



# R. J. COLLEGE of Arts, Science & Commerce (AUTONOMOUS)

(Hindi Vidya Prachar Samiti's RAMNIRANJAN JHUNJHUNWALA COLLEGE of Arts, Science & Commerce)

Opposite Ghatkopar Railway Station, Ghatkopar (West), Mumbai 400086, Maharashtra, INDIA.

Website: www.rjcollege.edu.in Email: rjcollege@rjcollege.edu.in Tel No: +91 22 25151763 Fax No: +91 22 25150957

College is recognized under Section 2(f) & 12(B) of the UGC Act, 1956

Affiliated to UNIVERSITY OF MUMBAI || NAAC Re-Accredited 'A' Grade (CGPA: 3.50)

10<sup>th</sup> June 2019

## NOTICE

### DEGREE COLLEGE

The department of Chemistry is organising a value-added course on Good Laboratory Practices (GLP) and Green Chemistry from 17<sup>th</sup> June, 2018 onwards. All students who fulfil the attendance requirement and complete the assignments in the workshop will be given a certificate of two credits.



  
Principal

PRINCIPAL  
RAMNIRANJAN JHUNJHUNWALA COLLEGE  
OF ARTS, SCIENCE & COMMERCE (AUTONOMOUS)  
Ghatkopar (W), Mumbai-400 086, Maharashtra, INDIA

2019: Star College Status by DBT

2008: Best College by University of Mumbai 2010: IMC RBNQ Award 'Performance Excellence' for the year 2009

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## CERTIFICATE COURSE IN GREEN CHEMISTRY AND GOOD LABORATORY PRACTICES



### ABOUT US

Hindi Vidya Prachar Samiti was incepted on the auspicious day of Shri Krishna Janmashtami, 15th August 1938. A brain child of a visionary Late Shri Nandkishore Singh Jairamji, samiti was established with the objectives of catering to the educational needs of the Hindi speaking community. Ramniranjan Jhunjhunwala College came into existence in 1963, enabling a larger section of the society to take advantage of the facilities provided for higher education.

From 1999-2000 the College has added a number of self-financing courses like B.M.S., B.B.L., B.Sc. in Computer Science, Information Technology, Biotechnology, M.Sc. in Computer Science, Biotechnology and Information Technology as well as add on courses, which further hone the special skills of the students.

The college has been reaccruited with 'A' Grade by NAAC in 2014 with a CGPA 3.50 and received the Best College Award (2007-2008) of the University of Mumbai. The College has been bestowed with IMC "Ramkrishna Bajaj Performance Excellence Trophy", 2010.

The Principal of the college was awarded "Best Teacher" by Government of Maharashtra in 2011.

Government of Maharashtra conferred the college with "JAAGAR JAANIVANCHA" (First in Mumbai Suburban- in 2013 and Second in Mumbai Suburban- in 2014) for safety of girls.

Course Code: **RJCHEC**

Duration: **30** hours

Credits: **02**

### LEARNING OUTCOME

At the end of this course student will be able to

- General organization of a Chemistry laboratory
- Safety rules and regulations to be followed
- Eco-friendly techniques to be adopted
- Uses of Green Chemistry and its applications



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CERTIFICATE COURSE IN **GREEN CHEMISTRY AND GOOD LABORATORY PRACTICES**



## COURSE CONTENT

### Unit 1

Twelve principles of green chemistry, Prevention of waste, atom efficiency, less hazardous chemical synthesis, usage of less hazardous solvents and other chemicals, design for energy efficiency, reducing derivatives, usage of catalyst, prevention of pollution and accidents, goals of green chemistry, innovative choice of materials, reduce environmental impact, use of renewable resources for reactions, follow processes less prone to fire and explosion and to develop less toxic products

### Unit 2

Introduction to Chemistry Laboratory, Basics of Chemical Analysis-Scientific methods in analysis, Relevant Hypothesis, Experimentation, Verification of results and their documentation. General instructions- Discipline, Punctuality, Do and Don'ts followed by students inside laboratory, Personal and laboratory cleanliness. Introduction to Principles of Green Chemistry- Recycle and Conservation of energy. Implementation of green techniques in every day laboratory activities and Waste management.

### Unit 3

General rules on Personal safety, Glass ware handling and Chemical handling. Methods involved in the safe storage, handling and disposal of sodium metal. Rules governing the safe use of electrical instruments and heating devices. Handling of electronic balance and centrifuging machine, SOP norms, Assessment and periodic maintenance of laboratory safety equipments - fire extinguishers, eye wash and safety showers. Regular monitoring of safety materials available in the laboratory.

### Unit 4

Common accidents in chemistry laboratory, Precautions while working, First-Aid techniques. Treatment procedures for cuts and bruises, burns, acid and alkali spills on body, eye injuries, electric shocks. Safe pipetting technique-using bulb, Familiarising with the location and Use of Safety Equipments in the lab, Personal Protective Equipments-Lab coat, gloves, safety goggles & safety shoes. List of Laboratory Safety symbols and Hazard signs.



English

## MEDIUM OF INSTRUCTION

**EVALUATION** Continuous evaluation



**PASSING 40**

**100 MARKS**

## WHO SHOULD DO IT?

Any student and teaching staff from Science faculty



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## REPORT

The department of Chemistry organised a value-added course entitled Good Laboratory Practices (GLP) and Green Chemistry for the students of TYBSc and SYBSc from 15<sup>th</sup> June 2018 onwards. 56 TYBSc students successfully completed the course. 64 SYBSc students completed the course. Students were evaluated by using evaluative techniques like identifying symbols and their meanings, handling of liquids, preparation of chemicals dos and don'ts, waste management, safety for eye protection, head, foot. In Green Chemistry, students learnt the importance of reducing use of chemicals. Using alternative safer chemicals, conserving resources, recycling.

The evaluation process consisted of above-mentioned techniques. During the workshop students were evaluated continuously.



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## LIST OF STUDENTS WHO COMPLETED THE COURSE IN GOOD LABORATORY & GREEN CHEMISTRY.

SR NO	NAME	CLASS	ROLL NO
1	SAKINA KHATOON GULAM ASHRAF NAZMA	TYBSC	1
2	ALFIA BANO IQBAL AHMED FARIDA	TYBSC	2
3	ADSUL AKSHAY ANIL SANGITA	TYBSC	3
4	ANSARI SAJID RAJMOHD SAKINA	TYBSC	7
5	DHONDKAR ANIKET VILAS ASHA	TYBSC	10
6	DUBEY AKSHAY RADHEYSHYAM MANJU	TYBSC	11
7	GUPTA MANGESHKUMAR DINESHCHANDRA GEETA	TYBSC	16
8	KHAN MUSKAN KAUSAR ALI SHER BANO	TYBSC	26
9	KHAN TABSSUM JAMAL AHMED TASLIMUNNISA	TYBSC	27
10	KHAN SURAIYYA KHATOON HAFIZURREHMAN AZIZUNNISA	TYBSC	28
11	KHAN TAMANNA BANO GULAM MOHD ZAHEDA BANO	TYBSC	29
12	KHAN AYESHA HASNAT FARHAT KHATOON	TYBSC	30
13	KHAN RUKSHAR BANO SABRUNNISA MOHD ISA	TYBSC	31
14	AFREEN BANO ABDUL HAMID YASMIN	TYBSC	32
15	KHAN ARIFA NIZAMUDDIN QAMRUNNISA	TYBSC	33
16	KHAN SHABNAMKHATOON FAROOQUE SAIRUNISSA	TYBSC	34
17	KHAN SHAKREEN SAJJAD SABINA	TYBSC	35
18	KORI SUMAN HARIKESHKUMAR SADHANA	TYBSC	36
19	KUMKAR SHWETALI RAMDAS VIDYA	TYBSC	37
20	MAURYA ANJALIDEVI UMESH CHANDRA KUSUM	TYBSC	38
21	NAEEMI FATMAKHATOON BADRE ALAM SHAHJAHAN	TYBSC	48
22	NAIDU MUNIASAMY RAJGOPAL AMUTHA	TYBSC	49
23	PAWAR ANUSHREE SURYAKANT SEEMA	TYBSC	56
24	POJARI BHAVANA VENKATESH LALITA	TYBSC	57
25	QAZI MOHAMMAD MAAZ ARSHAD SHABANA	TYBSC	58
26	SAYYED ARMY MOHD YUSUF AJMAL BEGUM	TYBSC	59
27	SAYYED ULFAT ZAHERA AHTEHAM HUSSAIN GULZAR FATIMA	TYBSC	60
28	SHAIKH SAMAMAPARVEEN MOHD NEMTULLAH SHABANA	TYBSC	61
29	SHAIKH SANA KULSOOM PARVEZ AHMED SUGRA	TYBSC	62
30	SHINDE MAHENDRA NARAYAN DIPALI	TYBSC	67
31	SHINDE ANIKET SHIVAJI UJWALA	TYBSC	68
32	SHIRKE JAY JAGANNATH JAYSHREE	TYBSC	69
33	SINGH ANAMIKA AJAY AARTI	TYBSC	73
34	SINGH SUJIT GOPAL BIMLA	TYBSC	74
35	THAKUR DEEPAKKUMAR VINOD SUSHMA	TYBSC	75
36	VISHWAKARMA SWASTIK RAMESH SAVITRI	TYBSC	80
37	WALAWALKAR MANSI SANJAY RASHMI	TYBSC	81
38	WAYKAR TUKARAM VINAYAK KAMAL	TYBSC	82



*Ushu*

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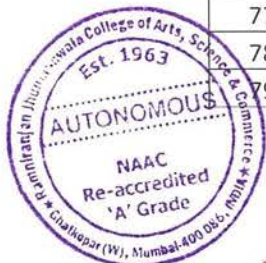
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39	YADAV GAURAV SHIVSHANKAR ASHADEVI	TYBSC	86
40	YADAV CHHAYA ARVIND NIRMALA	TYBSC	87
41	YADAV MOHIT RAMSURAT MADHURI	TYBSC	88
42	YADAV KAVITA DEVI SHYAMJEET GIRIJADEVI	TYBSC	89
43	SHUKLA GARGI DEVENDRA SEEMA	TYBSC	93
44	VARMA ABHISHEK SANDEEP SANGEETA	TYBSC	96
45	SINGH MUKESH BABAN SANJU	TYBSC	106
46	BAVKAR SUDESH SATISH SUCHITA	TYBSC	110
47	VARMA KADAM VIJAY SEEMA	TYBSC	111
48	PATIL AMOL MADHUKAR REKHA	TYBSC	112
49	JAISWAR BUDDHKESH AJAYKUMAR CHANDREKHA	TYBSC	113
50	KHAN NASREEN BANO ABDUL MATIN PARVEEN	TYBSC	114
51	YADAV NEERAJ SACHIN SAVITRI	TYBSC	115
52	SINGH DIVYA ANIL SAROJ	TYBSC	116
53	YADAV ASHWINI GULABDHAR SANJU	TYBSC	117
54	SINGH ISHWAR BHAGWAN SHASHIMA	TYBSC	121
55	CHAUBEY PRANJAL LALCHAND SADHANA	TYBSC	122
56	MISHRA NILESH KUMAR KRISHNAWATIDEVI	TYBSC	123
57	ANSARI AYESHA RIZWAN NAZMA	SYBSC	1
58	GUPTA SURENDRAKUMAR RAMNATH PARVATI	SYBSC	14
59	JADHAV RUSHIKESH RAMCHANDRA VAISHALI	SYBSC	15
60	JADHAV SHUBHAM KRUSHNA SUMITA	SYBSC	16
61	JAISWAR PREETI HARFUL TARADEVI	SYBSC	17
62	KANADE HRITHIK SANTOSH REETA	SYBSC	18
63	KANOJIYA ANKUSH KAILAS GEETADEVI	SYBSC	19
64	KAPARE ROHAN ANANDRAO SHARMILA	SYBSC	20
65	KHAN MEHFUZUREHMAN MOHAMMED YUSUF ABRUNNISA	SYBSC	21
66	KHARAT MAYURI ANIL MEENA	SYBSC	22
67	MEHTA ANERI KETAN INDU	SYBSC	23
68	PANDEY PRAVEEN RANJAN SANTOSHKUMAR PADMAWATI	SYBSC	26
69	PANDEY SASHWAT SANJAY SHASHI	SYBSC	27
70	BALSARAF POOJA KASHINATH ANJANA	SYBSC	53
71	GUPTA ANILKUMAR LALLURAM RATNADEVI	SYBSC	54
72	JHA SATISH MANOJ RENU	SYBSC	55
73	YADAV SUDHIR SHIVAKANT KAUSHILYA	SYBSC	56
74	CHAUBE PRASHANT RAJMANI BEENA	SYBSC	57
75	SINGH SATYAM JAYPRAKASH SARITA	SYBSC	58
76	TIWARI SAURABH KAMLESHKUMAR GYANATI DEV	SYBSC	61
77	KHAN ISHMA SHAHANSHAH ALAM REHANA BEGUM	SYBSC	74
78	ANSARI SHIFA PARVEEN NOORUL HASAN FAREEDA BANO	SYBSC	501
79	DUBEY SHALINI NARSINGH NARAYAN DEVAMATI	SYBSC	503



*Usha*  
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81	GUPTA AARTI RAJESH ANITA	SYBSC	507
82	GUPTA UMA DEVI MUNNALAL USHA	SYBSC	508
83	SHAIKH NAZEMA ASLAM SHAMIM BANO	SYBSC	530
84	SHAIKH SALIM AKBAR ABEDABI	SYBSC	531
85	SINGH SHWETA BAJRANG BAHADUR NEELAM	SYBSC	532
86	TIWARI SUSMITA JAIPRAKASH SHUBHAWATI	SYBSC	533
87	SINGH NIKHIL ASHOKKUMAR PUSHPA	SYBSC	541
88	PANIGRAHI SIMRAN SIMANCHAL REENA	SYBSC	542
89	PANDEY SHIVKUMAR JAMUNAPRASAD SHASHIKALA	SYBSC	543
90	VISHWAKARMA ROSHAN AVADHRAJ SUSHILA	SYBSC	551
91	YADAV NEHA KUMAR REKHA	SYBSC	552
92	GUPTA AARTI RANJAY PRASAD SHEELA	SYBSC	553
93	MAURYA AARTI RAMESH PUSHPA	SYBSC	554
94	DUBEY PRIYA ANIL NISHA	SYBSC	555
95	BHAYDE ANKITA RAMA MEENA	SYBSC	605
96	DUBEY DIVYANSH RAJENDRA PRASAD KAMLESH	SYBSC	606
97	JAIWAR RACHANA UDAYBHAN RENU	SYBSC	609
98	KEVAT AKASH SURESH PUTUL	SYBSC	610
99	LONDHE DEEPAK SANJAY MADHURI	SYBSC	616
100	MAURYA ANKITA SHIVCHAND ARCHANA	SYBSC	617
101	MISHRA SHWETA PRAMOD VARSHA	SYBSC	618
102	NAIK SHAMITA NITIN DARSHANA	SYBSC	619
103	PANDEY AKSHAY SANTOSH RINKU	SYBSC	620
104	PANDEY RAGINI PRAMODKUMAR SUMAN	SYBSC	621
105	PATEL PANKAJ PRAMOD RITA	SYBSC	622
106	PAWAR SANATH RAVINDRA RAJANI	SYBSC	623
107	PAWASKAR VIPUL AJAY AKANKSHA	SYBSC	624
108	PRAJAPATI VISHAL SHANKAR GEETADEVI	SYBSC	625
109	TIWARI PREETI VEDPRAKASH SUMANDEVI	SYBSC	634
110	TRIPATHI SAAKSHI GYANESHWAR BHARTI	SYBSC	635
111	VARMA KAMLESH PHOOLCHAND SUNITA	SYBSC	636
112	VERMA REEMA DAHURAM RAJPATI DEVI	SYBSC	637
113	VISHWAKARMA VANDANA RAMNARESH SHANTIDEVI	SYBSC	638
114	VISHWAKARMA SUNITA ASHOK KUMAR GEETA DEVI	SYBSC	639
115	WALMIKI DEEPTI SUBODHKUMAR SARVESH	SYBSC	640
116	YADAV MONIKA RADHESHYAM ARCHANA	SYBSC	641
117	YADAV ANKIT ARUN SAROJ	SYBSC	642
118	YADAV RUPESH KUMAR RADHESHYAM DURGAVATI	SYBSC	646
119	SWAIN BINDIA KALIA CHHABI	SYBSC	647
120	KALE SHUBHADRA MADHAV PADMA	SYBSC	653



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## CERTIFICATE


This is to certify that

**Ms. Naik Shamita**

Of SYBSc and Roll No 619

has successfully completed the Value-Added Course in **Green Chemistry And Good Laboratory Practices** organized by **Department of Chemistry** in the academic year 2019-2020

Course Code  
RJCHEC

  
Dr. Usha Mukundan  
Principal



  
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