



Department of Microbiology

Established in 1981

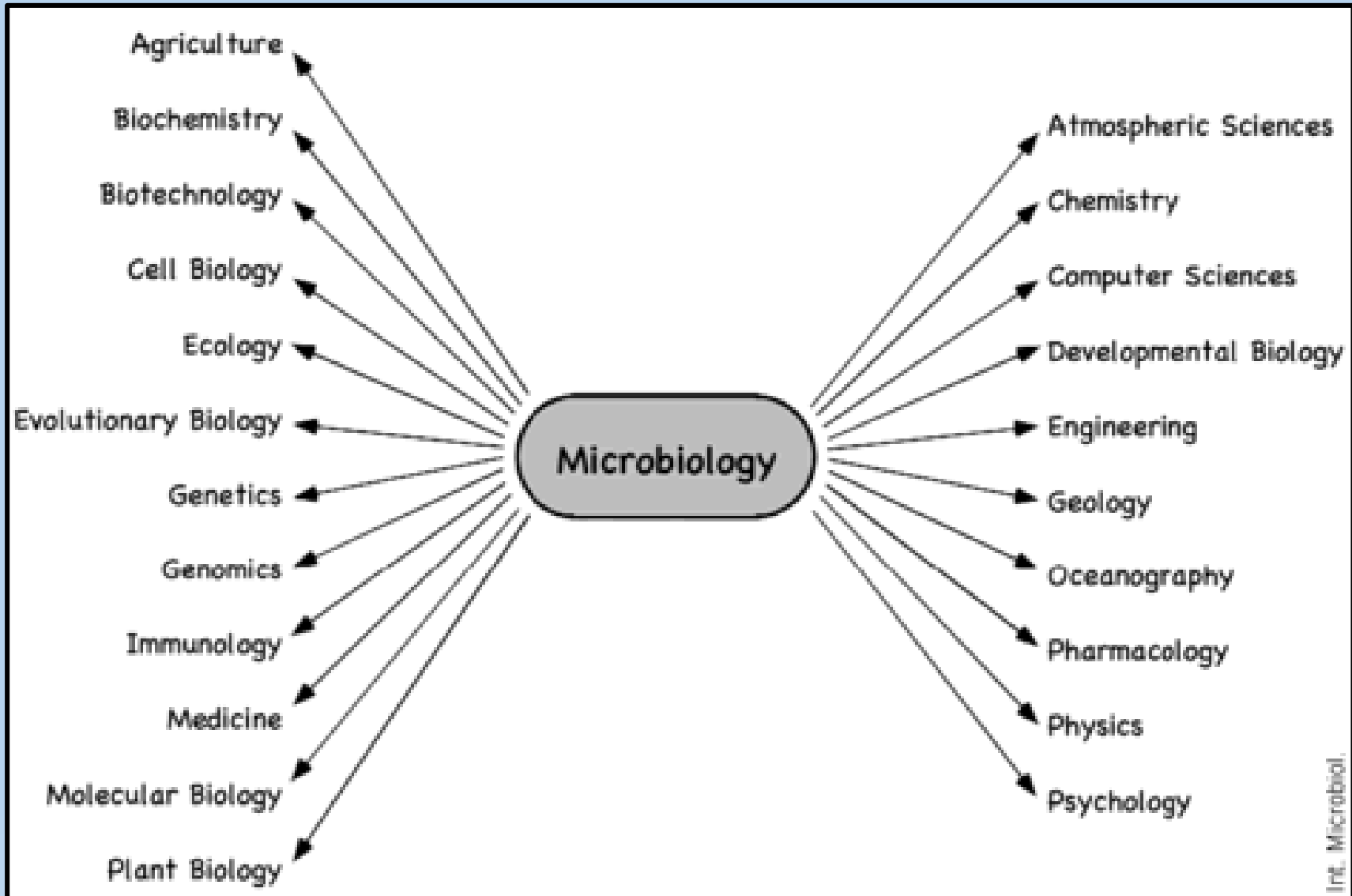
DBT- STAR Funded



*Department Of Microbiology
At Jai Hind College, Autonomous
Offers
Bachelor Of Science In Microbiology*



Microbiology has become an umbrella term that encompasses many sub disciplines or fields of study



Faculty Profile



Name of Faculty	Designation	Qualification	Experience in years
Dr Ashok Wadia	Principal	M.Phil, PhD	39
Mrs. Roonal Kataria	Head, Assistant Prof.	M.Sc , NET qualified	09
Dr. Shuchita Deepak	Assistant Prof.	PhD.	16 (03 years in Microbiology, 13 years in Biotechnology)
Mrs. Candida Silveira	Assistant Prof	M.Sc, SET qualified	02

Supporting Staff



Name	Designation	Experience in the Department
Mr. Sandesh Korgaonkar	Laboratory Assistant	08
Mr. Joobkesh Khatik	Laboratory Attendant	25
Mr. Nand Kishore Sonkar	Laboratory Attendant	08

Unique Features



- A good mix of experienced and young enthusiastic faculty.
- Student to teacher ratio at TY level- 4:1.
- Student centric approach to teaching and learning.
- Project based learning with greater emphasis on research.
- Interdisciplinary approach in teaching pedagogy.
- Developing set of skills amongst students by conducting various relevant certificate courses and student development activities.

MOU with Nirmala Niketan College of Home Sciences



Completed 6 years of MOU

Collaboration benefits students of both the institutes in terms of sharing of knowledge and resources



Course Content

Class	Semester	Course Code	Course Title
F.Y.B.Sc	Sem I	SMIC101	Fundamentals of Microbiology
		SMIC102	Basic Techniques in Microbiology
		SMIC1PR1	Practicals
	Sem II	SMIC201	Microbial Diversity
		SMIC202	Exploring Microbiology
		SMIC2PR	Practicals



Course Content

Class	Semester	Course Code	Course Title
S.Y.B.Sc	Sem III	SMIC301	Essentials of Molecular Biology
		SMIC302	Research methodology, Biostatistics and Analytical techniques
		SMIC303	Environmental and Applied Microbiology
		SMIC3PR	Practicals
	Sem IV	SMIC401	Microbial Biochemistry
		SMIC402	Taxonomy and Basics in Immunology
		SMIC403	Food and Industrial Microbiology
		SMIC4PR	Practicals

Course Content



Class	Semester	Course Code	Course Title
T.Y.B.Sc	Sem V	SMIC501	Microbial Genetics and Cell Biology
		SMIC502	Medical Microbiology & Immunology: Part-I
		SMIC503	Microbial Biochemistry: Part – I
		SMIC504	Bioprocess Technology: Part – I
		SMIC5PR1	Practicals based on paper 1 and 2
		SMIC5PR2	Practicals based on paper 3 and 4
	Sem VI	SMIC601	rDNA technology, Bioinformatics and Virology
		SMIC602	Medical Microbiology & Immunology: Part- II
		SMIC603	Microbial Biochemistry: Part –II
		SMIC604	Bioprocess Technology: Part – I
		SMIC6PR1	Practicals based on paper 1 and 2
		SMICPR2	Practicals based on paper 3 and 4

Course Content



Class	Semester	Course Code	Course Title
T.Y.B.Sc Applied Component- Food Production and Processing	Sem V	SMIC5AC	Food Production and Processing (General Principles)
		SMIC5ACPR	Practicals
	Sem VI	SMIC6AC	Food Production and Processing (Applications and Q.A)
		SMIC6ACPR	Practicals

Activities of the Department



Student Development Activities

Guest lectures

Workshops

Alumni interactive sessions

Remedial coaching

Parent- Teacher meetings

Training in soft skills

Summer training and Internships

Industrial visits

Faculty Development Activities

Workshops for Teaching Faculty

Workshops for Non- Teaching faculty

Highlights of 2019-2020



Guest Lectures

- 'Preparation of Diet Chart' by Dr Veena Yardi, Nirmala Niketan College
- 'Man, mosquito and malarial parasite: Who is ahead?' by Dr Shobhona Sharma, TIFR
- How to write a research paper by Dr. Shruti Samant, Bhavans College

Workshops

- Student Workshop- Basic techniques in chromatography
- Non- Teaching Workshop- Basic Training in MS Word and Excel under STAR DBT Scheme
- Faculty Workshop- Workshop on Metagenomics

Industrial Visits and Field Trips

- BARC
- ICT
- ACTREC
- NMIMS
- Municipal Water treatment plant, Bhandup
- Wine Information Centre and Sahyadri Farms, Nashik

Research and exhibition

- Aavishkar University Research meet
- Research projects- As a part of curriculum designed under autonomy
- Xplore Science exhibition

CSR Activities



Science awareness programme

S.Y.B.Sc students visited Diamond Jubilee School and Abhinav Vidya Mandir, they gave insights to the school students on the subject of Microbiology. As a follow up the school students visited the Microbiology Lab to perform basic hands on experiments in Microbiology



Outreach activity

Routine analysis of water carried out by SYBSc students for societies around the college and the reports provided

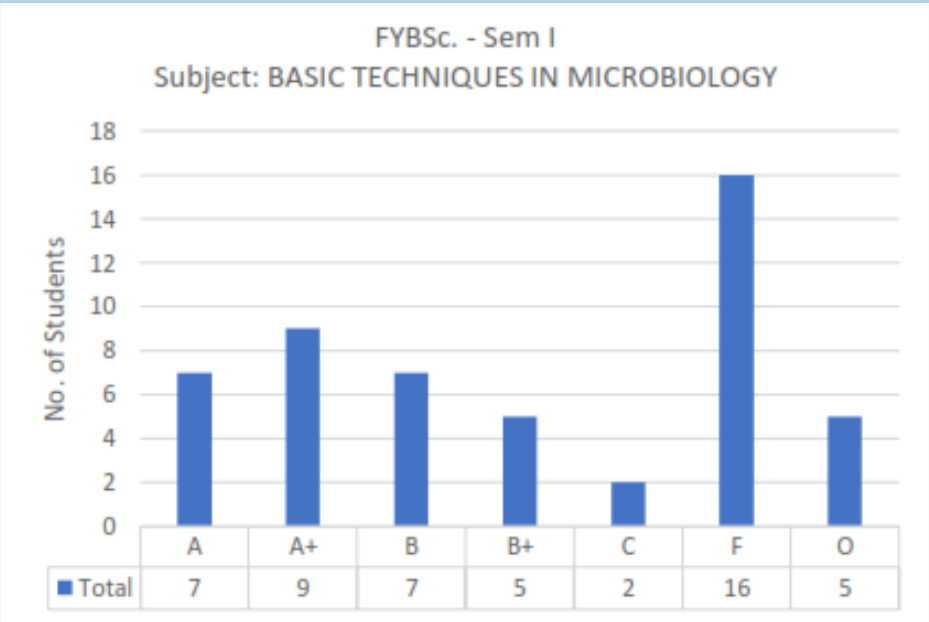
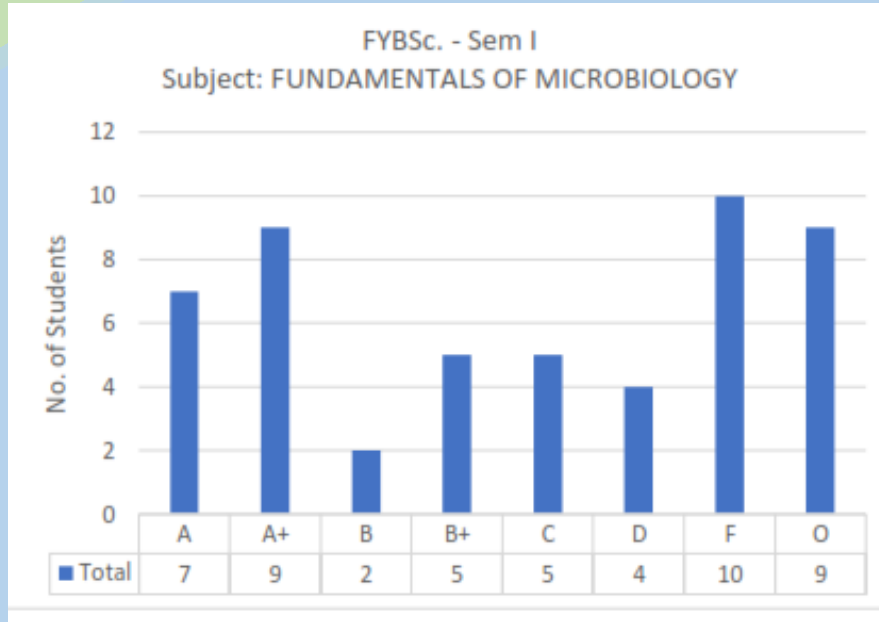


Certificate Courses Conducted

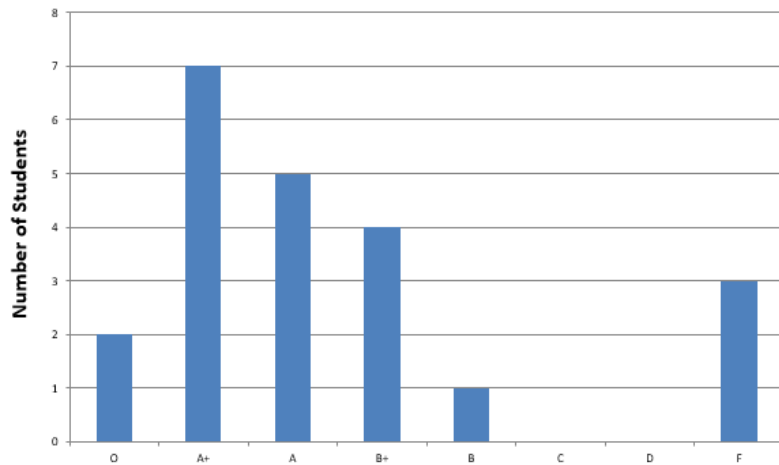


- Basic Stem cell Biology
- Biocomposting of household waste – AAA course
- Basics in Clinical Research- AAA course
- Basic Techniques of Microbiology for B.Sc students of Nirmala Niketan College of Home Sciences
- Advanced Technique in Food Microbiology for M.Sc students of Nirmala Niketan College of Home Sciences

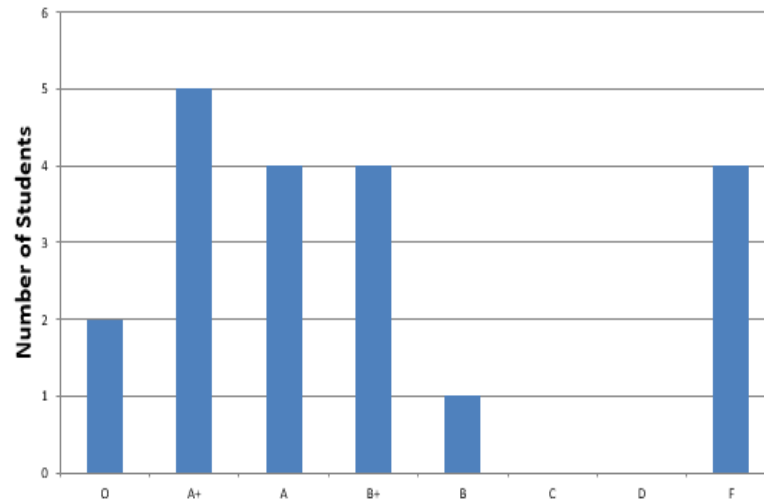
Glimpses of Students Performance (2018-2019)



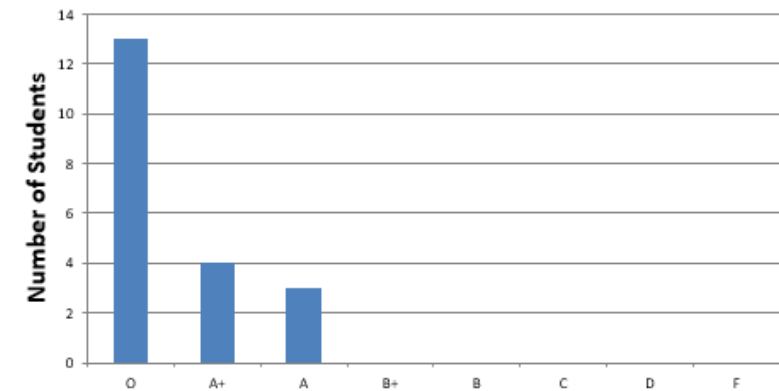
SYB.Sc Microbiology Result



TYB.Sc Microbiology Result

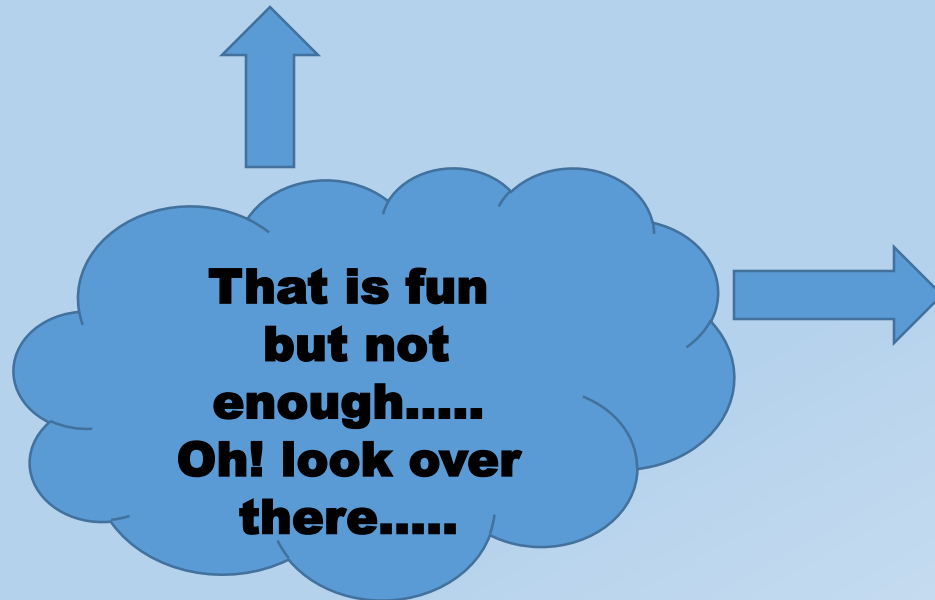


TYB.Sc Applied Component Result





SKILLS REQUIRED FOR A MICROBIOLOGIST



Check List
✓ Clear and logical thinking
✓ Good problem solving skills
✓ Team leadership ability
✓ Good writing and communication skills
✓ Excellent level of accuracy
✓ Ability to work with statistics and relevant computer packages

And here at Microbiology Department we help you nurture these skills

Glimpse of our Glorious Alumni



Dr. Vijay Sharma (Director Stem cell research, Wockhardt Hospitals)

Dr. Vibhav Sanzgiri, (Global Vice-President and Exec Director, R&D, Hindustan Unilever Ltd)

Aarti B Kamath (Regulatory Product Manager, US Food Drug and Administration)

Entrepreneurs: Amit Rao –Sai Biotech, Mr.Ranjiv Ramchandani. (TANTRA T-Shirts)

Post Doctorate: Dr.Nithya Srinivasan, Dr.Persis Wadia, Dr. Anushka Dongre in USA, Dr. Hemangi Patil

PhD: Drs. Saroj Bhanwariya , Nina Patel, Nihar Mehta, Shalaka Lotlikar , Minu Ali,

Bioinformatics: Amey Shirke, Kritika Mishra, Bhavya Santoshkumar

Nutritionist: Meenakshi Chotrani , Neha Gehi, Renuka Khedekar, Himmani Potla

Dietician- Jyoti Lalwani- Diet n Life

Marketing Manager: Manish Wadhvani (Serum Institute)

Army: Captain Mohit Sharma,

Pilot: Smita Variava

Media: Anil Thakraney, Freelance Journalist

Fashion Designer: Sangita Narang, Ashini Shah, Khushboo Lalwani

Member of Parliament: Supriya Sule

Future prospects



WITH MICROBIOLOGY,
YOU CAN BE ONE OF THESE AND MAKE A DIFFERENCE.

