

Department of Biotechnology

Vivekanand College, Kolhapur

(Empowered Autonomous)

Date:-04/09/2024

To,

The Principal

Vivekanand College, Kolhapur

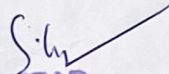
Subject: Regarding the commencement of Value Added Course for the year 2024-25

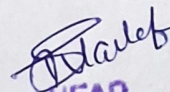
Respected Sir,

The Add- On Course of Department of Biotechnology "VAD- 1611-Instrumentation Course in Life Sciences" as approved by academic council is to commence for the 1st Session of the Academic year 2024-2025. It is requested to allow us to start the value added course for this year in two batches A and B.

Thanking You,

Yours Faithfully


HEAD
DEPARTMENT OF BIOTECHNOLOGY (ENTIRE)
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)


HEAD
DEPARTMENT OF BIOTECHNOLOGY (OPTIONAL)
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)


Mr A. L. Upadhye

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

Allowed
PR
4.9.24



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, Colorimeter,

Unit II

Instruments for Biochemistry: Principle, working & application

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, Blotting

Unit V

Instruments for Plant Tissue Culture: Principle, working & application

Hot Plate, Laminar Air Flow, Rotatory Shaker, Cell Counter, Ph Meter, Culture Room, Preparation of Explant, Micropagation.

Vivekanand College, Kolhapur
Department of Biotechnology
Add On Course
"Instrumentation course in Life Sciences"
Registered Students

Sr No	Name	Date of Registration	Fees in Rs	Remark
1	Aarya Vijay Patil	10-03-2025	500/-	
2	Abhinandan Babaso Patil	10-02-2025	500/-	
3	Aditi Prakash Patil	08-02-2025	500/-	
4	Alfiya Jafarsadi Attar	13-02-2025	500/-	
5	Anshu Shivaji Kurane	22-02-2025	500/-	
6	Aryan Raju Birajdar	21-04-2025	500/-	
7	Atharv Ramesh Sangrue	13-02-2025	500/-	
8	Bhagyashri Mahendra Vedpathak	17-04-2025	500/-	
9	Bhakti Kishor Gonugade	17-04-2025	500/-	
10	BIRADAR VAISHNAVI MADHUKAR	19-04-2025	500/-	
11	Chaitrali Yuvraj Patil	10-02-2025	500/-	
12	Darshan Subhash Chougule	19-03-2025	500/-	
13	Dhanshri Narendra Ranjane	21-04-2025	500/-	
14	Gayatri Ashok Khot	15-02-2025	500/-	
15	Harshdeep Suhas Salokhe	10-03-2025	500/-	
16	Ishwar Irranna Mali	19-04-2025	500/-	
17	JADHAV RAJNANDINI PRAKASH	10-03-2025	500/-	
18	Jiya Javed Nalband	17-04-2025	500/-	
19	Ketan Avinash Patil	10-03-2025	500/-	
20	Kiran Balkrushna Tashildar	20-04-2025	500/-	
21	Kunal Vishal Shinde	21-04-2025	500/-	
22	Madalasa Rukmangat Kumbhar	22-02-2025	500/-	
23	Madhura Dattatray Dhavale	08-02-2025	500/-	
24	Madhurima Vijay Patil	07-03-2025	500/-	
25	Mansi Bajarang Koravi	10-03-2025	500/-	
26	Mayuri Madhukar Shinde	15-04-2025	500/-	
27	Mrunal Sandeep Chavan	07-03-2025	500/-	
28	Nayana Nitin Bidre	17-04-2025	500/-	
29	Neha Laxman Patil	15-04-2025	500/-	
30	Nelson Shimao Dsouza	10-02-2025	500/-	
31	Poonam Prakash Nalawade	17-04-2025	500/-	
32	Pradnya Lalaso Rasal	14-02-2025	500/-	
33	Prajwal Mohan Jadhav	11-03-2025	500/-	
34	Prajwal Ravindra Kale	10-02-2025	500/-	
35	Pranav Subhash Patil	10-02-2025	500/-	
36	Pranav Suresh Alase	09-02-2025	500/-	
37	Praneetha Rajaram Chougale	10-02-2025	500/-	
38	PRATHAMESH CHANDRASHEKHAR swami	08-02-2025	500/-	
39	Pratiksha Vasant Jadhav	10-02-2025	500/-	
40	Prerana Shivaji Disale	21-04-2025	500/-	
41	Rasika Dhanaji Patil	14-02-2025	500/-	
42	Ritesh Kanjeet Patil	10-02-2025	500/-	
43	Rucha Radhesh Kulkarni	05-03-2025	500/-	
44	Sadaf Sameer Mulla	25-02-2025	500/-	
45	Sai Raghunath Patil	08-02-2025	500/-	
46	Samiksha Shital Kothale	17-04-2025	500/-	
47	Samiksha Vilas Chavan	05-03-2025	500/-	
48	Sanika Tanaji Methe	25-02-2025	500/-	
49	Shivanand Bhimrav Patil	08-02-2025	500/-	
50	Shraddha Surendra Sankpal	05-03-2025	500/-	
51	Shravani Arun Ekshinge	07-03-2025	500/-	
52	Shravani Suresh Gawade	10-03-2025	500/-	
53	Shreesha Pravin Gaud	20-04-2025	500/-	
54	Shreya Eknath Gurav	20-04-2025	500/-	
55	Shreya Rohit Kurane	10-03-2025	500/-	
56	Sidhika Sachin Chougule	08-02-2025	500/-	
57	Soham Sunil Desai	08-02-2025	500/-	
58	Sourabh Sunil Mane	20-04-2025	500/-	
59	Srishti Sachin Patil	21-04-2025	500/-	
60	Swara Shivaji Chavan	08-02-2025	500/-	
61	Tanishka Manoj Ghorpade	10-03-2025	500/-	

Kolhapur

Moin P. Shukla

Neha P. Kolpe

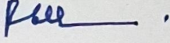
Sanika P. Badi

62	Tanvi Kiran Nalang	18-04-2025	500/-	
63	Usha Mallappa Kumbhar	21-04-2025	500/-	
64	Vaidehi Arun Patole	20-04-2025	500/-	
65	Vaishnavi Pradip Suryawanshi	07-03-2025	500/-	
66	Vaishnavi Ramchandra Patil	15-04-2025	500/-	
67	Viraj Uttam Talawar	10-02-2025	500/-	
68	Yogini Ananda Chougale	13-02-2025	500/-	

Co Ordinator

Principal


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


PRINCIPAL
VEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)

Vivekanand College, Kolhapur

Department of Biotechnology

Add On Course

"Instrumentation course in Life Sciences"

Practical Exam Marks out of 20

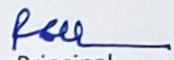
Sr. No	Student Name	Class	Marks	Entered Date	Remark	Sign
1	Aarya Vijay Patil	Bsc 1 biotech entire	16	21-04-2025	Pass	
2	Abhinandan Babaso Patil	2 nd year Biotechnology (optional)	18	21-04-2025	Pass	
3	Aditi Prakash Patil	BSc.I biotechnology optional	17	21-04-2025	Pass	
4	Alfiya Jafarsadik Attar	BSc FY Biotechnonology Entire	18	21-04-2025	Pass	
5	Anshu Shivaji Kurane	Bsc 1st year Biotechnology optional	17	21-04-2025	Pass	
6	Aryan Raju Birajdar	2nd	19	21-04-2025	Pass	
7	Atharv Ramesh Sangrute	BSC 2nd	19	21-04-2025	Pass	
8	Bhagyashri Mahendra Vedpathak	2nd	16	21-04-2025	Pass	
9	Bhakti Kishor Gonugade	Bsc biotechnology entire (TY)	19	21-04-2025	Pass	
10	Chaitrali Yuvraj Patil	B.Sc.I Biotechnology Optional	38	21-04-2025	Pass	
11	Darshan Subhash Chougule	BSC I BIOTECHNOLOGY (Entire)	14	21-04-2025	Pass	
12	Dhanshri Narendra Ranjane	3rd	15	21-04-2025	Pass	
13	Gayatri Ashok Khot	2nd	18	21-04-2025	Pass	
14	Harshdeep Suhas Salokhe	3rd	17	21-04-2025	Pass	
15	Ishwar Iranna Mali	BSC I Biotechnology (Entire)	14	21-04-2025	Pass	
16	JADHAV RAJNANDINI PRAKASH		13	21-04-2025	Pass	
17	Jiya Javed Nalband	1st	20	21-04-2025	Pass	
18	Ketan Avinash Patil	3dr	17	21-04-2025	Pass	
19	Kiran Balkrushna Tashildar	3rd year	19	21-04-2025	Pass	
20	KUMBHAR RUTUJA SURESH		17	21-04-2025	Pass	
21	Kunal Vishal Shinde	Bsc 2nd	18	21-04-2025	Pass	
22	Madalasa Rukmangat Kumbhar	BSc 1st year biotechnology optional	20	21-04-2025	Pass	
23	Madhura Dattatray Dhavale	Bsc 1st biotechnology entire	19	21-04-2025	Pass	
24	Madhurima Vijay Patil	BSc.1st Biotechnology Optional	18	21-04-2025	Pass	
25	Mansi Bajarang Koravi	3rd year	20	21-04-2025	Pass	
26	Mayuri Madhukar Shinde	3 rd year	19	21-04-2025	Pass	
27	Moin Riyaj Shaikh	bcs 2y	20	21-04-2025	Pass	
28	Mrunal Sandeep Chavan	1st	16	21-04-2025	Pass	

29	Nayana Nitin Bidre	1st	14	21-04-2025	Pass	
30	Neha Bhausaheb Kolpe	bsc1 biote (optional)	08	21-04-2025	Fail	Pass.
31	Neha Laxman Patil	3rd yr	20	21-04-2025	Pass	
32	Nelson Shimao Dsouza	Bsc1 biotechnology entire	16	21-04-2025	Pass	
33	Poonam Prakash Nalawade	Bsc 1 Biotechnology Entire	18	21-04-2025	Pass	
34	Pradnya Lalaso Rasal	bsc1 biote (optional)	19	21-04-2025	Pass	
35	Prajwal Mohan Jadhav	2nd	16	21-04-2025	Pass	
36	Prajwal Ravindra Kale	Bsc1 Biotechnology Entire	19	21-04-2025	Pass	
37	Pranav Subhash Patil	Bsc.BiotechEntire FY	20	21-04-2025	Pass	
38	Pranav Suresh Alase	biotech (Ent)1st year	18	21-04-2025	Pass	
39	Praneetha Rajaram Chougale	BSc 1st BiotechnologyEntire	18	21-04-2025	Pass	
40	Prathamesh Chandrashekhar Swami	Bsc I Biotechnology Entire	19	21-04-2025	Pass	
41	Prerana Shivaji Disale	14th	18	21-04-2025	Pass	
42	Rasika Dhanaji Patil	BSc FY Biotechnology Entire	17	21-04-2025	Pass	
43	Ritesh Ranjeet Patil	B.Sc Biotechnology Entir	13	21-04-2025	Pass	
44	Rucha Radhesh Kulkarni	B.Sc biotechnology (ent)2	17	21-04-2025	Pass	
45	Sadaf Sameer Mulla	BSc 1 biotechnonlogy Optional	19	21-04-2025	Pass	
46	Sai Raghunath Patil	BSc 1 Biotechnology Entire	19	21-04-2025	Pass	
47	Samiksha Shital Kothale	3rd year	13	21-04-2025	Pass	
48	Samiksha Vilas Chavan	2nd	19	21-04-2025	Pass	
49	Sanika Tanaji Methe	Bsc 1st year Biotechnology (optional)	08	21-04-2025	Fail	Pass.
50	Shivanand Bhimrav Patil	BSc-I Biotechnology Entire	16	21-04-2025	Pass	
51	Shraddha Surendra Sankpal	B.Sc Biotechnology (entire) 2	14	21-04-2025	Pass	
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54	Shreesha Pravin Gaud	bsc biotechnology (entire) fy	18	21-04-2025	Pass	
55	Shreya Eknath Gurav	2nd	14	21-04-2025	Pass	
56	Shreya Rohit Kurane	bsc 1 biotechnology entire	36	21-04-2025	Pass	
57	Sidhika Sachin Chougule	Bsc 1st biotechnology (Optional)	14	21-04-2025	Pass	
58	Soham Sunil Desai	Bsc I Biotechnology	16	21-04-2025	Pass	
59	Sourabh Sunil Mane	1st	19	21-04-2025	Pass	
60	Srishti Sachin Patil	1st	16	21-04-2025	Pass	
61	Swara Shivaji Chavan	Bsc 2 Biotechnology optional	19	21-04-2025	Pass	
62	Tanishka Manoj Ghorpade	2nd	18	21-04-2025	Pass	

Pradnya Lalaso Rasal - Not in Exam
Sanika Tanaji Methe - Fail

63	Tanvi Kiran Nalang	2nd	18	21-04-2025	Pass	
64	Usha Mallappa Kumbhar	1st	14	21-04-2025	Pass	
65	Vaidehi Arun Patole	BSC.fy	19	21-04-2025	Pass	
66	Vaishnavi Ramchandra Patil	B.Sc.1st Biotechnology Entire	16	21-04-2025	Pass	
67	Vaishnavi Pradip Suryawanshi	1st year	16	21-04-2025	Pass	
68	Viraj Uttam Talawar	Bdc -1Biotechnology [Entire]	20	21-04-2025	Pass	
69	Yogini Ananda Chougale	B.Sc 1st Biotechnology entire	19	21-04-2025	Pass	


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


 Principal
PRINCIPAL
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)

Vivekanand College, Kolhapur
Department of Biotechnology
Add On Course
"Instrumentation course in Life Sciences"
Theory Exam Marks Out of 30

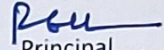
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3	Aditi Prakash Patil ✓	Bsc.I biotechnology optional	22	21-04-2025	Pass	
4	Alfiya Jafarsadik Attar ✓	BSc FY Biotechnonology Entire	27	21-04-2025	Pass	
5	Anshu Shivaji Kurane ✓	Bsc 1st year Biotechnology optional	26	21-04-2025	Pass	
6	Aryan Raju Birajdar ✓	2nd	22	21-04-2025	Pass	
7	Atharv Ramesh Sangrule ✓	BSC 2nd	26	21-04-2025	Pass	
8	Bhagyashri Mahendra Vedpathak ✓	2nd	24	21-04-2025	Pass	
9	Bhakti Kishor Gonugade ✓	Bsc biotechnology entire (TY)	28	21-04-2025	Pass	
10	BIRADAR VAISHNAVI MADHUKAR		29	21-04-2025	Pass	
11	Chaitrali Yuvraj Patil ✓	B.Sc.I Biotechnology Optional	25	21-04-2025	Pass	
12	Darshan Subhash Chougule ✓	BSC I BIOTECHNOLOGY (Entire)	22	21-04-2025	Pass	
13	Dhanshri Narendra Ranjane ✓	3rd	22	21-04-2025	Pass	
14	Gayatri Ashok Khot ✓	2nd	25	21-04-2025	Pass	
15	Harshdeep Suhas Salokhe ✓	3rd	26	21-04-2025	Pass	
16	Ishwar Irranna Mali ✓	BSC I Biotechnology (Entire)	22	21-04-2025	Pass	
17	JADHAV RAJNANDINI PRAKASH ✓		22	21-04-2025	Pass	
18	Jiya Javed Nalband ✓	1st	25	21-04-2025	Pass	
19	Ketan Avinash Patil ✓	3dr	26	21-04-2025	Pass	
20	Kiran Balkrushna Tashildar ✓	3rd year	30	21-04-2025	Pass	
21	KUMBHAR RUTUJA SURESH		21	21-04-2025	Pass	
22	Kunal Vishal Shinde ✓	Bsc 2nd	22	21-04-2025	Pass	
23	Madalasa Rukmangat Kumbhar ✓	BSc 1st year biotechnology optional	28	21-04-2025	Pass	
24	Madhura Dattatray Dhavale ✓	Bsc 1st biotechnology entire	25	21-04-2025	Pass	
25	Madhurima Vijay Patil ✓	BSc.1st Biotechnology Optional	27	21-04-2025	Pass	
26	Mansi Bajarang Koravi ✓	3rd year	23	21-04-2025	Pass	
27	Mayuri Madhukar Shinde ✓	3 rd year	25	21-04-2025	Pass	

28	Moin Riyaj Shaikh ✓	bcs 2y	29	21-04-2025	Pass	
29	Mrunal Sandeep Chavan ✓	1st	26	21-04-2025	Pass	
30	Nayana Nitin Bidre ✓	1st	26	21-04-2025	Pass	
31	Neha Bhausahab Kolpe ✓	bsc1 biote (optional)	12	21-04-2025	Fail	Pass
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34	Poonam Prakash Nalawade ✓	Bsc 1 Biotechnology Entire	20	21-04-2025	Pass	
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56	Shreesha Pravin Gaud ✓	bsc biotechnology (entire) fy	26	21-04-2025	Pass	
57	Shreya Eknath Gurav ✓	2nd	21	21-04-2025	Pass	
58	Shreya Rohit Kurane ✓	bsc 1 biotechnology entire	30	21-04-2025	Pass	
59	Sidhika Sachin Chougule ✓	Bsc 1st biotechnology (Optional)	25	21-04-2025	Pass	
60	Soham Sunil Desai ✓	Bsc I Biotechnology	25	21-04-2025	Pass	
61	Sourabh Sunil Mane ✓	1st	26	21-04-2025	Pass	

Passing in 1st year Jadhav - 1st year HOD given x

62	Srishti Sachin Patil ✓	1st	26	21-04-2025	Pass	
63	Swara Shivaji Chavan ✓	Bsc 2 Biotechnology optional	26	21-04-2025	Pass	
64	Tanishka Manoj Ghorpade ✓	2nd	28	21-04-2025	Pass	
65	Tanvi Kiran Nalang ✓	2nd	27	21-04-2025	Pass	
66	Usha Mallappa Kumbhar ✓	1st	20	21-04-2025	Pass	
67	Vaidehi Arun Patole ✓	BSC.fy	25	21-04-2025	Pass	
68	Vaishnavi Ramchandra Patil ✓	B.Sc.1st Biotechnology Entire	24	21-04-2025	Pass	
69	Vaishnavi Pradip Suryawanshi ✓	1st year	81	21-04-2025	Pass	
70	Viraj Uttam Talawar ✓	Bdc -1Biotechnology [Enti.e]	28	21-04-2025	Pass	
71	Yogini Ananda Chougale ✓	B.Sc 1st Biotechnology entire	26	21-04-2025	Pass	


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 Principal
PRINCIPAL
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)

VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR

DEPARTMENT OF BIOTECHNOLOGY

Teaching Plan for Add on Course - **"VAD -1611 INSTRUMENTATION COURSE IN LIFE SCIENCES"**

Sr No.	Particular of Syllabus	Work Load Lectures
1	Unit I: General instruments: Principle, working & application	12
2	Unit II: Instruments for Biochemistry: Principle, working & application	12
3	Unit III: Instruments for Microbiology: Principle, working & application	12
4	Unit IV: Instruments for Molecular Biology: Principle, working & application	12
5	Unit V : Instruments for Plant Tissue Culture: Principle, working & application	12
	Total	60

Practical Syllabus for "VAD -1611 INSTRUMENTATION COURSE IN LIFE SCIENCES"		
Sr.No.	Name of the Practical	Practical (20)
1	Demonstration of Dialysis	1
2	Demonstration of Chromatography(Ion Exchange and Gel Filtration)	2
3	Demonstration of Chromatography(TLC and Paper)	2
4	Demonstration of COD Reflux	1
5	Demonstration of PCR (Thermo cycler)	1
6	Demonstration of Laminar Air Flow	1
7	Determination of Standard Plate Count	1
8	Demonstration of Replica Plate Technique	1
9	Micrometry (Determination of Size of Microscopic Objects)	1
10	Demonstration of Visualization and estimation of DNA (Gel electrophoresis, Gel Documentation, U.V Transilluminator)	4
11	Demonstration of Plant Tissue Culture technique (aseptic inoculation)	1
12	Demonstration of Plant Tissue Culture technique (Surface sterilization)	1
13	Demonstration of all general instrumentation in Life Sciences	1
14	Demonstration of Liquid N ₂ Homogenization	1
15	Demonstration of Digital Autoclave	1
	Total	20

VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR

DEPARTMENT OF BIOTECHNOLOGY

Teaching Faculty for

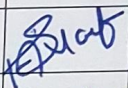
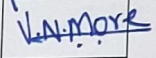
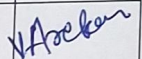
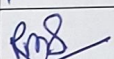
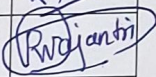
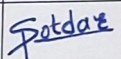
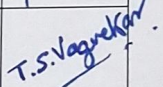
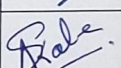
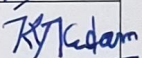
"VAD -1611 INSTRUMENTATION COURSE IN LIFE SCIENCES"

Sr No.	Name	Post
1	Mr. A. L. Upadhye	Co-ordinator
2	Mr. S.G.Kulkarni	Staff
3	Dr. S.B. Mulla	Staff
4	Ms. V.N. More	Staff
5	Ms. V.N. Arekar	Staff
6	Ms. R.M. Shetty	Staff
7	Ms. D.A. Wajantri	Staff
8	Ms. S.D. Potdar	Staff
9	Ms. T.S. Vagvekar	Staff
10	Ms. A.S. Kale	Staff
11	Ms. K.A. kadam	Staff

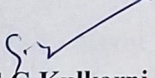

Mr. A.L. Upadhye
CO-ORDINATOR
ADD-ON COURSE
DEPARTMENT OF BIOTECHNOLOGY
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)

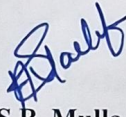
VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR
DEPARTMENT OF BIOTECHNOLOGY
"VAD -1611 INSTRUMENTATION COURSE IN LIFE SCIENCES"

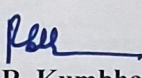
RENUMERATION CHART

Sr No.	Name	Renumeration Lecture /Practical (in Rs)	Total Renumeration (in Rs)	Signature
1	Dr R.R.Kumbhar (Principal)	2000	2000	
2	Mr. A.L. Upadhye (Coordinator)	2000	2000	
		Lecture 5 x 300 =1500	2,100	
		Practical 1 x 600 =600		
3	Mr. S.G.Kulkarni	Lecture 5 x 300 =1500	2,100	
		Practical 1 x 600 =600		
4	Dr. S.B. Mulla	Lecture 5 x 300 =1500	2,700	
		Practical 2 x 600 =1200		
5	Ms. V.N. More	Lecture 5 x 300 =1500	2,700	
		Practical 2 x 600 =1200		
6	Ms. V.N. Arekar	Lecture 5 x 300 =1500	2,700	
		Practical 2 x 600 =1200		
7	Ms. R.M. Shetty	Lecture 5 x 300 =1500	2,700	
		Practical 2 x 600 =1200		
8	Ms. D.A. Wajantri	Lecture 6 x 300 =1800	3,000	
		Practical 2 x 600 =1200		
9	Ms. S.D. Potdar	Lecture 6 x 300 =1800	3,000	
		Practical 2 x 600 =1200		
10	Ms. T.S. Vagvekar	Lecture 6 x 300 =1800	3,000	
		Practical 2 x 600 =1200		
11	Ms. A.S. Kale	Lecture 6 x 300 =1800	3,000	
		Practical 2 x 600 =1200		
12	Ms. K.A. kadam	Lecture 6 x 300 =1800	3,000	
		Practical 2 x 600 =1200		
11	Certificates Expenses	100x20	2000	
GRAND TOTAL			36,000	

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

 **Mr. S.G. Kulkarni**
HEAD
DEPARTMENT OF BIOTECHNOLOGY (AUTONOMOUS)

 **Dr. S.B. Mulla**
HEAD
DEPARTMENT OF BIOTECHNOLOGY (EMPOWERED AUTONOMOUS)
VIVEKANAND COLLEGE, KOLHAPUR

 **Dr R.R. Kumbhar**
PRINCIPAL
VIVEKANAND COLLEGE, KOLHAPUR