

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

BIOTECHNOLOGY DEPARTMENT

GYAN VIGYAN

'LECTURES ON MICROSCOPY'

The Department of Biotechnology is organising lectures on 'Microscopy' by Dr. B.B. Nath for Biotechnology Students as part of 'Gyan Vigyan'-an online popular lecture series on November 17th and 25th 2021 from 3:00 pm to 4:00 pm.

Platform: ZOOM

Meeting ID: 860 7805 9326

Passcode: scope

Dr. Sucheta Golwalkar Department of Biotechnology Dr. Himanshu Dāwda Principal

PRINCIPAL

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





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

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FLYER



FLYER of the lectures on 'Microscopy' by Dr. B.B. Nath organised by Department of Biotechnology under the aegis of DBT star college Activity 'Gyan Vigyan'-an online popular lecture series on November 17th and 25th 2021.



PRINCIPAL
RAMNIRANJAN JHUMIHUNWALA COLLEGE
OF ARTS, SCIENCE & COMMERCE (AUTONOMOUS)
Ghatkopar (W), Mumbai-400 036, Maharashtra, INDIA

2019: Star College Status by DBT



(Hindi Vidya Prachar Samiti's RAMNIRANJAN JHUNJHUNWALA COLLEGE of Arts, Science & Commerce) Opposite Ghatkopar Railway Station, Ghatkopar (West), Mumbai 400086, Maharashtra, INDIA. Email: rjcollege@rjcollege.edu.in Tel No: +91 22 25151763

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HINDI VIDYA PRACHAR SAMITI'S RAMNIRANJAN JHUNJHUNWALA COLLEGE OF ARTS, SCIENCE & COMMERCE (AUTONOMOUS)

AWARENESS OF TRENDS IN TECHNOLOGY BIOTECHNOLOGY DEPARTMENT DBT STAR ACTIVITY GYAN VIGYAN

"LECTURES ON MICROSCOPY"

Date: Wednesday, 17th November & Thursday, 25th November 2021

Time: 3:00PM to 4: 00 PM

Resource Person:

Dr. B. B. Nath

Emeritus Professor, Dept. of Zoology, Savitribai Phule Pune University.

Contact: +91-9822422883, +974 66894527

E. Mail ID: bbnath@gmail.com, director@miesppu.edu.ga

Students Benefited: TYBT, MSc I

Number of students Benefited: 30

Number of Teachers Involved: 06 - Dr. Sucheta Golwalkar, Dr. Rachana Acharya, Dr.

Tania Karipel, Saleha Khan, Smita Jadhav, Jasvinder Kaur

REPORT:

Department of Biotechnology organized lectures on 'Microscopy' as part of DBT star college Activity 'Gyan Vigyan', an online popular lecture series on November 17th and 25th 2021. The speaker was Dr. B. B. Nath, Emeritus Professor, Dept. of Zoology; Savitribai Phule, Pune University. Dr. Nath explained the basics of microscopy, significance of parts of a microscope, types of aberrations. Sessions helped students understand current developments & trends in microscopy and how various microscopic techniques can be used as imaging and research tools.

Date: 12th November 2021

PRINCIPAL RAMNIRANJAN JHUN JHUN WALA COLLEG OF ARTS, SCIENCE & COMMERCE (AUTONOMO) Ghatkopar (W), Mumbai-400 086, Maharashtra, INDI

Fax No: +91 22 25150957

2008: Best College by University of Mumbai 2010: IMC RBNQ Award 'Performance Exce 2011: 'Best Teacher Award' by Government of Maharashtra 2013: DST-FIST 2014: DBT STAR Co

2019: Star College Status by DBT

2013 & 2014: 'Jagar Jaanivancha Award' by Govt, of Maharashtra 2016: ISO 14001:2015 2016: ISO 9001:2015 2017: ISO 27001:2013 niversity Grants Commission (No. F. 22-1/2018(AC) - 28.05.2018) & by University of Mumbai (No.Aff./ICD/18-19/440 - 08.06.2018)



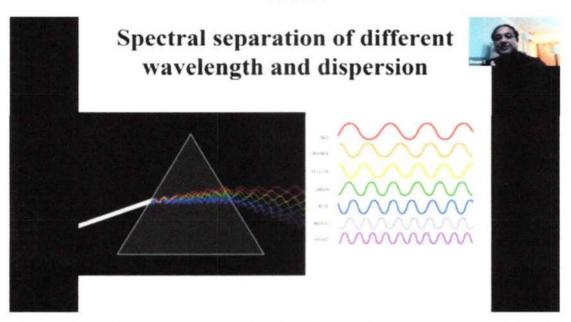
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PHOTOS



Screenshot of lecture on 'Microscopy' by Dr. B.B. Nath organised by Department of Biotechnology under the aegis of DBT star college Activity 'Gyan Vigyan'-an online popular lecture series on November 17th and 25th 2021.

> There are two closely related values for the diffraction limit, the Abbe and Rayleigh criterions. The difference between the two is based on the definition that both Abb and Rayleigh used in their derivation for what is meant by two objects being resolvable from each other. In practical applications, this difference is small.

The Abbe criterion is defined as:

$$r = \frac{0.5 \lambda}{NA} = \frac{0.5 \lambda}{n \sin(\theta)}$$

while the Rayleigh criterion defines the resolution mathematically as:

$$r = \frac{0.61 \,\lambda}{NA} = \frac{0.61 \,\lambda}{n \, \sin(\theta)}$$

where r is the distance the two objects are from each other, λ is the wavelength of light, n is the index of refraction of the medium between the objective and the sample, and NA is the numerical aperture of the objective lens that collects light.

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2019: Star College Status by DBT

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AUTONOMOUS

NAAC

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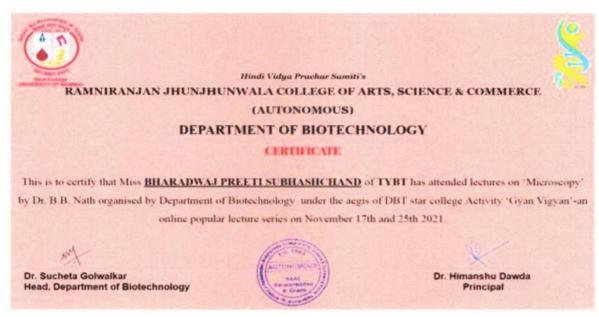
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CERTIFICATES



Participation Certificate awarded to student on attending lectures on 'Microscopy' by Dr. B.B. Nath organised by Department of Biotechnology under the aegis of DBT star college Activity 'Gyan Vigyan'-an online popular lecture series on November 17th and 25th 2021.



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