuhin	Natural hazards management in aisa	1st ed.	Sage publications india pvt ltd	2018	2018-2019	1250.00
978-93-866-0218-3	334.714	PAL-GHO	Pal, Indrajit; Ghosh, Tuhin	Natural hazards management in aisa	1st ed.	Sage publications india pvt ltd	2018	2018-2019	1250.00
978-93-866-0218-3	334.714	PAL-GHO	Pal, Indrajit; Ghosh, Tuhin	Natural hazards management in aisa	1st ed.	Sage publications india pvt ltd	2018	2018-2019	1250.00
978-93-866-0218-3	334.714	PAL-GHO	Pal, Indrajit; Ghosh, Tuhin	Natural hazards management in aisa	1st ed.	Sage publications india pvt ltd	2018	2018-2019	1250.00

978-93-866-0218-3	334.714	PAL-GHO	Pal, Indrajit; Ghosh, Tuhin	Natural hazards management in aisa	1st ed.	Sage publications india pvt ltd	2018	2018-2019	1250.00
978-81-317-0600-8	620.11	VAN/Ele	Van vlack, Lawrence H.	Elements of material science and engineering	6th ed.	Pearson education, Inc.	2014	2018-2019	789.00
978-81-317-0600-8	620.11	VAN/Ele	Van vlack, Lawrence H.	Elements of material science and engineering	6th ed.	Pearson education, Inc.	2014	2018-2019	789.00
978-81-317-0600-8	620.11	VAN/Ele	Van vlack, Lawrence H.	Elements of material science and engineering	6th ed.	Pearson education, Inc.	2014	2018-2019	789.00
978-81-203-5220-9	658.151	SUL/Dis	Sulphey, M.M.	Disaster management		PHI Learning Private Ltd.	2016	2018-2019	395.00
978-81-203-5220-9	658.151	SUL/Dis	Sulphey, M.M.	Disaster management		PHI Learning Private Ltd.	2016	2018-2019	395.00
978-81-203-4846-2	660.2815	SAR/Pro	Sarkar, Prabir kumar	Process dynamics and control		PHI Learning Private Ltd.	2014	2018-2019	695.00
978-81-203-4846-2	660.2815	SAR/Pro	Sarkar, Prabir kumar	Process dynamics and control		PHI Learning Private Ltd.	2014	2018-2019	695.00
978-81-203-4846-2	660.2815	SAR/Pro	Sarkar, Prabir kumar	Process dynamics and control		PHI Learning Private Ltd.	2014	2018-2019	695.00
978-81-203-4846-2	660.2815	SAR/Pro	Sarkar, Prabir kumar	Process dynamics and control		PHI Learning Private Ltd.	2014	2018-2019	695.00
978-81-203-4846-2	660.2815	SAR/Pro	Sarkar, Prabir kumar	Process dynamics and control		PHI Learning Private Ltd.	2014	2018-2019	695.00
978-81-7371-656-0	658.151	SHA-KRI	Shaw, Rajib; Krishnamurthy, R.R.	Disaster management: global challenges and local solutions	1st ed.	Universities Press (India) Private Limited	2009 (2016)	2018-2019	950.00
978-81-7371-656-0	658.151	SHA-KRI	Shaw, Rajib; Krishnamurthy, R.R.	Disaster management: global challenges and local solutions	1st ed.	Universities Press (India) Private Limited	2009 (2016)	2018-2019	950.00
978-81-7371-656-0	658.151	SHA-KRI	Shaw, Rajib; Krishnamurthy, R.R.	Disaster management: global challenges and local solutions	1st ed.	Universities Press (India) Private Limited	2009 (2016)	2018-2019	950.00
978-81-7371-656-0	658.151	SHA-KRI	Shaw, Rajib; Krishnamurthy, R.R.	Disaster management: global challenges and local solutions	1st ed.	Universities Press (India) Private Limited	2009 (2016)	2018-2019	950.00
978-81-7371-656-0	658.151	SHA-KRI	Shaw, Rajib; Krishnamurthy, R.R.	Disaster management: global challenges and local solutions	1st ed.	Universities Press (India) Private Limited	2009 (2016)	2018-2019	950.00
978-0-07-061768-1	658.151	DES/Ind	Deshmukh, L.M.	Industrial safety management: Hazard identification and control	4th rep ed.	Mc Graw Hill Education(India) Private Limited	2018	2018-2019	885.00
978-0-07-061768-1	658.151	DES/Ind	Deshmukh, L.M.	Industrial safety management: Hazard identification and control	4th rep ed.	Mc Graw Hill Education(India) Private Limited	2018	2018-2019	885.00
978-0-07-061768-1	658.151	DES/Ind	Deshmukh, L.M.	Industrial safety management: Hazard identification and control	4th rep ed.	Mc Graw Hill Education(India) Private Limited	2018	2018-2019	885.00

978-93-83750-62-7	664.056 60	DHO/Pla	Dhone, D.B.	Plant utilities	4th ed.	CBS Publishers & Distibutors pvt.ltd	2017	2018-2019	220.00
978-81-265-4126-3	670.427	SEB/Pro	Seborg, Dale E.; ...[et al.]	Process dynamics and control	3rd ed.	Wiley India Pvt. Ltd.	2011	2018-2019	769.00
978-81-265-4126-3	670.427	SEB/Pro	Seborg, Dale E.; ...[et al.]	Process dynamics and control	3rd ed.	Wiley India Pvt. Ltd.	2011	2018-2019	769.00
978-81-265-4126-3	670.427	SEB/Pro	Seborg, Dale E.; ...[et al.]	Process dynamics and control	3rd ed.	Wiley India Pvt. Ltd.	2011	2018-2019	769.00
978-81-265-4126-3	670.427	SEB/Pro	Seborg, Dale E.; ...[et al.]	Process dynamics and control	3rd ed.	Wiley India Pvt. Ltd.	2011	2018-2019	769.00
978-81-265-4126-3	670.427	SEB/Pro	Seborg, Dale E.; ...[et al.]	Process dynamics and control	3rd ed.	Wiley India Pvt. Ltd.	2011	2018-2019	769.00
978-0-4115-72308-4	613	MBE-FER	MBE, Phil Hughes; Ferrett, Ed	Introduction to health and safety at work: for the NEBOSH national general certificate in occupational health and safety	6th ed.	Routledge taylor & francis group	2003 (2016)	2018-2019	4793.06
978-0-4115-72308-4	613	MBE-FER	MBE, Phil Hughes; Ferrett, Ed	Introduction to health and safety at work: for the NEBOSH national general certificate in occupational health and safety	6th ed.	Routledge taylor & francis group	2003 (2016)	2018-2019	4793.06
978-0-4115-72308-4	613	MBE-FER	MBE, Phil Hughes; Ferrett, Ed	Introduction to health and safety at work: for the NEBOSH national general certificate in occupational health and safety	6th ed.	Routledge taylor & francis group	2003 (2016)	2018-2019	4793.06
978-0-4115-72308-4	613	MBE-FER	MBE, Phil Hughes; Ferrett, Ed	Introduction to health and safety at work: for the NEBOSH national general certificate in occupational health and safety	6th ed.	Routledge taylor & francis group	2003 (2016)	2018-2019	4793.06
978-0-4115-72308-4	613	MBE-FER	MBE, Phil Hughes; Ferrett, Ed	Introduction to health and safety at work: for the NEBOSH national general certificate in occupational health and safety	6th ed.	Routledge taylor & francis group	2003 (2016)	2018-2019	4793.06
978-0-4115-72308-4	613	MBE-FER	MBE, Phil Hughes; Ferrett, Ed	Introduction to health and safety at work: for the NEBOSH national general certificate in occupational health and safety	6th ed.	Routledge taylor & francis group	2003 (2016)	2018-2019	4793.06
978-0-87170-858-8	669.96	VER/Ste	Verhoeven, John D.	Steel metallurgy: for the non-metallurgy	1st rep ed.	Asm international	2007 (2014)	2018-2019	9.00
978-81-88449-23-1	615.191	SAN/Dis	S.,Sanmathi B.; Mehta, Kalpesh K.; Gupta, Ansha	Dispensing pharmacy: a practical manual	3rd ed.	PharmaMed press BSP Books Pvt.Ltd.	2016	2018-2019	495.00
978-81-88449-23-1	615.191	SAN/Dis	S.,Sanmathi B.; Mehta, Kalpesh K.; Gupta, Ansha	Dispensing pharmacy: a practical manual	3rd ed.	PharmaMed press BSP Books Pvt.Ltd.	2016	2018-2019	495.00
978-81-88449-23-1	615.191	SAN/Dis	S.,Sanmathi B.; Mehta, Kalpesh K.; Gupta, Ansha	Dispensing pharmacy: a practical manual	3rd ed.	PharmaMed press BSP Books Pvt.Ltd.	2016	2018-2019	495.00

978-81-88449-23-1	615.191	SAN/Dis	S.,Sanmathi B.; Mehta, Kalpesh K.; Gupta, Ansha	Dispensing pharmacy: a practical manual	3rd ed.	PharmaMed press BSP Books Pvt.Ltd.	2016	2018-2019	495.00
978-81-88449-23-1	615.191	SAN/Dis	S.,Sanmathi B.; Mehta, Kalpesh K.; Gupta, Ansha	Dispensing pharmacy: a practical manual	3rd ed.	PharmaMed press BSP Books Pvt.Ltd.	2016	2018-2019	495.00
978-81-7800-116-6	620.11	AGA/Che	Agarwal, C.V.; Murthy, C Parameswara; Naidu, Andra	Chemistry of engineering materials	9th ed.	BS Publications Books Pvt.Ltd.	2017	2018-2019	550.00
978-81-7800-116-6	620.11	AGA/Che	Agarwal, C.V.; Murthy, C Parameswara; Naidu, Andra	Chemistry of engineering materials	9th ed.	BS Publications Books Pvt.Ltd.	2017	2018-2019	550.00
978-81-7800-116-6	620.11	AGA/Che	Agarwal, C.V.; Murthy, C Parameswara; Naidu, Andra	Chemistry of engineering materials	9th ed.	BS Publications Books Pvt.Ltd.	2017	2018-2019	550.00
978-81-7800-116-6	620.11	AGA/Che	Agarwal, C.V.; Murthy, C Parameswara; Naidu, Andra	Chemistry of engineering materials	9th ed.	BS Publications Books Pvt.Ltd.	2017	2018-2019	550.00
978-81-7800-116-6	620.11	AGA/Che	Agarwal, C.V.; Murthy, C Parameswara; Naidu, Andra	Chemistry of engineering materials	9th ed.	BS Publications Books Pvt.Ltd.	2017	2018-2019	550.00
978-81-318-0454-4	613	GUP/Ind	Gupta, A.K.	Industrial safety and environment	2nd ed.	University science press	2008 (2015)	2018-2019	275.00
978-81-318-0454-4	613	GUP/Ind	Gupta, A.K.	Industrial safety and environment	2nd ed.	University science press	2008 (2015)	2018-2019	275.00
978-81-318-0454-4	613	GUP/Ind	Gupta, A.K.	Industrial safety and environment	2nd ed.	University science press	2008 (2015)	2018-2019	275.00
978-81-318-0454-4	613	GUP/Ind	Gupta, A.K.	Industrial safety and environment	2nd ed.	University science press	2008 (2015)	2018-2019	275.00
978-81-318-0454-4	613	GUP/Ind	Gupta, A.K.	Industrial safety and environment	2nd ed.	University science press	2008 (2015)	2018-2019	275.00
978-93-392-0515-7	515.9	BRO-CHO	Brown, James Ward; Churchill, Ryel V.	Complex variables and applications	8th ed.	Mc Graw Hill Education(India) Private Limited	2014 (2018)	2018-2019	685.00
978-93-392-0515-7	515.9	BRO-CHO	Brown, James Ward; Churchill, Ryel V.	Complex variables and applications	8th ed.	Mc Graw Hill Education(India) Private Limited	2014 (2018)	2018-2019	685.00
978-93-392-0515-7	515.9	BRO-CHO	Brown, James Ward; Churchill, Ryel V.	Complex variables and applications	8th ed.	Mc Graw Hill Education(India) Private Limited	2014 (2018)	2018-2019	685.00
978-93-392-0515-7	515.9	BRO-CHO	Brown, James Ward; Churchill, Ryel V.	Complex variables and applications	8th ed.	Mc Graw Hill Education(India) Private Limited	2014 (2018)	2018-2019	685.00
978-93-392-0515-7	515.9	BRO-CHO	Brown, James Ward; Churchill, Ryel V.	Complex variables and applications	8th ed.	Mc Graw Hill Education(India) Private Limited	2014 (2018)	2018-2019	685.00

978-93-87620-64-3	001.424	GUP/Ope	Gupta, R.K.	Operations research	37th ed.	Krishna Prakashan Media (P) Ltd.	2018	2018-2019	575.00
978-93-87620-64-3	001.424	GUP/Ope	Gupta, R.K.	Operations research	37th ed.	Krishna Prakashan Media (P) Ltd.	2018	2018-2019	575.00
978-93-87620-64-3	001.424	GUP/Ope	Gupta, R.K.	Operations research	37th ed.	Krishna Prakashan Media (P) Ltd.	2018	2018-2019	575.00
978-0-19-566665-6	510	PRA/Oxf	Prakash, Ravi	Oxford Mathematics: basic concepts and practice class X		Oxford University Press	2007	2018-2019	220.00
81-219-2738-2	510	DAS/Sch	Dass, H.K.; Verma, Rama; Sharma, Bhagwat Swarup	S.Chand's mathematics: for class IX term-1	1st rev. ed.	S.Chand & company pvt.ltd.	2003 (2012)	2018-2019	225.00
81-219-3846-5	510	DAS/Sch	Dass, H.K.; Verma, Rama; Sharma, Bhagwat Swarup	S.Chand's mathematics: for class IX term-2	1st rev. ed.	S.Chand & company pvt.ltd.	2011 (2012)	2018-2019	250.00
978-81-309-1673-6	510	ABH/Sta	Abhijit, Monicaa	Start up mathematics: cce edition book 8	1st rep ed.	Viva education private limited	2012 (2013)	2018-2019	275.00
978-9350-411-53-1	510	WAD-LOO	Wadhwa, Kusum; Loomba, Anju	Mathematics	New ed.	Saraswati house pvt.ltd.		2018-2019	280.00
81-7450-634-9	510	NAT/Mat	National Council of Educational Research and Training	Mathematics: textbook for class X	1st rep ed.	National Council of Educational Research and Training	2006	2018-2019	90.00
978-0-8247-7915-3	511.322	HRB-INT	Hrbacek, Karel; Jech, Thomas	Introduction to set theory	3rd rev. ed.	CRC Press taylor & francis group	1999	2018-2019	6673.06
978-1-84628-369-7	512.943 4	SEA/Met	Searcoid, Micheal O.	Metric spaces	New ed.	Springer undergraduate mathematics series	2007	2018-2019	2890.37
978-1-84628-369-7	512.943 4	SEA/Met	Searcoid, Micheal O.	Metric spaces	New ed.	Springer undergraduate mathematics series	2007	2018-2019	2890.37
978-1-84628-369-7	512.943 4	SEA/Met	Searcoid, Micheal O.	Metric spaces	New ed.	Springer undergraduate mathematics series	2007	2018-2019	2890.37
978-1-84628-369-7	512.943 4	SEA/Met	Searcoid, Micheal O.	Metric spaces	New ed.	Springer undergraduate mathematics series	2007	2018-2019	2890.37
978-1-84628-369-7	512.943 4	SEA/Met	Searcoid, Micheal O.	Metric spaces	New ed.	Springer undergraduate mathematics series	2007	2018-2019	2890.37
978-93-85935-14-5	001.424	SHA/Ope	Sharma, J.K.	Operations research: theory and applications	6th ed.	Trinity press	1997 (2017)	2018-2019	695.00
978-93-85935-14-5	001.424	SHA/Ope	Sharma, J.K.	Operations research: theory and applications	6th ed.	Trinity press	1997 (2017)	2018-2019	695.00
978-93-85935-14-5	001.424	SHA/Ope	Sharma, J.K.	Operations research: theory and applications	6th ed.	Trinity press	1997 (2017)	2018-2019	695.00

978-93-85935-14-5	001.424	SHA/Ope	Sharma, J.K.	Operations research: theory and applications	6th ed.	Trinity press	1997 (2017)	2018-2019	695.00
978-93-85935-14-5	001.424	SHA/Ope	Sharma, J.K.	Operations research: theory and applications	6th ed.	Trinity press	1997 (2017)	2018-2019	695.00
978-0-521-35732-6	512.943 4	COP/Met	Copson, E.T.	Metric spaces	1st rep. ed.	Cambridge University Press	1968 (2008)	2018-2019	3586.26
978-0-521-35732-6	512.943 4	COP/Met	Copson, E.T.	Metric spaces	1st rep. ed.	Cambridge University Press	1968 (2008)	2018-2019	3586.26
978-0-521-35732-6	512.943 4	COP/Met	Copson, E.T.	Metric spaces	1st rep. ed.	Cambridge University Press	1968 (2008)	2018-2019	3586.26
978-0-486-63829-4	511.322	STO/Set	Stoll, Robert R.	Set theory and logic		Dover publications, Inc.	1979 (2017)	2018-2019	1654.69
978-0-486-63829-4	511.322	STO/Set	Stoll, Robert R.	Set theory and logic		Dover publications, Inc.	1979 (2017)	2018-2019	1654.69
978-0-486-63829-4	511.322	STO/Set	Stoll, Robert R.	Set theory and logic		Dover publications, Inc.	1979 (2017)	2018-2019	1654.69
978-0-486-63829-4	511.322	STO/Set	Stoll, Robert R.	Set theory and logic		Dover publications, Inc.	1979 (2017)	2018-2019	1675.35
978-0-486-63829-4	511.322	STO/Set	Stoll, Robert R.	Set theory and logic		Dover publications, Inc.	1979 (2017)	2018-2019	1675.35
978-81-7319-269-2	512	GAL/Con	Gallian, Joseph A.	Contemporary abstract Algebra	4th ed.	Narosa Publishing House	1999	2018-2019	450.00
978-81-7319-269-2	512	GAL/Con	Gallian, Joseph A.	Contemporary abstract Algebra	4th ed.	Narosa Publishing House	1999	2018-2019	450.00
978-81-7319-269-2	512	GAL/Con	Gallian, Joseph A.	Contemporary abstract Algebra	4th ed.	Narosa Publishing House	1999	2018-2019	450.00
978-81-7319-269-2	512	GAL/Con	Gallian, Joseph A.	Contemporary abstract Algebra	4th ed.	Narosa Publishing House	1999	2018-2019	450.00
978-81-7319-269-2	512	GAL/Con	Gallian, Joseph A.	Contemporary abstract Algebra	4th ed.	Narosa Publishing House	1999	2018-2019	450.00
978-81-219-0281-6	001.424	GUP-HIR	Gupta, Prem Kumar; Hira, D. S.	Operations Research	7th.ed.	S.Chand & Company Ltd.	1979 (2018)	2018-2019	650.00
978-81-219-0472-8	515	NAR-MIT	Narayan, Shanti; Mittal, P.K.	A Course of Mathematical Analysis	1st.rev.ed.	S.Chand & Company Ltd.	1945 (2018)	2018-2019	300.00
978-81-219-0952-5	512	NAR-MIT	Narayan, Shanti; Mittal, P.K.	Vector Algebra	19th.rev.ed	S.Chand & Company Ltd.	1954 (2016)	2018-2019	175.00
978-81-219-0472-8	515	NAR-MIT	Narayan, Shanti; Mittal, P.K.	A Course of Mathematical Analysis	1st.rev.ed.	S.Chand & Company Ltd.	1945 (2018)	2018-2019	300.00

978-81-219-0472-8	515	NAR-MIT	Narayan, Shanti; Mittal, P.K.	A Course of Mathematical Analysis	1st.rev.ed.	S.Chand & Company Ltd.	1945 (2018)	2018-2019	300.00
978-81-219-0281-6	001.424	GUP-HIR	Gupta, Prem Kumar; Hira, D. S.	Operations Research	7th.rev.ed.	S.Chand & Company Ltd.	1976 (2015)	2018-2019	850.00
978-93-525-3402-9	153.94	AGG/Qua	Aggarwal, R.S.	Quantitative aptitude: for competitive examinations	Rev.ed.	S.Chand and Company Ltd	1989 (2017)	2018-2019	725.00
978-93-525-3402-9	153.94	AGG/Qua	Aggarwal, R.S.	Quantitative aptitude: for competitive examinations	Rev.ed.	S.Chand and Company Ltd	1989 (2017)	2018-2019	725.00
978-93-525-3402-9	153.94	AGG/Qua	Aggarwal, R.S.	Quantitative aptitude: for competitive examinations	Rev.ed.	S.Chand and Company Ltd	1989 (2017)	2018-2019	725.00
978-93-525-3402-9	153.94	AGG/Qua	Aggarwal, R.S.	Quantitative aptitude: for competitive examinations	Rev.ed.	S.Chand and Company Ltd	1989 (2017)	2018-2019	725.00
978-93-525-3402-9	153.94	AGG/Qua	Aggarwal, R.S.	Quantitative aptitude: for competitive examinations	Rev.ed.	S.Chand and Company Ltd	1989 (2017)	2018-2019	725.00
978-93-525-3402-9	153.94	AGG/Qua	Aggarwal, R.S.	Quantitative aptitude: for competitive examinations	Rev.ed.	S.Chand and Company Ltd	1989 (2017)	2018-2019	725.00
978-93-525-3402-9	153.94	AGG/Qua	Aggarwal, R.S.	Quantitative aptitude: for competitive examinations	Rev.ed.	S.Chand and Company Ltd	1989 (2017)	2018-2019	725.00
978-93-525-3402-9	153.94	AGG/Qua	Aggarwal, R.S.	Quantitative aptitude: for competitive examinations	Rev.ed.	S.Chand and Company Ltd	1989 (2017)	2018-2019	725.00
978-93-525-3402-9	153.94	AGG/Qua	Aggarwal, R.S.	Quantitative aptitude: for competitive examinations	Rev.ed.	S.Chand and Company Ltd	1989 (2017)	2018-2019	725.00
978-93-525-3402-9	153.94	AGG/Qua	Aggarwal, R.S.	Quantitative aptitude: for competitive examinations	Rev.ed.	S.Chand and Company Ltd	1989 (2017)	2018-2019	725.00
978-93-525-3402-9	153.94	AGG/Qua	Aggarwal, R.S.	Quantitative aptitude: for competitive examinations	Rev.ed.	S.Chand and Company Ltd	1989 (2017)	2018-2019	725.00
978-81-265-1018-4	512.8	HER/Top	Herstein, I.N.	Topics in algebra	2nd ed.	Wiley	2017	2018-2019	599.00
978-81-265-1018-4	512.8	HER/Top	Herstein, I.N.	Topics in algebra	2nd ed.	Wiley	2017	2018-2019	599.00
978-81-265-1018-4	512.8	HER/Top	Herstein, I.N.	Topics in algebra	2nd ed.	Wiley	2017	2018-2019	599.00
978-81-265-1018-4	512.8	HER/Top	Herstein, I.N.	Topics in algebra	2nd ed.	Wiley	2017	2018-2019	599.00
978-81-265-1018-4	512.8	HER/Top	Herstein, I.N.	Topics in algebra	2nd ed.	Wiley	2017	2018-2019	599.00
978-93-528-3216-3	153.43	AGG/Mod	Aggarwal, R.S.	A Modern approach to verbal & non-verbal reasoning	1st ed.	S Chand And Company Limited	1994 (2018)	2018-2019	825.00
978-93-528-3216-3	153.43	AGG/Mod	Aggarwal, R.S.	A Modern approach to verbal & non-verbal reasoning	1st ed.	S Chand And Company Limited	1994 (2018)	2018-2019	825.00
978-93-528-3216-3	153.43	AGG/Mod	Aggarwal, R.S.	A Modern approach to verbal & non-verbal reasoning	1st ed.	S Chand And Company Limited	1994 (2018)	2018-2019	825.00

978-93-528-3216-3	153.43	AGG/Mod	Aggarwal, R.S.	A Modern approach to verbal & non-verbal reasoning	1st ed.	S Chand And Company Limited	1994 (2018)	2018-2019	825.00
978-93-528-3216-3	153.43	AGG/Mod	Aggarwal, R.S.	A Modern approach to verbal & non-verbal reasoning	1st ed.	S Chand And Company Limited	1994 (2018)	2018-2019	825.00
978-93-528-3216-3	153.43	AGG/Mod	Aggarwal, R.S.	A Modern approach to verbal & non-verbal reasoning	1st ed.	S Chand And Company Limited	1994 (2018)	2018-2019	825.00
978-93-528-3216-3	153.43	AGG/Mod	Aggarwal, R.S.	A Modern approach to verbal & non-verbal reasoning	1st ed.	S Chand And Company Limited	1994 (2018)	2018-2019	825.00
978-93-528-3216-3	153.43	AGG/Mod	Aggarwal, R.S.	A Modern approach to verbal & non-verbal reasoning	1st ed.	S Chand And Company Limited	1994 (2018)	2018-2019	825.00
978-93-528-3216-3	153.43	AGG/Mod	Aggarwal, R.S.	A Modern approach to verbal & non-verbal reasoning	1st ed.	S Chand And Company Limited	1994 (2018)	2018-2019	825.00
978-93-528-3216-3	153.43	AGG/Mod	Aggarwal, R.S.	A Modern approach to verbal & non-verbal reasoning	1st ed.	S Chand And Company Limited	1994 (2018)	2018-2019	825.00
	530	SAL/Cor	Sally, V.K.	Core science physics: for class 9 with CD		Goyal brothers prakashan	2011	2018-2019	148.00
978-81-8989-347-7	530	SET/Phy	Seth, C.K.; Haridas, G.; Bhawna	Physics: formative & summative assessment approach in science	1st rev. ed.	Prachi [India] Pvt.Ltd.	2007 (2011-12)	2018-2019	170.00
978-93-5299-030-6	621.381 5	TAY/Ele	Tayal, D.C.	Electricity and electronics	8th.rev.ed	Himalaya Publishing House Pvt. Ltd.	1975 (2019)	2018-2019	875.00
978-93-5299-386-4	621.381 5	KAK-BHA	Kakani, S.L.; Bhandari, K.C.	Objective electronics	1st ed.	Himalaya Publishing House Pvt. Ltd.	2019	2018-2019	475.00
978-93-5299-385-7	621.381 5	KAK-BHA	Kakani, S.L.; Bhandari, K.C.	Gate Electronics and communication engineering	2nd.rev.ed	Himalaya Publishing House Pvt. Ltd.	2016 (2019)	2018-2019	998.00
978-07069-9817-7	530	SUB-LAL	Subrahmanyam, N; Lal, Brij	A text book of sound	2nd.rev.ed.	Vikas Publishing House Pvt.Ltd.	1995 (2016)	2018-2019	340.00

Invited Lectures

- Mr. Habeeb Rawther, Human Resource Manager, Mahindra Gears & Transmission, Shapar Veraval Rajkot delivered special lecture to TY B.Sc. Students of Department of Industrial Chemistry.
- Shri H. P. Patel, Regional Officer, GPCB, Rajkot delivered a special lecture on “Keep Cool and Carry on: The Montreal protocol” on 17-09-2018 to all the students of department of industrial chemistry along with invited students of various other institutes of Saurashtra region.
- Shri Somdev Tyagiji deleivered invited lecture in a 3 days workshop on “Happiness & Wellness” for the staff members & students of Shree M. & N. Virani Science College.
- Dr. Mrunal A. Ambasana, Department of Chemistry, Bhakta Kavi Narsinh Mehta University, Junagadh delivered a invited lecture on “Method Validation in High Performance Liquid Chromatography (HPLC)”, to all the students of department of industrial chemistry.
- Dr. G.D. Acharya (Principal, AITS) & Mr. Divyang Tiwari (TPO, AITS) jointly delivered lecture on “Job Interview skills” on date 26th July, 2019.
- Punit vadher :Valsad Ganit Mandal Sponsored Two day workshop of “Introduction to GeoGebra”
- Jignasu Chauhan:Valsad Ganit Mandal Sponsored Two day workshop of “Introduction to GeoGebra”
- Jignasu Chauhan:December-2018 . Workshop on GeoGebra,University School of Sciences, Gujarat University, Ahmedabad.
- Jignasu Chauhan:December-2018.5th state level workshop on Problem Solving & Enrichment in Mathematics at St. Xavier’s College Ahmedabad.



A One Day State Level Hands-on Workshop on
“Advanced Analytical Techniques for Materials Characterization (A²TMC-2018)”
Date: 23.12.2018 Venue: CIF Lab of MNVSC Time: 09:00 am- 04:30 pm

Atmiya Sport Event - Jan 2019



AVSAR-INSTANT PHOTOGRAPHY COMPETITION-2018



Emerging Trends in Chemical Science & Tech event-22092018



Gurupurnima Celebration





Kabbadi Tournament

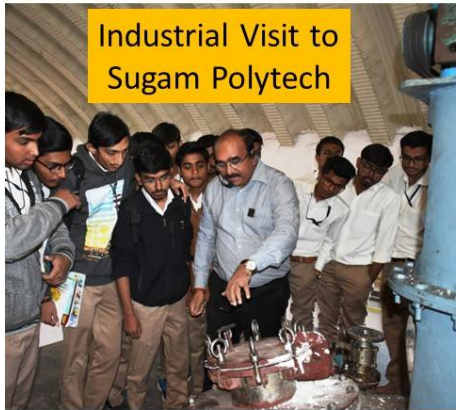


Resume building workshop



Visit to
Sadbhavna Old age Home





Industrial Visit to Sugam Polytech



TATA CHEMICALS LIMITED



Industrial Visit to TATA Chemicals





YOGA Session



IC Students at NCC Activities



Sports Session



Value Education Sibir

A) Student activities

i. Winter Training: Preparation of different remedial botanical products



ii. Industrial Visits: Study tour to the Meteorological Department



iii. List of Projects Undertaken by Students

Herbal products: Preparation of Herbal Moisturizer, Herbal Stir Up, Herb Care Spray and Soothing



Sectioning and anatomy of anomalous secondary growth and cell division



Identification of marine animals of the coast of Narara Island (Gujarat) based using morphological characters



iv. Excursions:

Field Trip to Race course garden



Field trip to Pradhyuman Park



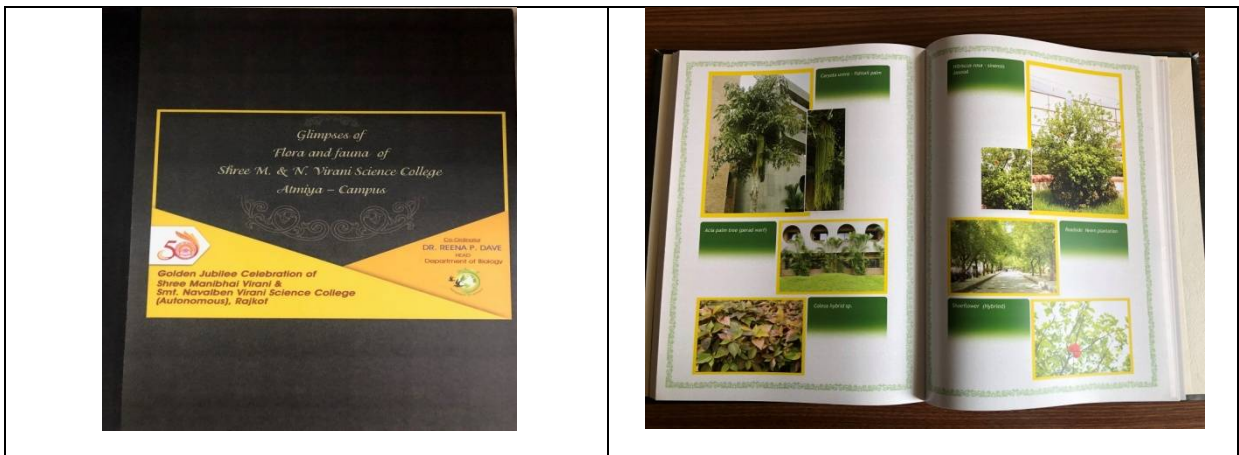
Poster Presentation on Economic importance of Plants by students



Invited lectures



Published Book



Minor Research Project

Department of Industrial Chemistry

Titles of the projects are as below:

- Study of antimicrobial activity of oil extracted from pongamia pinnata seeds incorporated in hand sanitizer
- Antimicrobial activities of imidazoline derivative
- Antimicrobial activities of chemical derivatives against different microorganism
- Biodegradable polymer preparation & characterisation
- Preparation of highly active solid catalyst from lemon pills and its application to bio-energy production
- Synthesis of novel heterocyclic molecules.
- Synthesis and biological screening of 1, 4 di-hydroxy anthraquinone derivatives as a promising anticancer agents.
- Synthesis of novel 1, 2, 4 triazol and pyridine triazole as a potential anticancer, antibacterial, antifungal and anticorrosive agents
- Synthesis of cyanuric chloride derivatives as antimicrobial agents.
- One pot green MCRs for synthesis of coumarin derivatives as anticancer agents.
- Synthesis & Characterization of Indole and Pyrazole derivatives for Agriculture and Medicinal Application.
- Preparation of novel chalcones.

Department of Biology

- Herbal products: Preparation of Herbal Moisturizer, Herbal Stir Up, Herb Care Spray and Soothing.
- Sectioning and anatomy of anomalous secondary growth of dicot roots and cell division.
- Study of pollen grains of Family Malvaceae.
- Identification of marine animals of the coast of Narara Island (Gujarat) based using morphological characters (55 students).

Department of Physics

- Testing of Analog circuits
- Testing of Digital circuits