



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 II NAAC Re-Accredited 'A' Grade (CGPA: 3.50)

26th August 2019

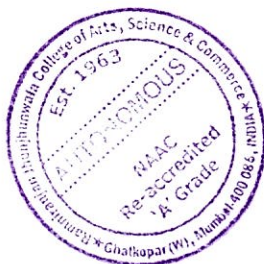
NOTICE

DEGREE COLLEGE

The Department of Chemistry is organizing a Value-Added Course in Laboratory Safety and Basic IT Skills for Chemists from 2nd September 2019 onwards. The mode of evaluation will be continuous and on successful completion of the course students will be awarded with two credits and a certificate.

SSR

HOD Chemistry



Usha

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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BROCHURE

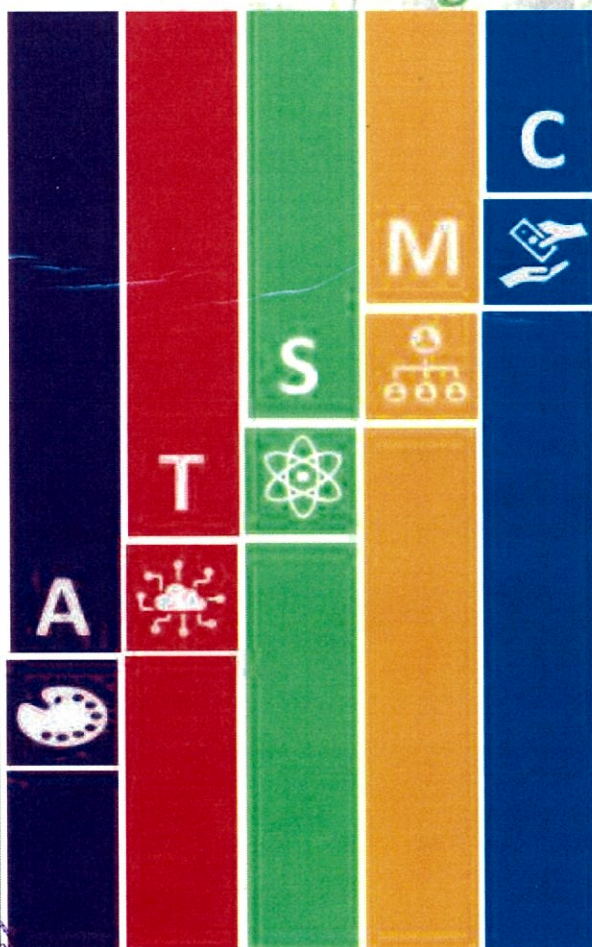


Hindi Vidya Prachar Samiti's RAMNIRANJAN JHUNJHUNWALA COLLEGE (AUTONOMOUS)

(Also known as R. J. College of Arts, Science & Commerce as per UGC Notification)

Affiliated to UNIVERSITY OF MUMBAI || Recognized by UGC under 2f & 12B
NAAC Accredited 'A GRADE' with CGPA 3.50

Knowledge is all Ambrosia



CERTIFICATE COURSE IN

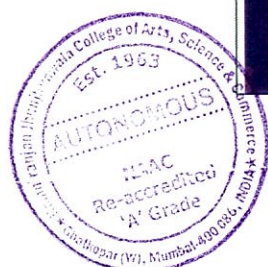
LABORATORY SAFETY & BASIC IT SKILLS FOR CHEMISTS

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CERTIFICATE COURSE IN LABORATORY SAFETY & BASIC IT SKILLS FOR CHEMISTS



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.I., 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 reaccredited 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: **RJCHEMLSIT**

Duration: **30** hours

Credits : **02**

LEARNING OUTCOME

On completion of the course the students will be able to

- Practice safety rules while performing experiments in the lab.
- Develop good laboratory practices.
- Confidently handle various chemicals used in a general chemistry lab.
- Perform first-aid treatment in case of common injuries/accidents in the lab.
- Apply IT tools to process the raw experimental data and make conclusions.
- Write a project report and also give a presentation on it.



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CERTIFICATE COURSE IN LABORATORY SAFETY & BASIC IT SKILLS FOR CHEMISTS

COURSE CONTENT

Safety in laboratory & Green Chemistry:

- Laboratory safety rules: General guidelines, general precautions, personal protective equipments, apparel in the lab, conduct and hygiene practices in the lab, housekeeping, chemical safety rules, fire and electrical safety rules; common chemistry laboratory practices; safety and hazard symbols; how to deal with accidents; DON'Ts in the lab.
- Unit I**
- Material Safety Data Sheet (MSDS): What is MSDS? MSDS of frequently used laboratory chemicals;
 - Lab waste management and disposal.
 - Green Chemistry: Definition, brief introduction of twelve principles of Green Chemistry with examples (special emphasis on atom economy, reducing toxicity and green solvents); CO₂: an alternative solvent.

IT Skills for Chemists: Introductory writing activities:

- Unit II**
- Introduction to word processor and structure drawing (ChemSketch, ChemDraw) softwares. Incorporating chemical structures, chemical equations, expressions from chemistry (e.g. Maxwell-Boltzmann distribution law, Bragg's law, van der Waals equation, integrated rate expressions, BET isotherm, etc.) into word processing documents.
 - Handling numeric data: Spreadsheet software (Excel), creating a spreadsheet, entering and formatting information, basic functions and formulae, creating charts, tables and graphs. Incorporating tables and graphs into word processing documents. Simple calculations and plotting graphs using a spreadsheet.
 - Numeric modelling: Numerical curve fitting, linear regression (rate constants from concentration-time data, molar extinction coefficients from absorbance data), numerical differentiation (e.g. handling data from potentiometric and pH-metric titrations, p^{K_a} of weak acid), integration (e.g. entropy/enthalpy change from heat capacity data).
 - PowerPoint presentation and general introduction to project report writing.

English

MEDIUM OF INSTRUCTION



EVALUATION Assignments & MCQ test



PASSING 40

100 MARKS

T.Y.B.Sc Chemistry Students **WHO SHOULD DO IT?**



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REPORT

A Chemistry lab is an area where different types of reagents, chemicals are kept in the laboratory. In addition, there are burners. There are chemicals which need to be handled with care. The chemistry laboratory in our college has adequate safety measures in place and there are precautionary measures in place. The students require training with respect to the do's and don'ts in the chemistry laboratory specifically and in any laboratory or premises generally. In this course students were acquainted with the different rules and regulations to be followed in the laboratory. They were told about the safe handling of chemicals and the importance of using protective glassware lab coat shoes while working in the laboratory. Students were taught about the use of Chem sketch, chem draw, excel/spreadsheet software and using the data plotting graphs.



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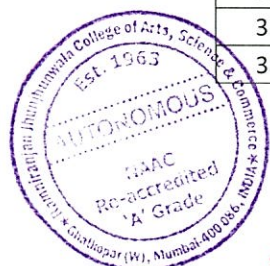
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LIST OF STUDENTS WHO COMPLETED LAB SAFETY & IT SKILLS FOR CHEMISTS

SR NO	NAME	CLASS	ROLL NO
1	SHAIKH AMBREEN MOHD SHAMIM MUSARAT JAHAN	FYBSC	1
2	CHADHA LOVLEENKAUR KARNAIL SINGH JASPAL KAUR	FYBSC	4
3	CHAUBEY DIPTI ASHOK KUMAR SADHANA	FYBSC	5
4	CHAUHAN KISHAN MADANLAL SEEMA	FYBSC	6
5	CHAURASIYA SUMIT ASHOK SHEELA	FYBSC	7
6	DALAI SANKET SANTOSH SUDHA	FYBSC	9
7	DWIVEDI VIPUL SURESHKUMAR GYANDEVI	FYBSC	12
8	GOND SANDHYA DEVKUMAR KANCHAN	FYBSC	15
9	GUPTA SIVANI SUNIL POONAM	FYBSC	16
10	GUPTA SANDEEP CHINTAMANI BIJMAVATI	FYBSC	20
11	GUPTA PRIYA RAMLOLAK MANJUDEVI	FYBSC	21
12	GUPTA NIKHIL ARVIND REKHA	FYBSC	23
13	JAYBHAYE TEJAS BHAGAWAT SUREKHA	FYBSC	26
14	JAYSWAL ATUL VIJAY VIDYA	FYBSC	28
15	KHAN WAJAHATULLAH SIRAJULLAH TAREEQUNNISA	FYBSC	35
16	KHAN ZIKRA FAIZI GAYASUDDIN AZRA FAIZI	FYBSC	36
17	KHAN SABIYA KHATOON SAJAUDDIN SAJIDA KHATOON	FYBSC	39
18	KHAN ANUFA BANO IBRAHIM RUBEENA BANO	FYBSC	40
19	MISHRA ABHISHEKKUMAR RAJESHWARIPRASAD KUSUM	FYBSC	46
20	MISHRA SHUBHAM ANILKUMAR SARVESH	FYBSC	47
21	NADKAR SAURABH SHANKAR SHARMILA	FYBSC	50
22	PRAJAPATI MAHENDRALAL HIRALAL KESHAR	FYBSC	59
23	QUBA KHANAM IZHAR MUNOWAR JAHU	FYBSC	62
24	RAI RISHABH AJIT SUNANDA	FYBSC	63
25	SHAIKH AMINA ASAGAR DAULATBI	FYBSC	70
26	SHAIKH NIKHAT FATIMA MOHD SALIM NASRIN FATIMA	FYBSC	71
27	SHARMA ASHISHKUMAR VIRENDRAKUMAR MUNNIDEVI	FYBSC	75
28	SIDDIQUI MOHAMMED HUZAIFA NAZIR AHMED QADRUNNISA	FYBSC	78
29	SINGH VIVEK ANIL GEETA	FYBSC	81
30	SINGH AKASH DHANANJAY SUNITA	FYBSC	86
31	TIWARI SUMIT AVADHESH SUBHADRA	FYBSC	92
32	VERMA PRINCY MAHESHKUMAR SUNITA	FYBSC	96
33	VISHWAKARMA AMIT RAEJSH MEERADEVI	FYBSC	98
34	YADAV DHEERAJ LAL BAHADUR MALADEVI	FYBSC	102
35	YADAV SARITA RAMAKANT PRABHAVATI	FYBSC	110
36	YADAV SHUBHAM DINESH PATTI	FYBSC	111
37	ZENDE SAGAR HANUMANT SANGEETA	FYBSC	112
38	CHODHARY KRISHNA BHAGARAM MAMTA	FYBSC	206



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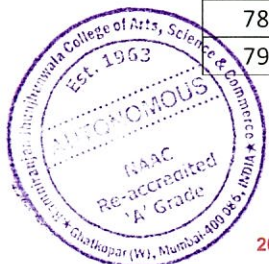
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39	KHAN SANIYA SHAMEEM MALIKA KHATOON	FYBSC	216
40	KHAN SAMRIN REHMAN AFSANA	FYBSC	218
41	PATIL RUTUJA RAGHUNATH SHOBHA	FYBSC	228
42	REHMANI AFSANA HAQIQULLAH ZAIBUNNISA	FYBSC	232
43	SHAIKH SANA MOHD HASAN AMINA	FYBSC	235
44	SHARMA ABHAY MAHESH KUMAR REETA	FYBSC	238
45	SHINDE SWAPNALI NARAYAN DIPALI	FYBSC	239
46	SIDDIQUI SADIYASOGRA IJAHARAHMED NAJMA	FYBSC	243
47	SINGH SHRADHA SANJAY PUNAM	FYBSC	246
48	AMIN VAISHNAVI SHAILESH MEGHA	FYBSC	263
49	SHAIKH AFRIN ANWAR SHAMSUNNISSA	FYBSC	267
50	IDRISI TARANNUM MOHD HASAN MOMINA KHATOON	FYBSC	268
51	ANSARI NIKHAT PARVEEN PARWEZ SHAMIMA	FYBSC	301
52	DEVBANSHI MUSKAN SUNIL CHINTADEVI	FYBSC	307
53	GAUTAM JAIPRAKASH CHINGUD PARVATI	FYBSC	310
54	PANDEY ANMOL ASHOK KUMAR SARIKA	FYBSC	324
55	WAGHMARE AKSHATA VISHNU ARATI	FYBSC	341
56	YADAV AJAY RAMDAS MANSHA	FYBSC	345
57	YADAV SARVESH GIRDHARI PUSHPA	FYBSC	350
58	KHAN IRSHAD MOHAMMED ILIYAS KISHWAR	FYBSC	352
59	GUPTA VISHAL SATYAPRAKASH RESHMA	FYBSC	354
60	SUFIYA KHATOON NASIM AHMED ABIDA KHATOON	FYBSC	402
61	CHAURASIYA TWINKLE UDAYCHAND NEERA	FYBSC	415
62	CHOUDHARY AFREENBANU NIZAMUDDIN SHAHIDA	FYBSC	418
63	DALVI LAVESH RAJENDRA RAJESHREE	FYBSC	423
64	KANNOJIYA SHALINI DAYARAM VIJAYLAXMI	FYBSC	448
65	KASU RAEESA ISMAIL SAIDA	FYBSC	450
66	KHAN SHIBRAN MUNAWAR PARVEEN	FYBSC	452
67	KHAN QAINAT NASIR GAZALA	FYBSC	453
68	KHAN AASMA AKBAR ALI SAKRUNNISA	FYBSC	459
69	KHAN ASMA KHATOON ZAHIDA KHATOON	FYBSC	461
70	KHAN ZOOFISHAN ABRAR HUSAIN BEGUM PARVEEN	FYBSC	463
71	KHAN AMREEN SALAUDDIN RAHATUNNISA	FYBSC	470
72	MAHAPATRA AKASH HARISHCHANDARA KUNNI	FYBSC	474
73	SHAIKH MOHD AYYUB VAHID SAKINA	FYBSC	502
74	SHAIKH MOHD AKIB MOHD NASEEM GAZALA BEGUM	FYBSC	505
75	SHAIKH ARSHIYA PARVEEN JAMIL AHMED RUBEENA PARVEEN	FYBSC	508
76	SHAIKH SHAHIN BABU MALAN	FYBSC	509
77	SHAIKH SHIREEN ANWAR PARVEEN	FYBSC	510
78	SHAIKH MUSKAN MUQEEM SHAMA	FYBSC	511
79	SHRIVASTAV OMKAR RAMDULAR MUNNIDEVI	FYBSC	516



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81	SINGH POOJA SHRIKANT NIRMALA	FYBSC	522
82	SINGH VIDYA ASARE BINDU	FYBSC	532
83	UPADHYAY SUKRITI RAJENDRA RAGINI	FYBSC	543
84	VISHWAKARMA VIKKY SUVAS GEETADEVI	FYBSC	545
85	VISHWAKARMA VANDANA BANKELAL VIMALA	FYBSC	546
86	VISHWAKARMA RUBIDEVI SAHEBLAL NISHADEVI	FYBSC	547
87	YADAV SONUKUMAR KINKAR SAVITA	FYBSC	553
88	YADAV SHUBHAM HIRALAL VANDANA	FYBSC	565
89	IDRISI SAMREEN MOHAMMED IRSHAD SHARIFUNISSA	FYBSC	567



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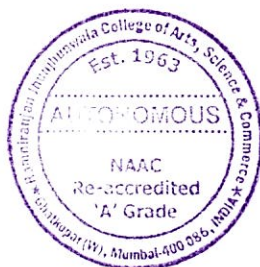
Mr. Dalai Sanket Santosh

Of FYBSc and Roll No 09

has successfully completed the Value-Added Course in **Lab Safety and IT Skills For Chemists**
organized by **Department of Chemistry** in the academic year 2019-2020

Course Code
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Dr. Usha Mukundan
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