

VIVEKANAND COLLEGE (AUTONOMOUS),
KOLHAPUR
DEPARTMENT OF BIOTECHNOLOGY,



BIOTECH

Add On Course
“VAD 1611 Instrumentation Course
in Life Sciences”

श्री स्वामी विवेकानंद शिक्षण संस्था कोल्हापूर

विवेकानंद कॉलेज, कोल्हापूर (स्वायत्त)

बायोटेक्नॉलॉजी विभाग

Add On Course 2021-22

"Instrumentation Course in Life Sciences"

दिनांक 23.11.2021

नोटीस

बी.एस्सी.भाग 1, 2 व 3 मधील सर्व विद्यार्थ्यांना सूचित करण्यात येते की, बायोटेक्नॉलॉजी विभागामध्ये "Instrumentation Course in Life Sciences" हा कोर्स सुरू करण्यात येत आहे, तरी इच्छुक विद्यार्थ्यांनी प्रवेशासाठी बायोटेक्नॉलॉजी विभागाशी दि.30.11.2021 पर्यंत संपर्क साधावा. (प्रवेश क्षमता मर्यादित असल्याने त्वरीत संपर्क साधावा)

Dr. A. S. Patil
23/11/2021

Head

Department of Biotechnology (Optional)
Vivekanand College, Kolhapur (Autonomous)

S. G. Patil
23/11/2021

Head

Department of Biotechnology (Entire)
Vivekanand College, Kolhapur (Autonomous)



Dr. H. S. Patil
M.Sc. (Mechs)
M.Sc. (Stat)

Dr. K. S. Patil
22/11/21

Dr. J. S. Patil

[Signature]



"Education for Knowledge, Science and Culture"

Shikshan Maharishi Dr Bapuji Salunkhe



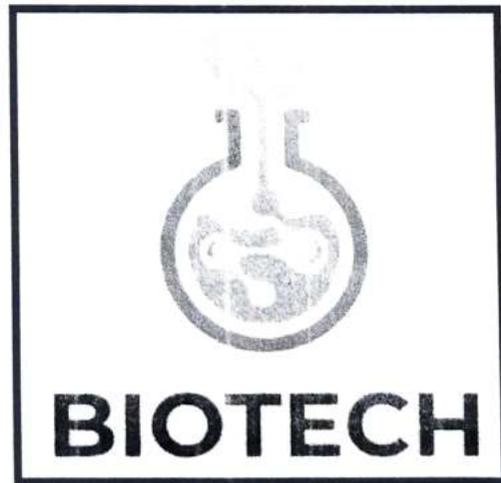
VIVEKANAND COLLEGE, KOLHAPUR

(AUTONOMOUS)

DEPARTMENT OF BIOTECHNOLOGY

Add On Course-2021-22

"VAD 1611 Instrumentation course in Life Sciences"



The course offers practical knowledge for various instruments in Life Science which helps them in their research career also helps to grab a position in various sectors like;

- Life science instrumentation manufacturers, suppliers, and providers
- Pharmacy & biotech companies and CROs
- Academic institutions and private research institutions
- Environmental testing laboratories
- Food and beverage testing centers
- Hospitals and diagnostic centers
- Service laboratories

BIOTECH

DEPARTMENT OF BIOTECHNOLOGY, VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR “Instrumentation Course in Life Sciences”

Unit I

General instruments: Principle, working & application

Digital Weighing Balance, pH meter, Centrifuge, Refrigerator, Deep Freezer, Autopipetter, Water bath, Dry Bath, Thermometer, Mini Spinner, Vortex Mixer, Magnetic Stirrer

Unit II

Instruments for Biochemistry: Principle, working & application

Colorimeter, Spectrophotometer, BOD/COD Apparatus & BOD incubator, Specific gravity bottle, Chromatography [TLC, Paper Chromatography, Ion Exchange Chromatography, Gel Filtration Chromatography], Dialysis, Refractometer.

Unit III

Instruments for Microbiology: Principle, working & application

Autoclave, Hot Air Oven Incubator, Microscope, Fermentor, Shaker Incubator, Distillation Unit, Hemocytometer, Replica Unit, Immunoassay Techniques, Colony Counter.

Unit IV

Instruments for Molecular Biology: Principle, working & application

Gel Electrophoresis, PAGE, Gel Doc system, Electro blotting, UV Transilluminator, PCR, Cooling Centrifuge, Liquid Nitrogen Homogenization, Cryopreservation.

Unit V

Instruments for Plant Tissue Culture: Principle, working & application

Hot Plate, Laminar Air Flow, Rotatory Shaker, Cell Counter, PH Meter, Culture Room

Practical Syllabus for "VAD -1611 INSTRUMENTATION COURSE IN LIFE SCIENCES"

Sr No.	Name of the Practical	Practical 14	Work Load
1	Demonstration of Dialysis	1	APJ
2	Demonstration of Chromatography(Ion Exchange and Gel Filtration)	2	SHN
3	Demonstration of Chromatography(TLC and Paper)	2	SHN
4	Demonstration of Spectrophotometer	1	SGK
5	Demonstration of PCR (Thermo cycler)	1	MDU
6	Demonstration of Laminar Air Flow	1	MDU
7	Determination of Standard Plate Count	1	VNM
8	Demonstration of Flame Photometer	1	SGK
9	Micrometry (Determination of Size of Microscopic Objects)	1	APJ/SGK
10	Demonstration of Visualization and estimation of DNA (Gel electrophoresis, Gel Documentation, U.V Transilluminator)	3	ALU
11	Demonstration of Plant Tissue Culture technique (aseptic inoculation)	2	PDP
12	Demonstration of Plant Tissue Culture technique (Surface sterilization)	2	PDP
13	Homogenization By Liquid Nitrogen demonstration	1	ALU
14	Demonstration of all general instruments required in Life sciences	1	VNM
Total Practicals		20	

Note1: Practical duration will be of 1 hour

Codes Used:

1. **SGK** : Mr. S.G.Kulkarni
2. **SHN**: Ms .S.H.Nadaf
3. **ALU**: Mr. A.L.Upadhye
4. **VNM**: Ms. V.N.More
5. **MDU**: Ms. M.D.Ulape
6. **PDP** : Ms. P.D.Patil
7. **APJ**: Ms. A.P.Jadhav

श्री स्वामी विवेकानंद शिक्षण संस्था
 Vivekanand College, Kolhapur
 Department of Biotechnology
 Value Added Course
"Instrumentation Course in Life Sciences"
Exam Attendance

Sr. No.		Name of The Students	Class	Fees	Sign.
BATCH -A					
1	*	Ghule Uma Sanjay	B.Sc.I Biotech (Ent.)	500	<i>[Signature]</i>
2	*	Sawant Bramhali Vakil	B.Sc.I Biotech (Ent.)	500	<i>[Signature]</i>
3	*	Bhoite Pranali Pratapsinh	B.Sc.III Biotech (Ent.)	500	<i>[Signature]</i>
4	*	Rajguru Priyanka Dhanaji	B.Sc.III Biotech (Ent.)	500	<i>[Signature]</i>
5		Bedekar Pranav Anil	B.Sc.II Biotech (Ent.)	500	<i>[Signature]</i>
6	*	Chavan Pratiksha Ananda	B.Sc.II Biotech (Ent.)	500	<i>[Signature]</i>
7		Ghorpade Pritam Ramesh	B.Sc.II Biotech (Ent.)	500	<i>[Signature]</i>
8	*	Tahasildar Sanika Samrat	B.Sc.II Biotech (Ent.)	500	<i>[Signature]</i>
9	*	Awalkar Anchal Nandkumar	B.Sc.II Biotech (Ent.)	500	<i>[Signature]</i>
10	*	Kathare Sakshi Anil alias Atmaram	B.Sc.I Biotech (Ent.)	500	<i>[Signature]</i>
11	*	Bhosale Nisha Subhash	B.Sc.I Biotech (Ent.)	500	<i>[Signature]</i>
12	*	Shinde Sayali Yasheant	B.Sc.I Biotech (Ent.)	500	<i>[Signature]</i>
13	*	Patil Mrunal Babaso	B.Sc.I Biotech (Ent.)	500	<i>[Signature]</i>
14	*	Dhenge Janvi Shirish	B.Sc.I Biotech (Ent.)	500	<i>[Signature]</i>
15	*	Kole Sanika Uttam	B.Sc.I Biotech (Ent.)	500	<i>[Signature]</i>
16	*	Vedpathak Aditi Atul	B.Sc.I Biotech (Ent.)	500	<i>[Signature]</i>
17	*	Hajgude Sakshi Mukesh	B.Sc.I Biotech (Ent.)	500	<i>[Signature]</i>
18	*	Patil Gayatri Bhaurao	B.Sc.I Biotech (Ent.)	500	<i>[Signature]</i>
19	*	Patil Saloni Suhas	B.Sc.I Biotech (Ent.)	500	<i>[Signature]</i>
20	*	Jagatap Pratikshi Baban	B.Sc.I Biotech (Ent.)	500	<i>[Signature]</i>
21	*	Davkare Pooja Tatyaso	B.Sc.I Biotech (Ent.)	500	<i>[Signature]</i>
22	*	Dixit Sakshi Prasip	B.Sc.I Biotech (Ent.)	500	<i>[Signature]</i>
23		Kadam Aniket Balasaheb	B.Sc.II Biotech (Ent.)	500	<i>[Signature]</i>
24		Chogule Vrushabh Suresh	B.Sc.III Biotech (Ent.)	500	<i>[Signature]</i>
25	*	Kulkarni Aarya Dhanajay	B.Sc.I Biotech (Ent.)	500	<i>[Signature]</i>
26		Mane Mohit Sunil	B.Sc.I Biotech (Ent.)	500	<i>[Signature]</i>
27		Kadam Suraj Santosh	B.Sc.I Biotech (Ent.)	500	<i>[Signature]</i>
28		Patil Pruthviraj Amar	B.Sc.I Biotech (Ent.)	500	<i>[Signature]</i>
29	*	Potdar Arya Santosh	B.Sc.I Biotech (Ent.)	500	<i>[Signature]</i>
30	*	Arab Jakiya AbdulMajid	B.Sc.II Biotech (Ent.)	500	<i>[Signature]</i>

BATCH - B

31	*	Siddhnaik Radhika Bapu	B.Sc.II Biotech (Ent.)	500	<i>R.S. Naik</i>
32		Shirke Harshwardhan Dattatraya	B.Sc.II Biotech (Ent.)	500	<i>H. Shirke</i>
33	*	Kolekar Arya Ramchandra	B.Sc.II Biotech (Ent.)	500	<i>A. Kolekar</i>
34	*	Athanikar Sabira Nijam	B.Sc.II Biotech (Ent.)	500	<i>S. Athanikar</i>
35	*	Inamdar Varda Rahul	B.Sc.II Biotech (Ent.)	500	<i>V. Inamdar</i>
36	*	Deshpande Vaibhavi Harish	B.Sc.II Biotech (Ent.)	500	<i>V. Deshpande</i>
37		Gawade Chinamay Vijay	B.Sc.II Biotech (Ent.)	500	<i>C. Gawade</i>
38		Shinde Swanand Arun	B.Sc.II Biotech (Ent.)	500	<i>S. Shinde</i>
39	*	Patil Araya Vijay	B.Sc.II Biotech (Ent.)	500	<i>V. Patil</i>
40	*	Patil Vaishnavi Rajendra	B.Sc.II Biotech (Ent.)	500	<i>V. Patil</i>
41	*	Varute Ankita Ashwinkumar	B.Sc.II Biotech (Ent.)	500	<i>A. Varute</i>
42		Nalawade Saurabh Dattatrya	B.Sc.II Biotech (Ent.)	500	<i>S. Nalawade</i>
43	*	Parakr Siddhi Sunil	B.Sc.II Biotech (Ent.)	500	<i>S. Parakr</i>
44	*	Savardekar Vaishnavi Umesh	B.Sc.II Biotech (Ent.)	500	<i>V. Savardekar</i>
45	*	Kamble Ekata Hement	B.Sc.II Biotech (Ent.)	500	<i>E. Kamble</i>
46	*	Patil Divya Suresh	B.Sc.II Biotech (Ent.)	500	<i>D. Patil</i>
47	*	Surve Maithili Vikrant	B.Sc.II Biotech (Ent.)	500	<i>M. Surve</i>
48	*	Kamble Vaishnavi Ashok	B.Sc.III Biotech (Ent.)	500	<i>V. Kamble</i>
49	*	Chavn Mrunmayi Anil	B.Sc.III Biotech (Ent.)	500	<i>M. Chavn</i>
50	*	Alave Aarya Rajendra	B.Sc.II Biotech (Ent.)	500	<i>A. Alave</i>
51	*	Patil Anjali Rajendta	B.Sc.II Biotech (Ent.)	500	<i>A. Patil</i>
52		Shaikh Firas Dilawar	B.Sc.II Biotech (Ent.)	500	<i>F. Shaikh</i>
53	*	Kulkarni Gayatri Raghunath	B.Sc.II Biotech (Ent.)	500	<i>G. Kulkarni</i>
54	*	Shah Medinee Prasanna	B.Sc.II Biotech (Ent.)	500	<i>M. Shah</i>
55	*	Palkar Sharavari Maniksen	B.Sc.II Biotech (Ent.)	500	<i>S. Palkar</i>
56	*	Patil Rutuja Anandrao	B.Sc.II Biotech (Ent.)	500	<i>R. Patil</i>
57	*	Chougale Nikita Bharat	B.Sc.II Biotech (Ent.)	500	<i>N. Chougale</i>
58	*	Mane Utkarsha Gajendra	B.Sc.II Biotech (Ent.)	500	<i>U. Mane</i>
59		Patil Avdhut Mohan	B.Sc.II Biotech (Ent.)	500	<i>A. Patil</i>
60		Chikhale Roshan Prakash	B.Sc.II Biotech (Ent.)	500	<i>R. Chikhale</i>
61	*	Korane Pratiksha Tanajui	B.Sc.II Biotech (Ent.)	500	<i>P. Korane</i>
62	*	Wadkar Shreya Sunil	B.Sc.II Biotech (Ent.)	500	<i>S. Wadkar</i>
63		Sharma Aaditya Navalkishor	B.Sc.II Biotech (Ent.)	500	<i>A. Sharma</i>
64	*	Namarata Dharmagonda Patil	B.Sc.II Biotech (Ent.)	500	<i>N. Patil</i>
65	*	Shweta Tanaji Patil	B.Sc.II Biotech (Ent.)	500	<i>S. Patil</i>
66	*	Aragu Rasika Ramesh	B.Sc.III Biotech (Ent)	500	<i>R. Aragu</i>
67	*	Pujari Poonam Sukhadev	B.Sc.III Biotech (Ent)	500	<i>P. Pujari</i>

[Signature]
Co-ordinator

CO-ORDINATOR
ADD-ON COURSE

DEPARTMENT OF BIOTECHNOLOGY
VIVEKANAND COLLEGE, KOLHAPUR
(EST. 1964)



[Signature]
Head
Head

Department of Biotechnology (Entire)
Vivekanand College, Kolhapur (Autonomous)

VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR

DEPARTMENT OF BIOTECHNOLOGY

Teaching Faculty for

"VAD -1611 INSTRUMENTATION COURSE IN LIFE SCIENCES"

Sr No.	Name	Post
1	Mr. A.L.Upadhye	Co-ordinator
2	Mr. S.G.Kulkarni	Staff
3	Ms .S.H.Nadaf	Staff
4	Ms. V.N.More	Staff
5	Ms. M.D.Ulape	Staff
6	Ms. P.D.Patil	Staff
7	Ms. S.V. Sarnaik	Staff
8	Ms A.B. Sarmukh	Staff




Mr. A.L. Upadhye
(CO-ORDINATOR)
ADD-ON COURSE
DEPARTMENT OF BIOTECHNOLOGY
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)

Vivekanand College, Kolhapur
 Department of Biotechnology
 Value Added Course
 "Instrumentation Course in Life Sciences"

Sr.No.	Name of The Students	Class	Name of The Teacher:												
			L/P	L/P	L/P	L/P	L/P	L/P	L/P	L/P	L/P	L/P	L/P		
BATCH A															
1	* Ghule Uma Sanjay	B.Sc.I Biotech (Ent.)	Uma	Uma	Uma	Uma	Uma	Uma	Uma	Uma	Uma	Uma	Uma	Uma	Uma
2	* Sawant Bramhali Vakil	B.Sc.I Biotech (Ent.)	Bramhali	Bramhali	Bramhali	Bramhali	Bramhali	Bramhali	Bramhali	Bramhali	Bramhali	Bramhali	Bramhali	Bramhali	Bramhali
3	* Bhoite Pranali Pratapsinh	B.Sc.III Biotech (Ent.)	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali	Pranali
4	* Rajguru Priyanka Dhanaji	B.Sc.III Biotech (Ent.)	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka
5	* Bedekar Pranav Anil	B.Sc.II Biotech (Ent.)	Pranav	Pranav	Pranav	Pranav	Pranav	Pranav	Pranav	Pranav	Pranav	Pranav	Pranav	Pranav	Pranav
6	* Chavan Pratiksha Ananda	B.Sc.II Biotech (Ent.)	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha
7	* Ghorpade Pritam Ramesh	B.Sc.II Biotech (Ent.)	Pritam	Pritam	Pritam	Pritam	Pritam	Pritam	Pritam	Pritam	Pritam	Pritam	Pritam	Pritam	Pritam
8	* Tahasildar Sanika Samrat	B.Sc.II Biotech (Ent.)	Sanika	Sanika	Sanika	Sanika	Sanika	Sanika	Sanika	Sanika	Sanika	Sanika	Sanika	Sanika	Sanika
9	* Awalkar Anchal Nandkumar	B.Sc.II Biotech (Ent.)	Anchal	Anchal	Anchal	Anchal	Anchal	Anchal	Anchal	Anchal	Anchal	Anchal	Anchal	Anchal	Anchal
10	* Kathare Sakshi Anil alias Atmaram	B.Sc.I Biotech (Ent.)	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi
11	* Bhosale Nisha Subhash	B.Sc.I Biotech (Ent.)	Nisha	Nisha	Nisha	Nisha	Nisha	Nisha	Nisha	Nisha	Nisha	Nisha	Nisha	Nisha	Nisha
12	* Shinde Sayali Yashwant	B.Sc.I Biotech (Ent.)	Sayali	Sayali	Sayali	Sayali	Sayali	Sayali	Sayali	Sayali	Sayali	Sayali	Sayali	Sayali	Sayali
13	* Patil Mrunal Babaso	B.Sc.I Biotech (Ent.)	Mrunal	Mrunal	Mrunal	Mrunal	Mrunal	Mrunal	Mrunal	Mrunal	Mrunal	Mrunal	Mrunal	Mrunal	Mrunal
14	* Dhenge Janvi Shirish	B.Sc.I Biotech (Ent.)	Janvi	Janvi	Janvi	Janvi	Janvi	Janvi	Janvi	Janvi	Janvi	Janvi	Janvi	Janvi	Janvi
15	* Kole Sanika Uttam	B.Sc.I Biotech (Ent.)	Sanika	Sanika	Sanika	Sanika	Sanika	Sanika	Sanika	Sanika	Sanika	Sanika	Sanika	Sanika	Sanika
16	* Vedpathak Aditi Atul	B.Sc.I Biotech (Ent.)	Aditi	Aditi	Aditi	Aditi	Aditi	Aditi	Aditi	Aditi	Aditi	Aditi	Aditi	Aditi	Aditi
17	* Hajgude Sakshi Mukesh	B.Sc.I Biotech (Ent.)	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi
18	* Patil Gayatri Bhaurao	B.Sc.I Biotech (Ent.)	Gayatri	Gayatri	Gayatri	Gayatri	Gayatri	Gayatri	Gayatri	Gayatri	Gayatri	Gayatri	Gayatri	Gayatri	Gayatri
19	* Patil Saloni Suhas	B.Sc.I Biotech (Ent.)	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni
20	* Jagtap Pratiksha Baban	B.Sc.I Biotech (Ent.)	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha
21	* Davkare Pooja Tatyaso	B.Sc.I Biotech (Ent.)	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja
22	* Dixit Sakshi Pradip	B.Sc.I Biotech (Ent.)	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi
23	* Kadam Aniket Balasaheb	B.Sc.II Biotech (Ent.)	Aniket	Aniket	Aniket	Aniket	Aniket	Aniket	Aniket	Aniket	Aniket	Aniket	Aniket	Aniket	Aniket
24	* Choguale Vrashab Suresh	B.Sc.II Biotech (Ent.)	Vrashab	Vrashab	Vrashab	Vrashab	Vrashab	Vrashab	Vrashab	Vrashab	Vrashab	Vrashab	Vrashab	Vrashab	Vrashab
25	* Kulkarni Aarya Dhanajay	B.Sc.I Biotech (Ent.)	Aarya	Aarya	Aarya	Aarya	Aarya	Aarya	Aarya	Aarya	Aarya	Aarya	Aarya	Aarya	Aarya
26	* Mane Mohit Sunil	B.Sc.I Biotech (Ent.)	Mohit	Mohit	Mohit	Mohit	Mohit	Mohit	Mohit	Mohit	Mohit	Mohit	Mohit	Mohit	Mohit
27	* Kadam Suraj Santosh	B.Sc.I Biotech (Ent.)	Suraj	Suraj	Suraj	Suraj	Suraj	Suraj	Suraj	Suraj	Suraj	Suraj	Suraj	Suraj	Suraj
28	* Patil Pruthviraj Amar	B.Sc.I Biotech (Ent.)	Pruthviraj	Pruthviraj	Pruthviraj	Pruthviraj	Pruthviraj	Pruthviraj	Pruthviraj	Pruthviraj	Pruthviraj	Pruthviraj	Pruthviraj	Pruthviraj	Pruthviraj
29	* Potdar Arya Santosh	B.Sc.I Biotech (Ent.)	Arya	Arya	Arya	Arya	Arya	Arya	Arya	Arya	Arya	Arya	Arya	Arya	Arya
30	* Arab Jakiya AbdulMajid	B.Sc.II Biotech (Ent.)	Jakiya	Jakiya	Jakiya	Jakiya	Jakiya	Jakiya	Jakiya	Jakiya	Jakiya	Jakiya	Jakiya	Jakiya	Jakiya

1	PATKARE ASMITA ANANDA	78	100	open
	... SIDDHI AMAR	76	100	OPEN
		75	100	

BATCH B

31	*	Siddhnaik Radhika Bapu	B.Sc.II Biotech (Ent.)	Ashta	Ashta	Ashta	Ashta	Ashta	Ashta	Ashta	Ashta	Ashta	Ashta	Ashta	Ashta	Ashta	Ashta
32		Shirke Harshwardhan Dattatraya	B.Sc.II Biotech (Ent.)	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek
33	*	Kolekar Arya Ramchandra	B.Sc.II Biotech (Ent.)	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek
34	*	Athanikar Sabira Nijam	B.Sc.II Biotech (Ent.)	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek
35	*	Inamdar Varda Rahul	B.Sc.II Biotech (Ent.)	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek
36	*	Deshpande Vaibhavi Harish	B.Sc.II Biotech (Ent.)	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek
37		Gawade Chinamay Vijay	B.Sc.II Biotech (Ent.)	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek
38		Shinde Swanand Arun	B.Sc.II Biotech (Ent.)	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek
39	*	Patil Araya Vijay	B.Sc.II Biotech (Ent.)	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek
40	*	Patil Vaishnavi Rajendra	B.Sc.II Biotech (Ent.)	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek
41	*	Var Ankita Ashwinkumar	B.S. 'I Biotech (Ent.)	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek
42		Nalawade Saurabh Dattatrya	B.Sc.II Biotech (Ent.)	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek
43	*	Parkar Siddhi Sunil	B.Sc.II Biotech (Ent.)	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek
44	*	Savardekar Vaishnavi Umesh	B.Sc.II Biotech (Ent.)	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek
45	*	Kamble Ekata Hemant	B.Sc.II Biotech (Ent.)	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek
46	*	Patil Divya Suresh	B.Sc.II Biotech (Ent.)	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek
47	*	Surve Maithili Vikrant	B.Sc.II Biotech (Ent.)	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek
48	*	Kamble Vaishnavi Ashok	B.Sc.III Biotech (Ent.)	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek
49	*	Chavan Mrunmayi Anil	B.Sc.III Biotech (Ent.)	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek
50	*	Alave Aarya Rajendra	B.Sc.II Biotech (Ent.)	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek
51	*	Patil Anjali Rajendra	B.Sc.II Biotech (Ent.)	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek
52		Shaikh Firas Dilawar	B.Sc.II Biotech (Ent.)	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek
53	*	Kulkarni Gayatri Raghunath	B.Sc.II Biotech (Ent.)	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek
54	*	Shah Medinee Prasanna	B.Sc.II Biotech (Ent.)	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek
55	*	Palkar Sharvari Maniksen	B.Sc.II Biotech (Ent.)	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek
56	*	Patil Rutuja Anandrao	B.Sc.II Biotech (Ent.)	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek
57	*	Chougale Nikita Bharat	B.Sc.II Biotech (Ent.)	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek
58	*	Mane Utkarsha Gajendra	B.Sc.II Biotech (Ent.)	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek
59		Patil Avdhut Mohan	B.Sc.II Biotech (Ent.)	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek
60		Chikhale Roshan Prakash	B.Sc.II Biotech (Ent.)	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek
61	*	Korane Pratiksha Tanaji	B.Sc.II Biotech (Ent.)	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek
62	*	Wadkar Shreya Sunil	B.Sc.II Biotech (Ent.)	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek
63		Sharma Aaditya Navalkishor	B.Sc.II Biotech (Ent.)	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek
64	*	Namarata Dharmagonda Patil	B.Sc.II Biotech (Ent.)	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek
65	*	Shweta Tanaji Patil	B.Sc.II Biotech (Ent.)	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek
66	*	Aragu Rasika Ramesh	B.Sc.III Biotech (Ent.)	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek
67	*	PURARI POONAM SUKHADEV	B.Sc.III Biotech (Ent.)	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek	Pratek

Co ordinator

Heads

BATCH B

31	*	Siddhnaik Radhika Bapu	B.Sc.II Biotech (Ent)	Radhika	Radhika	Radhika	Radhika	Radhika	Radhika	Radhika	Radhika	Radhika	Radhika	Radhika	Radhika	Radhika	Radhika	Radhika
32		Shirke Harshwardhan Dattatraya	B.Sc.II Biotech (Ent)	Shirke	Shirke	Shirke	Shirke	Shirke	Shirke	Shirke	Shirke	Shirke	Shirke	Shirke	Shirke	Shirke	Shirke	Shirke
33	*	Kolekar Arya Ramchandra	B.Sc.II Biotech (Ent)	Kolekar	Kolekar	Kolekar	Kolekar	Kolekar	Kolekar	Kolekar	Kolekar	Kolekar	Kolekar	Kolekar	Kolekar	Kolekar	Kolekar	Kolekar
34	*	Athanakar Sabira Nijam	B.Sc.II Biotech (Ent)	Athanakar	Athanakar	Athanakar	Athanakar	Athanakar	Athanakar	Athanakar	Athanakar	Athanakar	Athanakar	Athanakar	Athanakar	Athanakar	Athanakar	Athanakar
35	*	Inamdar Varda Rahul	B.Sc.II Biotech (Ent)	Inamdar	Inamdar	Inamdar	Inamdar	Inamdar	Inamdar	Inamdar	Inamdar	Inamdar	Inamdar	Inamdar	Inamdar	Inamdar	Inamdar	Inamdar
36	*	Deshpande Vaibhavi Harish	B.Sc.II Biotech (Ent)	Deshpande	Deshpande	Deshpande	Deshpande	Deshpande	Deshpande	Deshpande	Deshpande	Deshpande	Deshpande	Deshpande	Deshpande	Deshpande	Deshpande	Deshpande
37		Gawade Chinamay Vijay	B.Sc.II Biotech (Ent)	Gawade	Gawade	Gawade	Gawade	Gawade	Gawade	Gawade	Gawade	Gawade	Gawade	Gawade	Gawade	Gawade	Gawade	Gawade
38		Shinde Swanand Arun	B.Sc.II Biotech (Ent)	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde
39	*	Patil Araya Vijay	B.Sc.II Biotech (Ent)	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
40	*	Patil Vaishnavi Rajendra	B.Sc.II Biotech (Ent)	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
41	*	Varute Ankita Ashinkumar	B.Sc.II Biotech (Ent)	Varute	Varute	Varute	Varute	Varute	Varute	Varute	Varute	Varute	Varute	Varute	Varute	Varute	Varute	Varute
42		Nalawade Saurabh Dattatrya	B.Sc.II Biotech (Ent)	Nalawade	Nalawade	Nalawade	Nalawade	Nalawade	Nalawade	Nalawade	Nalawade	Nalawade	Nalawade	Nalawade	Nalawade	Nalawade	Nalawade	Nalawade
43	*	Parkar Siddhi Sunil	B.Sc.II Biotech (Ent)	Parkar	Parkar	Parkar	Parkar	Parkar	Parkar	Parkar	Parkar	Parkar	Parkar	Parkar	Parkar	Parkar	Parkar	Parkar
44	*	Savardekar Vaishnavi Umesh	B.Sc.II Biotech (Ent)	Savardekar	Savardekar	Savardekar	Savardekar	Savardekar	Savardekar	Savardekar	Savardekar	Savardekar	Savardekar	Savardekar	Savardekar	Savardekar	Savardekar	Savardekar
45	*	Kamble Ekata Hemant	B.Sc.II Biotech (Ent)	Kamble	Kamble	Kamble	Kamble	Kamble	Kamble	Kamble	Kamble	Kamble	Kamble	Kamble	Kamble	Kamble	Kamble	Kamble
46	*	Patil Divya Suresh	B.Sc.II Biotech (Ent)	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
47	*	Surve Maithili Vikrant	B.Sc.II Biotech (Ent)	Surve	Surve	Surve	Surve	Surve	Surve	Surve	Surve	Surve	Surve	Surve	Surve	Surve	Surve	Surve
48	*	Kamble Vaishnavi Ashok	B.Sc.III Biotech (Ent)	Kamble	Kamble	Kamble	Kamble	Kamble	Kamble	Kamble	Kamble	Kamble	Kamble	Kamble	Kamble	Kamble	Kamble	Kamble
49	*	Chavan Mrunmayi Anil	B.Sc.III Biotech (Ent)	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan
50	*	Alave Aarya Rajendra	B.Sc.II Biotech (Ent)	Alave	Alave	Alave	Alave	Alave	Alave	Alave	Alave	Alave	Alave	Alave	Alave	Alave	Alave	Alave
51	*	Patil Anjali Rajendra	B.Sc.II Biotech (Ent)	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
52		Shaikh Firas Dilawar	B.Sc.II Biotech (Ent)	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh
53	*	Kulkarni Gayatri Raghunath	B.Sc.II Biotech (Ent)	Kulkarni	Kulkarni	Kulkarni	Kulkarni	Kulkarni	Kulkarni	Kulkarni	Kulkarni	Kulkarni	Kulkarni	Kulkarni	Kulkarni	Kulkarni	Kulkarni	Kulkarni
54	*	Shah Medinee Prasanna	B.Sc.II Biotech (Ent)	Shah	Shah	Shah	Shah	Shah	Shah	Shah	Shah	Shah	Shah	Shah	Shah	Shah	Shah	Shah
55	*	Palkar Sharvari Maniksen	B.Sc.II Biotech (Ent)	Palkar	Palkar	Palkar	Palkar	Palkar	Palkar	Palkar	Palkar	Palkar	Palkar	Palkar	Palkar	Palkar	Palkar	Palkar
56	*	Patil Rutuja Anandao	B.Sc.II Biotech (Ent)	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
57	*	Chougale Nikita Bharat	B.Sc.II Biotech (Ent)	Chougale	Chougale	Chougale	Chougale	Chougale	Chougale	Chougale	Chougale	Chougale	Chougale	Chougale	Chougale	Chougale	Chougale	Chougale
58	*	Mane Utarksha Gajendra	B.Sc.II Biotech (Ent)	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane
59		Patil Avdhut Mohan	B.Sc.II Biotech (Ent)	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
60		Chikhale Roshan Prakash	B.Sc.II Biotech (Ent)	Chikhale	Chikhale	Chikhale	Chikhale	Chikhale	Chikhale	Chikhale	Chikhale	Chikhale	Chikhale	Chikhale	Chikhale	Chikhale	Chikhale	Chikhale
61	*	Korane Pratiksha Tanaji	B.Sc.II Biotech (Ent)	Korane	Korane	Korane	Korane	Korane	Korane	Korane	Korane	Korane	Korane	Korane	Korane	Korane	Korane	Korane
62	*	Wadkar Shreya Sunil	B.Sc.II Biotech (Ent)	Wadkar	Wadkar	Wadkar	Wadkar	Wadkar	Wadkar	Wadkar	Wadkar	Wadkar	Wadkar	Wadkar	Wadkar	Wadkar	Wadkar	Wadkar
63		Sharma Aaditya Navalkishor	B.Sc.II Biotech (Ent)	Sharma	Sharma	Sharma	Sharma	Sharma	Sharma	Sharma	Sharma	Sharma	Sharma	Sharma	Sharma	Sharma	Sharma	Sharma
64	*	Namarata Dharmagonda Patil	B.Sc.II Biotech (Ent)	Namarata	Namarata	Namarata	Namarata	Namarata	Namarata	Namarata	Namarata	Namarata	Namarata	Namarata	Namarata	Namarata	Namarata	Namarata
65	*	Shweta Tanaji Patil	B.Sc.II Biotech (Ent)	Shweta	Shweta	Shweta	Shweta	Shweta	Shweta	Shweta	Shweta	Shweta	Shweta	Shweta	Shweta	Shweta	Shweta	Shweta
66	*	Aragu Rasika Ramesh	B.Sc.III Biotech (Ent)	Aragu	Aragu	Aragu	Aragu	Aragu	Aragu	Aragu	Aragu	Aragu	Aragu	Aragu	Aragu	Aragu	Aragu	Aragu
67	*	PUSARI POONAM SUKHADEV	B.Sc.III Biotech (Ent)	Pusari	Pusari	Pusari	Pusari	Pusari	Pusari	Pusari	Pusari	Pusari	Pusari	Pusari	Pusari	Pusari	Pusari	Pusari

Co ordinator

Heads

BATCH B

31	*	Siddhnaik Radhika Bapu	B.Sc.II Biotech (Ent.)	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav
32		Shirke Harshwardhan Dattatraya	B.Sc.II Biotech (Ent.)	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav
33	*	Kolekar Arya Ramchandra	B.Sc.II Biotech (Ent.)	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav
34	*	Athanikar Sabira Nijam	B.Sc.II Biotech (Ent.)	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav
35	*	Inamdar Varda Rahul	B.Sc.II Biotech (Ent.)	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav
36	*	Deshpande Vaibhavi Harish	B.Sc.II Biotech (Ent.)	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav
37		Gawade Chinamay Vijay	B.Sc.II Biotech (Ent.)	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav
38		Shinde Swanand Arun	B.Sc.II Biotech (Ent.)	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav
39	*	Patil Araya Vijay	B.Sc.II Biotech (Ent.)	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav
40	*	Patil Vaishnavi Rajendra	B.Sc.II Biotech (Ent.)	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav
41	*	Varute Anki Ashwinkumar	B.Sc.II Biotech (Ent.)	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav
42		Nalawade Saurabh Dattatraya	B.Sc.II Biotech (Ent.)	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav
43	*	Parkar Siddhi Sunil	B.Sc.II Biotech (Ent.)	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav
44	*	Savardekar Vaishnavi Umesh	B.Sc.II Biotech (Ent.)	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav
45	*	Kamble Ekata Hemant	B.Sc.II Biotech (Ent.)	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav
46	*	Patil Divya Suresh	B.Sc.II Biotech (Ent.)	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav
47	*	Surve Maithili Vikrant	B.Sc.II Biotech (Ent.)	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav
48	*	Kamble Vaishnavi Ashok	B.Sc.II Biotech (Ent.)	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav
49	*	Chavan Mrunmayi Anil	B.Sc.III Biotech (Ent.)	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav
50	*	Alave Arya Rajendra	B.Sc.II Biotech (Ent.)	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav
51	*	Patil Anjali Rajendra	B.Sc.II Biotech (Ent.)	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav
52		Shaikh Firas Dilawar	B.Sc.II Biotech (Ent.)	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav
53	*	Kulkarni Gayatri Raghunath	B.Sc.II Biotech (Ent.)	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav
54	*	Shah Medinee Prasanna	B.Sc.II Biotech (Ent.)	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav
55	*	Palkar Sharvari Maniksen	B.Sc.II Biotech (Ent.)	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav
56	*	Patil Rutuja Anandara	B.Sc.II Biotech (Ent.)	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav
57	*	Chougale Nikita Bharat	B.Sc.II Biotech (Ent.)	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav
58	*	Mane Utkarsha Gajendra	B.Sc.II Biotech (Ent.)	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav
59		Patil Avdhut Mohan	B.Sc.II Biotech (Ent.)	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav
60		Chikhale Roshan Prakash	B.Sc.II Biotech (Ent.)	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav
61	*	Korane Pratiksha Tanaji	B.Sc.II Biotech (Ent.)	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav
62	*	Wadkar Shreya Sunil	B.Sc.II Biotech (Ent.)	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav
63		Sharma Aaditya Navalkishor	B.Sc.II Biotech (Ent.)	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav
64	*	Namarata Dharmagonda Patil	B.Sc.II Biotech (Ent.)	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav
65	*	Shweta Tanaji Patil	B.Sc.II Biotech (Ent.)	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav
66	*	Aragu Rasika Ramesh	B.Sc.III Biotech (Ent.)	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav
67	*	PUJARI POONAM SUKHADEV	B.Sc.III Biotech (Ent.)	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav	Arav

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Notice

All the students of Add on Course on "VAD 1611 Instrumentation in life Sciences" are hereby informed that their final exam for theory and practical exam will be held on 09/05/2022.

The schedule for the Examination:

Sr No	Particulars	Time
1.	Theory	03:00 pm to 04:00 pm
2.	Practicals	04:00 pm to 05:00pm


Co ordinator

CO-ORDINATOR
ADD-ON COURSE
DEPARTMENT OF BIOTECHNOLOGY
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)




Head
Head

Department of Biotechnology (Entire)
Vivekanand College, Kolhapur (Autonomous)

VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR

18/40

DEPARTMENT OF BIOTECHNOLOGY**ADD ON COURSE: "VAD -1611 INSTRUMENTATION COURSE IN LIFE SCIENCES"****EXAM -THEORY AND PRACTICAL****Q1 choose the correct alternative and mark the Answer:****= 40 marks**

1. How does centrifugation work?
 - a) Through dripping particles
 - b) Through spinning
 - c) By keeping large particle in the center and smaller on the outside
 - d) By separating particles into different tubes
2. A primary objective of cell fractionation is _____.
 - a) to identify the enzymes outside the organelles.
 - b) to view the structure of cell membranes.
 - c) to separate the major organelles so their particular functions can be determined.
 - d) to determine the size of various organelles.
3. The electrodes used in pH measurement have which of the following internal resistances?
 - a) Very low resistance
 - b) Moderate resistance
 - c) Very high resistance
 - d) No resistance
4. _____ is used for mixing the chemically hazardous solutions in test tube.
 - a) Centrifuge
 - b) Vortex mixer
 - c) Magnetic stirrer
 - d) Microfuge
5. _____ is the instrument used for drawing out the exact amount of the solution such as acids, bases poisonous salts.
 - a) Hand Refractometer
 - b) Pipette
 - c) Auto pipettor
 - d) Micropipette
6. We can weigh any solids accurately by using _____.
 - a) Watch glass weighing balance
 - b) Digital Weighing Balance
 - c) Traditional balance
 - d) Manual balance

(25)

VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR

DEPARTMENT OF BIOTECHNOLOGY

ADD ON COURSE: "VAD -1611 INSTRUMENTATION COURSE IN LIFE SCIENCES"

Years-2020-2021

EXAM -THEORY AND PRACTICAL

R

= 40 marks

NAME S- NISHA SUBHASH BHOSALE.

Q1 choose the correct alternative and mark the Answer:

1. How does centrifugation work?

- (1) a) Through dripping particles
 b) Through spinning
c) By keeping large particle in the center and smaller on the outside
d) By separating particles into different tubes

2. A primary objective of cell fractionation is _____.

- X a) to identify the enzymes outside the organelles.
b) to view the structure of cell membranes.
c) to separate the major organelles so their particular functions can be determined.
d) to determine the size of various organelles.

3. The electrodes used in pH measurement have which of the following internal resistances?

- (1) a) Very low resistance
b) Moderate resistance
 c) Very high resistance
d) No resistance

4. _____ is used for mixing the chemically hazardous solutions in test tube.

- (1) a) Centrifuge
 b) Vortex mixer
c) Magnetic stirrer
d) Microfuge

5. _____ is the instrument used for drawing out the exact amount of the solution such as acids, bases poisonous salts.

- (1) a) Hand Refractometer
b) Pipette
 c) Auto pipettor
d) Micropipette

6. We can weigh any solids accurately by using _____.

- (1) a) Watch glass weighing balance
 b) Digital Weighing Balance
c) Traditional balance
d) Manual balance

B.Sc Biotechnology entire second year

Souabhi Dattatray Nalawade.

A.Y 2021-22

90/60

VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR

DEPARTMENT OF BIOTECHNOLOGY

ADD ON COURSE: "VAD -1611 INSTRUMENTATION COURSE IN LIFE SCIENCES"

EXAM -THEORY AND PRACTICAL

Q1 choose the correct alternative and mark the Answer:

= 40 marks

1. How does centrifugation work?

- a) Through dripping particles
- b) Through spinning
- c) By keeping large particle in the center and smaller on the outside
- d) By separating particles into different tubes

2. A primary objective of cell fractionation is _____ (b)

- a) to identify the enzymes outside the organelles.
- b) to view the structure of cell membranes.
- c) to separate the major organelles so their particular functions can be determined.
- d) to determine the size of various organelles.

3. The electrodes used in pH measurement have which of the following internal resistances?

- a) Very low resistance
- b) Moderate resistance
- c) Very high resistance
- d) No resistance

4. _____ (b) is used for mixing the chemically hazardous solutions in test tube.

- a) Centrifuge
- b) Vortex mixer
- c) Magnetic stirrer
- d) Microfuge

5. _____ (d) is the instrument used for drawing out the exact amount of the solution such as acids, bases poisonous salts.

- a) Hand Refractometer
- b) Pipette
- c) Auto pipettor
- d) Micropipette

6. We can weigh any solids accurately by using Digital weighing Balance.

- a) Watch glass weighing balance
- b) Digital Weighing Balance
- c) Traditional balance
- d) Manual balance

VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR

26/40

DEPARTMENT OF BIOTECHNOLOGYADD ON COURSE: "VAD - 1611 INSTRUMENTATION COURSE IN LIFE SCIENCES"EXAM - THEORY AND PRACTICAL

Q1 choose the correct alternative and mark the Answer:

= 40 marks

1. How does centrifugation work?
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 - c) Auto pipettor
 - d) Micropipette
6. We can weigh any solids accurately by using _____.
 - a) Watch glass weighing balance
 - b) Digital Weighing Balance
 - c) Traditional balance
 - d) Manual balance

Name : Sarika Uttam Kote (Bsc. Biotech entire I)

Academic year 2021-22

VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR

23/40

DEPARTMENT OF BIOTECHNOLOGY

ADD ON COURSE: "VAD -1611 INSTRUMENTATION COURSE IN LIFE SCIENCES"

EXAM -THEORY AND PRACTICAL

Q1 choose the correct alternative and mark the Answer:

= 40 marks

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 - d) Manual balance

VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR

DEPARTMENT OF BIOTECHNOLOGY Academic - 2021/22
year

ADD ON COURSE: "VAD -1611 INSTRUMENTATION COURSE IN LIFE SCIENCES"

EXAM -THEORY AND PRACTICAL

Q1 choose the correct alternative and mark the Answer:

= 40 marks

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VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR

DEPARTMENT OF BIOTECHNOLOGY

ADD ON COURSE: "VAD -1611 INSTRUMENTATION COURSE IN LIFE SCIENCES"

EXAM -THEORY AND PRACTICAL

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= 40 marks

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 - d) Manual balance

Name:- Shweta Tanaji Patil

Class:- BSc. Biotechnology Entrance

Academic Year:- 2021-22

II year

20/40

VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR

DEPARTMENT OF BIOTECHNOLOGY

ADD ON COURSE: "VAD -1611 INSTRUMENTATION COURSE IN LIFE SCIENCES"

EXAM -THEORY AND PRACTICAL

Q1 choose the correct alternative and mark the Answer:

= 40 marks

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VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR

28/40

DEPARTMENT OF BIOTECHNOLOGYADD ON COURSE: "VAD -1611 INSTRUMENTATION COURSE IN LIFE SCIENCES"EXAM -THEORY AND PRACTICAL

Q1 choose the correct alternative and mark the Answer:

= 40 marks

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 - c) Traditional balance
 - d) Manual balance

Gawade Chirmay

VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR

DEPARTMENT OF BIOTECHNOLOGY

14

ADD ON COURSE: "VAD -1611 INSTRUMENTATION COURSE IN LIFE SCIENCES"

EXAM -THEORY AND PRACTICAL 2021 -22.

Q1 choose the correct alternative and mark the Answer:

= 40 marks

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Shri Swami Vivekanand Shikshan Sanstha's
Vivekanand College, Kolhapur
Department of Biotechnology
Value Added Course
"Instrumentation Course in Life Sciences"
Practical Mark List

Sr. No.	Name of The Students	Class	Marks out of 50 Practical	Marks out of 50 Theory	Total out of 100
BATCH -A					
1	* Ghule Uma Sanjay	B.Sc. I Biotech (Ent.)	40	30	70
2	* Sawant Bramhali Vakil	B.Sc. I Biotech (Ent.)	30	24	54
3	* Bhoite Pranali Pratapsinh	B.Sc. III Biotech (Ent.)	30	35	65
4	* Rajguru Priyanka Dhanaji	B.Sc. III Biotech (Ent.)	42	25	67
5	Bedekar Pranav Anil	B.Sc. II Biotech (Ent.)	40	25	65
6	* Chavan Pratiksha Ananda	B.Sc. II Biotech (Ent.)	25	28	53
7	Ghorpade Pritam Ramesh	B.Sc. I Biotech (Ent.)	25	30	55
8	* Tahasildar Sanika Samrat	B.Sc. II Biotech (Ent.)	25	31	56
9	* Awalkar Anchal Nandkumar	B.Sc. II Biotech (Ent.)	32	35	67
10	* Kathare Sakshi Anil alias Atmaram	B.Sc. I Biotech (Ent.)	40	29	69
11	* Bhosale Nisha Subhash	B.Sc. I Biotech (Ent.)	20	29	49
12	* Shinde Sayali Yasheant	B.Sc. I Biotech (Ent.)	27	25	52
13	* Patil Mrunal Babaso	B.Sc. I Biotech (Ent.)	20	18	38
14	* Dhenge Janvi, Shirish	B.Sc. I Biotech (Ent.)	40	20	60
15	* Kole Sanika Uttam	B.Sc. I Biotech (Ent.)	28	28	56
16	* Vedpathak Aditi Atul	B.Sc. I Biotech (Ent.)	40	22	62
17	* Hajgude Sakshi Mukesh	B.Sc. I Biotech (Ent.)	28	26	54
18	* Patil Gayatri Bhaurao	B.Sc. I Biotech (Ent.)	20	23	43
19	* Patil Saloni Suhas	B.Sc. I Biotech (Ent.)	45	32	77
20	* Jagatap Pratikshi Baban	B.Sc. I Biotech (Ent.)	30	39	69
21	* Davkare Pooja Tatyaso	B.Sc. I Biotech (Ent.)	30	22	52
22	* Dixit Sakshi Prasip	B.Sc. I Biotech (Ent.)	30	33	63
23	Kadam Aniket Balasaheb	B.Sc. II Biotech (Ent.)	48	41	89
24	Chogule Vrashab Suresh	B.Sc. II Biotech (Ent.)	35	34	69
25	* Kulkarni Aarya Dhanajay	B.Sc. I Biotech (Ent.)	40	30	70
26	Mane Mohit Sunil	B.Sc. I Biotech (Ent.)	38	28	66
27	Kadam Suraj Santosh	B.Sc. I Biotech (Ent.)	42	30	72
28	Patil Pruthviraj Amar	B.Sc. I Biotech (Ent.)	20	31	51
29	* Potdar Arya Santosh	B.Sc. I Biotech (Ent.)	Ab	Ab	Ab
30	* Arab Jakiya AbdulMajid	B.Sc. II Biotech (Ent.)	30	23	53

BATCH -B

			Prac	Theory	Total
31	* Siddhnaik Radhika Bapu	B.Sc II Biotech (Ent.)	30	27	57
32	Shirke Harshwardhan Dattatraya	B.Sc II Biotech (Ent.)	30	37	67
33	* Kolekar Arya Ramchandra	B.Sc II Biotech (Ent.)	44	29	73
34	* Athanikar Sabira Nijam	B.Sc II Biotech (Ent.)	35	32	67
35	* Inamdar Varda Rahul	B.Sc II Biotech (Ent.)	35	24	59
36	* Deshpande Vaibhavi Harish	B.Sc II Biotech (Ent.)	25	28	53
37	Gawade Chinamay Vijay	B.Sc II Biotech (Ent.)	35	34	69
38	Shinde Swanand Arun	B.Sc II Biotech (Ent.)	34	31	65
39	* Patil Araya Vijay	B.Sc II Biotech (Ent.)	25	21	46
40	* Patil Vaishnavi Rajendra	B.Sc II Biotech (Ent.)	20	27	47
41	* Varute Ankita Ashwinkumar	B.Sc II Biotech (Ent.)	48	31	79
42	Nalawade Saurabh Dattatrya	B.Sc II Biotech (Ent.)	25	23	48
43	* Parakr Siddhi Sunil	B.Sc II Biotech (Ent.)	42	29	71
44	* Savardekar Vaishnavi Umesh	B.Sc II Biotech (Ent.)	30	36	66
45	* Kamble Ekata Hement	B.Sc II Biotech (Ent.)	30	43	73
46	* Patil Divya Suresh	B.Sc II Biotech (Ent.)	35	31	66
47	* Surve Maithili Vikrant	B.Sc II Biotech (Ent.)	48	36	84
48	* Kamble Vaishnavi Ashok	B.Sc III Biotech (Ent.)	40	37	77
49	* Chavn Mrunmayi Anil	B.Sc III Biotech (Ent.)	48	39	87
50	* Alave Aarya Rajendra	B.Sc II Biotech (Ent.)	25	38	63
51	* Patil Anjali Rajendta	B.Sc II Biotech (Ent.)	35	29	64
52	Shaikh Firas Dilawar	B.Sc II Biotech (Ent.)	40	28	68
53	* Kulkarni Gayatri Raghunath	B.Sc II Biotech (Ent.)	44	44 35	79
54	* Shah Medinee Prasanna	B.Sc II Biotech (Ent.)	38 45	35	83
55	* Palkar Sharavari Maniksen	B.Sc II Biotech (Ent.)	30	34	64
56	* Patil Rutuja Anandrao	B.Sc II Biotech (Ent.)	25	32	57
57	* Chougale Nikita Bharat	B.Sc II Biotech (Ent.)	20	25	45
58	* Mane Utkarsha Gajendra	B.Sc II Biotech (Ent.)	30	30	60
59	Patil Avdhut Mohan	B.Sc II Biotech (Ent.)	45	34	79
60	Chikhale Roshan Prakash	B.Sc II Biotech (Ent.)	40	35	75
61	* Korane Pratiksha Tanajui	B.Sc II Biotech (Ent.)	40	28	68
62	* Wadkar Shreya Sunil	B.Sc II Biotech (Ent.)	30	35	65
63	Sharma Aaditya Navalkishor	B.Sc II Biotech (Ent.)	37	32	69
64	* Namarata Dharmagonda Patil	B.Sc II Biotech (Ent.)	40	34	74
65	* Shweta Tanaji Patil	B.Sc II Biotech (Ent.)	32	27	59
66	* Aragu Rasika Ramesh	B.Sc III Biotech (Ent)	42	32	74
67	* Pujari Poonam Sukhadev	B.Sc III Biotech (Ent)	35	27	62


Co ordinator
 CO-ORDINATOR
 ADD-ON COURSE
 DEPARTMENT OF BIOTECHNOLOGY
 VIVEKANAND COLLEGE, KOLHAPUR
 (EMPLOYEES AUTONOMOUS)


Head
 Department of Biotechnology (Optional)
 Vivekanand College, Kolhapur (Autonomous)




Head
 Department of Biotechnology (Entire)
 Vivekanand College, Kolhapur (Autonomous)



"Education for Knowledge, Science and Culture"
Shikshanmaharshi Dr. Bapuji Salunkhe



Shri Swami Vivekanand Shikshan Sanstha's

VIVEKANAND COLLEGE, KOLHAPUR. (Autonomous)

NAAC Reaccredited : "A" (CGPA 3.24), College with Potential for Excellence by U.G.C., New Delhi
"Star College" by D.B.T. Govt. of India, ISO: 9001-2015

CERTIFICATE

This is to certify that Mr/Ms. _____ of B. Sc.

I/II/III _____ has passed the Value Added Course
"VAD -1611 Instrumentation Course in Life Science" in the Month of
March / April, year 2021 -2022. The said certificate has been issued to him / her after
qualifying the Add-On Course Exam in Theory and Practical at Department of
Biotechnology, Vivekanand College, Kolhapur (Autonomous).

The Testimonials, whereof, are at the seal of the college and the signatures of the
co-ordinator and the Principal of the said college.


Co-ordinator
ADD-ON COURSE
DEPARTMENT OF BIOTECHNOLOGY
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)




Principal