

(Hindi Vidya Prachar Samiti's RAMNIRANJAN JHUNJHUNWALA COLLEGE of Arts, Science & Commerce)
Opposite Ghatkopar Railway Station, Ghatkopar (West), Mumbai 400086, Maharaşhtra, 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)

NOTICE

DEGREE COLLEGE

The Department of Botany is organising a Lecture on 'A Case for Quantum Biology: Application of Quantum Mechanics to Biology' on 13th June 2019 from 8:30 am onwards in MPSS Hall. Students are cordially invited to attend the session.

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





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BROCHURE

R. J. COLLEGE OF ARTS, SCI & COMMERCE (AUTONOMOUS), GHATKOPAR, MUMBAI - 86

DEPT OF BOTANY - DBT STAR COLLEGE ACTIVITY: JUNE, 2019

A LECTURE ON

"A Case for Quantum Biology: Application of Quantum Mechanics to Biology"
Thursday, June 13, 2019 @ 8.30 am MPSS Hall

Abstract: We are currently witnessing something called a second quantum revolution which has allowed us a deeper understanding of the properties of quantum systems at the single atom and single photon level. This understanding has not only allowed us to appreciate quantum physics at a deeper level but also has given rise to new form of quantum technologies and new information processing paradigms. I will begin with brief intro to the basic properties of quantum systems that distinguish them from classical systems and talk about some macroscopic (size-scales that our eyes can see) phenomenon that arise from the quantum weirdness. With very brief history of the thought that basic biological processes may be driven by inherent quantum-ness of the life's chemistry. I will talk about the frontier research that may imply that quantum mechanics is very essential for several biological processes such as photosynthesis, DNA mutation, Quantum vision, Enzymatic activity, and magnetic navigation used by European robins and new techniques such as quantum microscopy.



DR. KISHOR T KAPALE, PH.D, INTERIM CHAIR, PROFESSOR AND GRADUATE COORDINATOR, WESTERN ILLINOIS UNIVERSITY

ALL ARE CORDIALLY INVITED

AUTONOMOUS Re-accredited A' Grade A' Grade A' Grade Municipal Manual Man

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Ghatkopar (V/), Mumbai-400 086, Maharashtra, INDIA

2019: Star College Status by DBT



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REPORT

Dr. Kishore Kapale a well-known scientist, from USA interacted with the students. He held a session on A Case for Quantum Biology: Application of Quantum Mechanics to Biology. His introduction to Quantum biology gave an insight on the study of quantum mechanics and theoretical chemistry to aspects of biology. He also touched upon the emerging field in quantum biology like how it can be applied in photosynthetic microorganisms, its application in space to name a few. The session ended with students interacting with him and also how they can pursue studies abroad and do research in quantum biology.



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PHOTOGRAPHS OF THE SESSION







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LIST OF STUDENTS WHO ATTENDED THE SESSION ON A CASE OF QUANTUM **BIOLOGY: APPLICATION OF QUANTUM MECHANICS TO BIOLOGY**

| SR NO | NAME | CLASS | ROLL NO |
|-------|---|--------|---------|
| 1 | CHAUHAN NEELAVATEE BHIMASHANKAR LATA | TYBSC | 201 |
| 2 | KHAN MUNAZZA MAJIDULLAH FARZANA | TYBSC | 204 |
| 3 | KHAN RUBY IRFAN RUKHSANA | TYBSC | 205 |
| 4 | KHANJIWALA JUMANA ZAKIRHUSSAIN TASNEEM | TYBSC | 206 |
| 5 | NITISHKUMAR PRADEEPKUMAR SEEMAKUMARI | TYBSC | 207 |
| 6 | MAURYA BRIJESH SHOBHASINGH NIRMALA DEVI | TYBSC | 208 |
| 7 | PRAJAPATI KISHAN SHRAVAN KUMAR KADAMI DEVI | TYBSC | 214 |
| 8 | PRAJAPATI RAKESH BAIJNATH DHARMSHILA | TYBSC | 215 |
| 9 | SHAIKH MUSKAN ABDUL JHAHANGEER AFSANA | TYBSC | 216 |
| 10 | SHELAR APARNA BHAGAWAN NANDA | TYBSC | 217 |
| 11 | SHUKLA SONAM KAUSHLESH VIMALA | TYBSC | 218 |
| 12 | MAURYA KM MAHIMA LAKSHMI PRASAD HIRAWATI DEVI | TYBSC | 225 |
| 13 | UPADHYAY NAVIN RAMESHCHANDRA KAMLESHDEVI | TYBSC | 226 |
| 14 | MANVE RASIK RAMESH RUTA | TYBSC | 227 |
| 15 | PADELKAR ABHISHEK RAMANAND KIRAN | TYBSC | 228 |
| 16 | SHRIVASTAV MOHIT RAJKUMAR KUSUM | TYBSC | 229 |
| 17 | BHAGAT BHAVIK BHALCHANDRA TULASI | TYBSC | 230 |
| 18 | JADHAV SIDDHANT RANJIT VRUSHALI | SYBSC | 506 |
| 19 | JAISWAR SEEMA HARINARYAN INDRAVATI | "SYBSC | 507 |
| 20 | KELKAR APURVA RAVINDRA VRUSHALI | SYBSC | 508 |
| 21 | LALE SHUBHAM DILIP SANGITA | SYBSC | 509 |
| 22 | SHAIKH SOYEB AKHATAR BADRUDDIN JANTUNISHA | SYBSC | 520 |
| 23 | SHAIKH KALAMUDDIN NIJAMUDDIN NAGINABEGAM | SYBSC | 521 |
| 24 | SHARMA PRIYA RAMTIRTH MALA | SYBSC | 522 |
| 25 | SHUKLA SHALINI RISHIKESH KIRAN | SYBSC | 523 |
| 26 | SIDDIQUI SAMINA MOHD TAHER AMINA KHATOON | SYBSC | 524 |
| 27 | SONI PIYUSH PANNALAL SITA | SYBSC | 525 |
| 28 | YADAV VANDANA RAJESH SHEELA | SYBSC | 528 |
| 29 | YADAV NEHA RAJESH ANITA | SYBSC | 529 |
| 30 | YADAV ANKITA MANOJKUMAR RADHA | SYBSC | 530 |
| 31 | TERSE SAMPADA RAVINDRA RASHMI | SYBSC | 531 |
| 32 | PANDEY SHIVAM ASHWINI REKHA | SYBSC | 541 |
| 33 | BHANGE POONAM SHIVAJI RANJANA | SYBSC | 542 |
| \$34 | GHADGE ANKITA ANKUSH GEETA | SYBSC | 543 |
| 35 | KHAN IMRAN SHAFIQULLAH SHAKLAIN | SYBSC | 544 |

AUTONOMOL Re-accredited 'A' Grade (W), Mumbal 400

PRINCIPAL

RAMNIRANJAN JHUNJHUNWALA COLLEG

OF ARTS, SCIENCE & COMMERCE (AUTONOMIC.

2008: Best College by University of Mumbai

2010: IMC RBNQ Award 'Performance Excellence' for the year 2010; Majorian College Status Date of the year 2010; Majorian College Date of the year 2010; Majori

2011: 'Best Teacher Award' by Government of Maharashtra 2013: DST-FIST 2014: DBT STAR College 2013 & 2014: 'Jagar Jaanivancha Award' by Govt, of Maharashtra 2016: ISO 14001:2015 2016: ISO 9001:2015 2017: ISO 27001:2013 2018: Autonomous Status by University Grants Commission (No. F. 22-1/2018(AC) - 28.05.2018) & by University of Mumbai (No.Aff./ICD/18-19/440 - 08.06.2018)



17), Mumbal 400 08

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| 36 | SIDDIQUI KHUSHBU SHAHID SALMA | SYBSC | 545 |
|-----------------------------------|--|---|--|
| 37 | DUBEY SONALI ASHOK KIRAN | SYBSC | 502 |
| 38 | GUPTA NIDHI SHANKARLAL SAVITADEVI | SYBSC | 509 |
| 39 | IDRISHI MOHAMMEDABID YASEEN AISHA | SYBSC | 510 |
| 40 | JADHAV TEJAL VIJAY SUNITA | SYBSC | 511 |
| 41 | MISHRA ANMOL DAYASHANKAR PUSHPA | SYBSC | 523 |
| 42 | PAWAR MAYUR MOHAN MOHINI | SYBSC | 524 |
| 43 | NAKTI SWAPNALI KRISHNA MALATI | SYBSC | 525 |
| 44 | PRAJAPATI ANSHU BHOLENATH SARITA | SYBSC | 526 |
| 45 | SHAIKH SALIM AKBAR ABEDABI | SYBSC | 531 |
| 46 | SINGH SHWETA BAJRANG BAHADUR NEELAM | SYBSC | 532 |
| 47 | SINGH NIKHIL ASHOKKUMAR PUSHPA | SYBSC | 541 |
| 48 | PANIGRAHI SIMRAN SIMANCHAL REENA | SYBSC | 542 |
| 49 | PANDEY SHIVKUMAR JAMUNAPRASAD SHASHIKALA | SYBSC | 543 |
| 50 | BISOYI ANJALI ANTARYAMI RANJU | SYBSC | 548 |
| 51 | TOTE NEHA SUNIL JAYASHREE | SYBSC | 549 |
| 52 | BARI HARSHADA SANTOSH SUNANDA | SYBSC | 550 |
| 53 | VISHWAKARMA ROSHAN AVADHRAJ SUSHILA | SYBSC | 551 |
| 54 | DUBEY PRIYA ANIL NISHA | SYBSC | 555 |
| 55 | KHAN MASEERA KHATOON MOHD ISRAEL FARIDA KHATOON | SYBSC | 556 |
| 56 | BHOJANE AMEYA GIRISH JYOTI | SYBSC | 701 |
| 57 | BHOR KASHISH VIJAY SADHANA | SYBSC | 702 |
| 58 | GUPTA ROSHAN RADHEYSHYAM MEERA | SYBSC | 712 |
| 59 | GUPTA JYOTI SANTOSH SANGEETA | SYBSC | 713 |
| 60 | KHAN SHIBA KHATOON MAHBOOB ALAM RUKHSANA KHATOON | SYBSC | 716 |
| 61 | KHAN NEHA PARVEEN MOHAMMED SHAMIM AKBARI BEGUM | SYBSC | 717 |
| 62 | KHAN SHAINEBANO ASHFAK AFROZ | SYBSC | 718 |
| 63 | KHAN AFSHA MUZIHUR REHMAN SHAMA | SYBSC | 719 |
| 64 | KHAN SADAF SANIYA NIYAZ AHMED MOMINA | SYBSC | 720 |
| 65 | KHAVALE MRUNAL VIJAY LAXMI | SYBSC | 721 |
| 66 | SHAIKH SANIA TAJ MOHAMMED ZULEKHA BEGUM | SYBSC | 739 |
| 67 | SONI RAJNANDINI ANILKUMAR SUMAN | SYBSC | 745 |
| 68 | TIWARI AKASH MANOJ POONAM | SYBSC | 746 |
| 69 | URANKAR MANISH SHIRISH NEETA | SYBSC | 747 |
| 70 | VISHWAKARMA PRIYA JOGINDER USHA | SYBSC | 748 |
| S.VI | VISHWAKARMA ARVINDKUMAR RAMNARAYAN GEETADEVI | SYBSC | 749 |
| \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | YADAV NITESH KUMAR DEVCHARAN KRISHNAVATI | SYBSC | 750 |
| DUS \ 6 | SINGH PRINSEE ANAND KUMAR REETA | SYBSC | 764 |
| 131 | | | |
| | 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 | 37 DUBEY SONALI ASHOK KIRAN 38 GUPTA NIDHI SHANKARLAL SAVITADEVI 39 IDRISHI MOHAMMEDABID YASEEN AISHA 40 JADHAV TEJAL VIJAY SUNITA 41 MISHRA ANMOL DAYASHANKAR PUSHPA 42 PAWAR MAYUR MOHAN MOHINI 43 NAKTI SWAPNALI KRISHNA MALATI 44 PRAJAPATI ANSHU BHOLENATH SARITA 45 SHAIKH SALIM AKBAR ABEDABI 46 SINGH SHWETA BAJRANG BAHADUR NEELAM 47 SINGH NIKHIL ASHOKKUMAR PUSHPA 48 PANDEY SHIVKUMAR JAMUNAPRASAD SHASHIKALA 49 PANDEY SHIVKUMAR JAMUNAPRASAD SHASHIKALA 50 BISOYI ANJALI ANTARYAMI RANJU 51 TOTE NEHA SUNIL JAYASHREE 52 BARI HARSHADA SANTOSH SUNANDA 53 VISHWAKARMA ROSHAN AVADHRAJ SUSHILA 54 DUBEY PRIYA ANIL NISHA 55 KHAN MASEERA KHATOON MOHD ISRAEL FARIDA KHATOON 56 BHOJANE AMEYA GIRISH JYOTI 57 BHOR KASHISH VIJAY SADHANA 58 GUPTA ROSHAN RADHEYSHYAM MEERA 59 GUPTA JYOTI SANTOSH SANGEETA 60 KHAN SHIBA KHATOON MAHBOOB ALAM RUKHSANA KHATOON 61 KHAN NEHA PARVEEN MOHAMMED SHAMIM AKBARI BEGUM 62 KHAN SHIBA KHATOON MAHBOOB ALAM RUKHSANA KHATOON 63 KHAN AFSHA MUZIHUR REHMAN SHAMA 64 KHAN SADAF SANIYA NIYAZ AHMED MOMINA 65 KHAN AFSHA MUZIHUR REHMAN SHAMA 66 SHAIKH SANIA TAJ MOHAMMED SULEKHA BEGUM 67 SONI RAJNANDINI ANILKUMAR SUMAN 68 TIWARI AKASH MANOJ POONAM 69 URANKAR MANISH SHIRISH NEETA 70 VISHWAKARMA ARVINDKUMAR RAMNARAYAN GEETADEVI 71 YADAV NITESH KUMAR DEVCHARAN KRISHNAVATI | 37 DUBEY SONALI ASHOK KIRAN SYBSC 38 GUPTA NIDHI SHANKARLAL SAVITADEVI SYBSC 39 IDRISHI MOHAMMEDABID YASEEN AISHA SYBSC 40 JADHAV TEJAL VIJAY SUNITA SYBSC 41 MISHRA ANMOL DAYASHANKAR PUSHPA SYBSC 42 PAWAR MAYUR MOHAN MOHINI SYBSC 43 NAKTI SWAPNALI KRISHNA MALATI SYBSC 44 PRAJAPATI ANSHU BHOLENATH SARITA SYBSC 45 SHAIKH SALIM AKBAR ABEDABI SYBSC 46 SINGH SHWETA BAJRANG BAHADUR NEELAM SYBSC 47 SINGH NIKHIL ASHOKKUMAR PUSHPA SYBSC 48 PANIGRAHI SIMRAN SIMANCHAL REENA SYBSC 49 PANDEY SHIVKUMAR JAMUNAPRASAD SHASHIKALA SYBSC 50 BISOYI ANJALI ANTARYAMI RANJU SYBSC 51 TOTE NEHA SUNIL JAYASHREE SYBSC 52 BARI HARSHADA SANTOSH SUNANDA SYBSC 53 VISHWAKARMA ROSHAN AVADHRAJ SUSHILA SYBSC 54 DUBEY PRIVA ANIL NISHA SYBSC 55 KHAN MASEERA KHATOON MOHD ISRAEL FARIDA KHATOON SYBSC 56 BHOJANE AMEYA GIRISH JYOTI SYBSC 57 BHOR KASHISH VIJAY SADHANA SYBSC 58 GUPTA ROSHAN ARDHEYSHYAM MEERA SYBSC 59 GUPTA JYOTI SANTOSH SANGEETA SYBSC 60 KHAN SHIBA KHATOON MAHBOOB ALAM RUKHSANA KHATOON SYBSC 61 KHAN BHAR HATOON MAHBOOB ALAM RUKHSANA KHATOON SYBSC 62 KHAN SHANDA SANTOSH SANMIM AKBARI BEGUM SYBSC 63 KHAN AFSHA MUZIHUR REHMAN SHAMA SYBSC 64 KHAN SHARDA NAHBOOB ALAM RUKHSANA KHATOON SYBSC 65 KHAN SHANDA SANTOSH SANMEERA SYBSC 66 SHAIKH SANIA TAJ MOHAMMED SHAMIM AKBARI BEGUM SYBSC 67 SONI RAJNANDINI ANILKUMAR SUMAN SYBSC 68 THAN SHAINEBANO ASHFAK AFROZ SYBSC 69 GUPTA JYOTI SANTOSH SANGEETA SYBSC 66 SHAIKH SANIA TAJ MOHAMMED ZULEKHA BEGUM SYBSC 67 SONI RAJNANDINI ANILKUMAR SUMAN SYBSC 68 TIWARI AKASH MANOJ POONAM SYBSC 69 URANKAR MANISH SHIRISH NEETA SYBSC 69 URANKAR MANISH SHIRISH NEETA SYBSC 69 URANKAR MANISH SHIRISH NEETA SYBSC 70 VISHWAKARMA PRIVA JOGINDER USHA SYBSC 71 SONI RAJNANDINI ANILKUMAR SUMAN SYBSC 72 SUSHWAKARMA PRIVA JOGINDER USHA SYBSC 73 SUSHWAKARMA PRIVA JOGINDER USHA SYBSC 74 VISHWAKARMA RAVINDKUMAR RAMNARAYAN GEETADEVI SYBSC 75 SONI RAJNANDINI SANIRISH NEETA SYBSC 76 SONI RAJNANDINI SANIRISH NEETA SYBSC 77 SONIRAJNANDINI SANIRISH NEETA SYBSC 78 SONIRAJNANDINI SANIRISH NEETA SYBSC 78 SUSHWAKARMA RAVINDKUMAR RAMNARAYAN GEETADE |

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| 75 | REHMANI AFSANA HAQIQULLAH ZAIBUNNISA | FYBSC | 232 |
|----|---|-------|-----|
| 76 | SHAIKH ARSHEE YASIN SHAMIM | FYBSC | 234 |
| 77 | BHAWAL KALPESH MADAN SUNITA | FYBSC | 408 |
| 78 | CHAURASIYA TWINKLE UDAYCHAND NEERA | FYBSC | 415 |
| 79 | CHOUDHARY AFREENBANU NIZAMUDDIN SHAHIDA | FYBSC | 418 |
| 80 | CHOUGULE MARIAM AYUB PARVEEN | FYBSC | 419 |
| 81 | DABIR ZAIN NAZIR PARVEEN | FYBSC | 421 |
| 82 | DALVI SHRUTI NITYANAND NIKITA | FYBSC | 422 |
| 83 | KHAN AMREEN SALAUDDIN RAHATUNNISA | FYBSC | 470 |
| 84 | KHAN MOHAMMED ALAM KUTBULLAH JAHAN KAISARJHAN | FYBSC | 471 |
| 85 | SINGH SEJAL NILESH KUMKUM | FYBSC | 531 |
| 86 | SINGH AKSHAT AJAYKUMAR SADHANA | FYBSC | 533 |
| 87 | SINGH SHBHYA ARUN SHOBADEVI | FYBSC | 534 |
| 88 | VISHWAKARMA VIKKY SUVAS GEETADEVI | FYBSC | 545 |
| 89 | VISHWAKARMA VANDANA BANKELAL VIMALA | FYBSC | 546 |
| 90 | VISHWAKARMA RUBIDEVI SAHEBLAL NISHADEVI | FYBSC | 547 |
| 91 | YADAV POOJA RAMBACHAN SHARMILA | FYBSC | 560 |
| 92 | YADAV LAKSHMINA AMARJEET CHANDRAKALA | FYBSC | 561 |



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Commerce (AUTONOMOUS)

CERTIFICATE

This is to certify that

Mr. Bhawal Kalpesh Madan

Of FYBSc and Roll No 408

has attended the Lecture on A Case for Quantum Biology: Application of Quantum Mechanics to Biology held on 13th June 2019 organized by Department of Botany

Dr. Usha Mukundan Principal



John