D. P. Bhosale College, Koregaon

Department of Microbiology (2021-2022)

Notice

Date: 15 /02/2022

All the student of B.Sc. III (Microbiology) are the here by informed that Department of Microbiology going to organize Short term Course on "Microbial quality control in industries". From 21st Feb, 2022 for 6 Months.

Presence of the students of B. Sc. III is compulsory.

DEPARTMENT OF MICROBIOLOGY
D.P. BHOSAL FIGURE GE, KOREGAON
Department of Microbiology

OGALE CONTEGE OF TOREGAD

Principal, D.P. Bhosale College, Koregaon

D.P.Bhosale College, Koregaon

Department of Microbiology

Short term course

MICROBIAL QUALITY CONTROL IN INDUSTRIES

BSC III

Year: 2021-22

Report

The Department of Microbiology organized Short term course on "MICROBIAL QUALITY CONTROL IN INDUSTRIES". The short term course was organized with prime objective to education that a student has acquired in his graduate studies is not enough to meet the demands when he/she is working in a responsible position in a pharmaceutical or in microbial industry The short term course in Microbial quality control in industries offered by the Microbiology Department has specially designed to cater the requirements of such students. The syllabus has be designed which will satisfies the demand position in a pharmaceutical or in microbial industry. To prepare graduate students (B.Sc.) with in depth knowledge and skill for professional careers in microbiology the syllabus includes theory lectures and practical.

We have completed short term course syllabus in 10 lectures, 6 practical and 2 guest lecturers were organized. There was 100% presenty for all lecture and praticals. Online guest lecture was organised, in two sessions. The guests invited were professors from Yashavantrao Chavan Institute of Science, Satara.

Session I

During the first session of the workshop Mr. J. R. Yadav, Associate Professor,
Department of Microbiology and Biochemistry, YCIS, Satara, delivered his speech on "
Quality control and assurance- SOP, GLP and GMP. He focused on the how to maintain quality control protocol in pharmaceutical industries and he also explained good laboratory practises. Prof. S. R. Inje was session In-charge.

Session II

Session II of lecture was started at 12:00pm. Mrs. Manisha Shinde, Assistant Professor, Department of Microbiology and Biochemistry, YCIS, Satara. And she delivered lecture on, "Pharmacopeia". She explained what pharmacopeia is and what need of pharmacopeia in during manufacturing for medicines. Prof. S. R. Inje was session In-charge.

The department could organise this short term course successfully with the kind cooperation and guidance of Principal. Dr. V. S. Sawant Vice Principal Dr. S. D. Jadhav Prof. and coordinator Dr. S. P. Nalawade.

To conclude the short term course turned out to be rich experience for students raising their confidence to precede their career in industries as microbiologist.

Learning Outcomes-

After performing the practical course students will be able to -

- Evaluate the microbiological analysis of environment in industries.
- Comprehend the concept of SOP, GMP and GLP in industries.
- Practically perform antimicrobial testing.

Data -

Sr.No.	Course Conducted by Faculty	Visiting Faculty
1.	Miss. S. R. Inje	Mr. J. R. Yadav
2.	Miss. S. A. Kshirsagar	Mrs. Manisha Shinde
3.	Miss. R. M. Nadaf	

	Faculty Lectures	Guest Lectures	Practical	Number of Beneficiary
	10	2	6	15 Students
Presenty of Students	15	15	15	Total No. of Beneficiary: 270

HEAD
DEPARTMENT OF MICROBIOLOGY
D.P. BHOSALE COLLEGE, KOREGAON

Department of Microbiology

D.P.Bhosale College, Koregaon

Department of Microbiology

Short term course

MICROBIAL QUALITY CONTROL IN INDUSTRIES

BSC III

Year: 2021-22





Invitation and Appreciation to Guest Lecturers

D.P.Bhosale College, Koregaon

Department of Microbiology

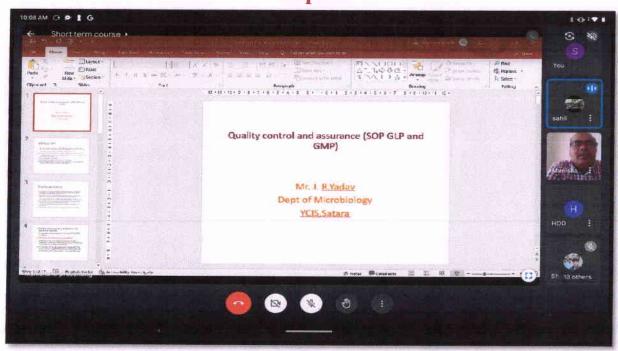
Short term course

MICROBIAL QUALITY CONTROL IN INDUSTRIES

BSC III

Year: 2021-22

Report



Guest Lecture: - Mr. J. R. Yadav, Associate Professor, Department of Microbiology and Biochemistry, YCIS, Satara, delivered his speech on Quality control and assurance-SOP, GLP and GMP

D.P.Bhosale College, Koregaon

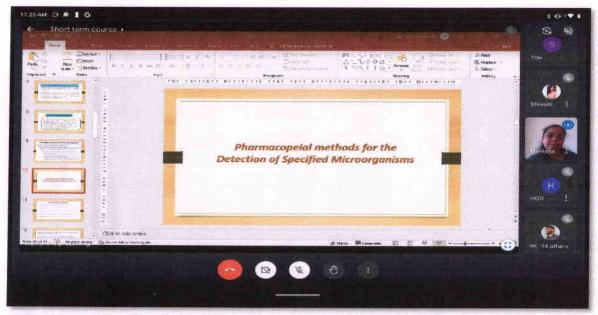
Department of Microbiology

Short term course

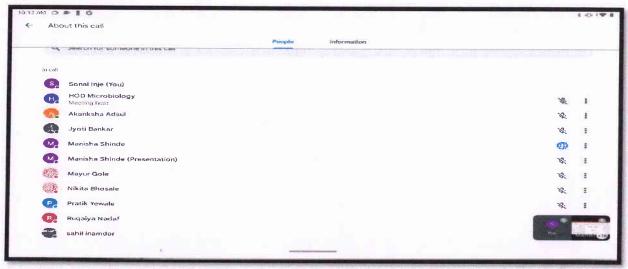
MICROBIAL QUALITY CONTROL IN INDUSTRIES

BSC III

Year: 2021-22



Guest Lecture: - Mrs. Manisha Shinde, Assistant Professor, Department of Microbiology and Biochemistry, YCIS, Satara. And she delivered lecture on, "Pharmacopeia".



Online lecture Student Present

D. P. Bhosale College, Koregaon

Tal. Koregaon Dist. Satara MS India- 415 501
Re-accredited by NAAC with 'A' Grade (CGPA 3.12)

Certificate of Participation

This is to certify that Mr./Mrs./Miss. ______ of B.Sc.-III (Microbiology) has successfully completed the short term course entitled "Microbial Quality Control In Industries" during academic year 2021-2022.

Coordinator Dept. of Microbiology

Department of Microbiology

D. P. Bhosale College, Koregaon

D.P.Bhosale College, Koregaon

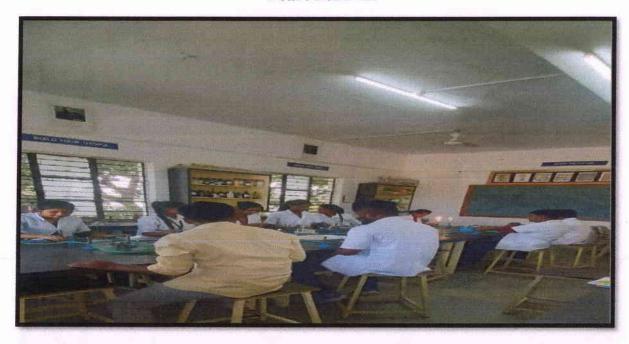
Department of Microbiology

Short term course

MICROBIAL QUALITY CONTROL IN INDUSTRIES

BSC III

Year: 2021-22





Students Performing Short Term Course Practical

D.P.Bhosale College, Koregaon

Department of Microbiology

Short term course

MICROBIAL QUALITY CONTROL IN INDUSTRIES

BSC III

Year: 2021-22





Short Term Course Food Industries Visit—BVG Food Mega Mart- Quality control and assurance- SOP, GLP and GMP

DEPARTMENT OF MICROBIOLOGY D.P. BHOSALE COREGAON

Department of Microbiology

"Education through self-help is our motto" – Karmaveer Rayat Shikshan Sanstha's,

Estd: 1968

D.P. Bhosale College, Koregaon

Tal. Koregaon, Dist.- Satara, 415 501, Maharashtra (India)

☎ (02163) 220219 Email- dpbckoregaon@gmail.com Website - www.dpbck.in

Arts, Commerce, Science, BCA, B.Voc. (Sust. Agri.)

NAAC Reaccredited: 'A' Grade with CGPA 3.12

ISO 9001: 2015 Certified

Affiliated: Shivaji University, Kolhapur * Uni. Affil. No. UKF/7569/11529-y * Jr. C

* Jr. College Index No. J21.05.001

Principal, Dr. Vijaysinh S. Sawant M.Sc. Ph.D.

Ref. No.:

Date: 4 / 7 /2022

To,

Mr. Jaywantrao Yadav Associate Professor Dept of Microbiology YCIS, Satara

Subject: - Invitation for Short term course lecture, "Microbial Quality Control in Industries".

Respected Sir,

It gives us as immense pleasure to inform you that the Department of Microbiology has organized Short term course, "Microbial Quality Control in Industries". We are glad to cordially invite you to be our guest lecturer. We will be honored if consider granting us your presence.

We are looking forward to having your company.

Thanking You.

Yours faithfully,

Principal,

D.P. Bhosale College, Koregaon

Tal - Koregaon, Dist. -Satara

Contact:

HEAD

DEPARTMENT OF MICROBIOLOGY

Miss. S.R. Inje

Head,

Department of Microbiology

"Education through self-help is our motto" – Karmaveer Rayat Shikshan Sanstha's,

Estd: 1968

D.P. Bhosale College, Koregaon

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Principal, Dr. Vijaysinh S. Sawant M.Sc. Ph.D.

Ref. No.:

Date: 06 / 07/2022

To,

Mr. Jaywantrao Yadav Associate Professor Dept of Microbiology YCIS, Satara

Subject: Appreciation Letter.

Respected Sir,

We would like to express our sincere gratitude towards you. Your lecture on, "Microbial Quality Control in Industries", showed the directions to students to select the best carrier option in Industries as a Microbiologist. The feedback received from the students was enthusiastic.

We look forward with same kind of cooperation from you in future also.

Thank you.

Yours faithfully,

Principal

D.P. Bhosale College, Koregaon

Fal - Koregaon, Dist. -Satara

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HEAD
DEPARTMENT OF MICROBIOLOGY
D.P EHOSALF COLLEGE, KORLGAON

"Education through self-help is our motto" – Karmaveer Rayat Shikshan Sanstha's,

Estd: 1968



D.P. Bhosale College, Koregaon

Tal. Koregaon, Dist.- Satara, 415 501, Maharashtra (India)

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* Jr. College Index No. J21.05.001

Principal, Dr. Vijaysinh S. Sawant M.Sc. Ph.D.

Ref. No.:

Date: 04/07/20 22

To, Mrs. Manisha Shinde Assistant Professor Yashavantrao Chavan Institute of Science, Satara

Subject: - Invitation for Short term course lecture, "Microbial Quality Control in Industries".

Respected Madam,

It gives us as immense pleasure to inform you that the Department of Microbiology has organized Short term course, "Microbial Quality Control in Industries". We are glad to cordially invite you to be our guest lecturer. We will be honored if consider granting us your presence.

We are looking forward to having your company.

Thanking You.

Yours faithfully,

Principal,

P. Bhosale College, Koregaon

Tal - Koregaon, Dist. -Satara

Contact:

HEAD

DEPARTMENT OF MICROBIOLOGY D.P. BITOSALE COLLEGE, KOREGAON

Miss. S.R. Inje

Head,

Department of Microbiology

"Education through self-help is our motto" - Karmaveer Rayat Shikshan Sanstha's,

Estd: 1968

D.P. Bhosale College, Koregaon

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* Jr. College Index No. J21.05.001

Date: 6 / 7 /20 2 2

Principal, Dr. Vijaysinh S. Sawant M.Sc. Ph.D.

Ref. No.:

To, Mrs. Manisha Shinde Assistant Professor

Yashavantrao Chavan Institute of Science, Satara

Subject: Appreciation Letter.

Respected Madam,

We would like to express our sincere gratitude towards you. Your lecture on, "Microbial Quality Control in Industries", showed the directions to students to select the best carrier option in Industries as a Microbiologist. The feedback received from the students was enthusiastic.

We look forward with same kind of cooperation from you in future also.

Thank you.

Yours faithfully,

Principal,

Bhosale College, Koregaon

- Koregaon, Dist. -Satara

DEPARTMENT OF MICROBIOLOGY D.P. RHOSALE COLLEGE, KOREGAON

D.P.Bhosale College, Koregaon

Department of Microbiology

Short term course

MICROBIAL QUALITY CONTROL IN INDUSTRIES

BSC III

Year: 2021-22

Time Table

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
2.50 pm -	B.Sc III	B.Sc III	B.Sc III	B.Sc III	B.Sc III	B.Sc III
5.00pm	Lectures	Lectures	Practical	Practical	Practical	Practical
	SRI	SRI	SRI	SRI	SRI	SRI
	RMN	SAK	RMN SAK	RMN SAK	RMN SAK	RMN SAK

SRI: Miss. S R Inje
RMN: R M Nadaf
SAK: Miss. S A Kshirsagar

DEPARTMENT OF MICROBIOLOGY D.E. RHOSALE COLLEGE, KOREGAON

H.O.D Department of Microbiology

D.P.Bhosale College, Koregaon

Department of Microbiology

Short term course

MICROBIAL QUALITY CONTROL IN INDUSTRIES

BSC III

Year: 2021-22

Faculty Profile

College Faculty Profile -

Sr. No.	Name	Designation	Qualification	Experience	Photo
1.	Miss. S. R. Inje.	Assistant Professor	M.Sc. NET- JRF GATE	1	
2.	Miss. R. M. Nadaf	Assistant Professor	M.Sc.	1	
3.	Miss. S. A. Kshirsagar	Assistant Professor	M.Sc.	1	

Visiting Faculty-

Sr. No.	Name	Designation	Qualificati on	Experience	Photo
1.	Mr. J. R. Yadav	Associate Professor YCIS Satara	M.Sc	32 years	
2.	Mrs. Manisha Shinde	Assistant Professor YCIS Satara	M.Sc SET	9 years	

D.P.Bhosale College, Koregaon

Department of Microbiology

Short term course

MICROBIAL QUALITY CONTROL IN INDUSTRIES

BSC III

Year: 2021-22

Syllabus Objectives

Objectives:-

Education that a student has acquired in his graduate studies is not enough to meet the demands when he/she is working in a responsible position in a pharmaceutical or in microbial industry. In most of the organizations fresher candidate are not given the job oriented instruction that they need and they find it difficult to adapt themselves to the working situations in which they are called upon to operate.

The short term course in Microbial quality control in industries offered by the Microbiology Department has specially designed to cater the requirements of such students.

- The course aims at covering the basic techniques and their applications to pharmaceutical industries.
- Students should get basic knowledge about antimicrobial agent and about efficacy testing.
- Students should also understand tools and techniques used in antimicrobial testing.
- Students should also understand regulations and recommendations about pharmacopeia.

Goals:-

The specific goal of the short term course is:

- To prepare graduate students (B.Sc.) with in depth knowledge and skill for professional careers in microbiology.
- Inculcate among the students skills and value of dignity of labor.
- Provide an environment which fosters the continuous improvement and innovations in the subject.

Learning Outcomes-

After performing the practical course students will be able to -

- Evaluate the microbiological analysis of environment in industries.
- Comprehend the concept of SOP, GMP and GLP in industries.
- Practically perform antimicrobial testing.

D. P. Bhosale College, Koregaon Department of Microbiology

Short term course

MICROBIAL QUALITY CONTROL IN INDUSTRIES B.Sc. III

Year: 2021-22

Course	Name of course	Lectures Hour per Unit
	Microbiological standards in Pharmaceutical industries	
	A. Design of aseptic area, laminar flow equipment; study of different sources of contamination in an aseptic area and methods of prevention, clean area classification.	10 Hours
Unit I-	B. Principles and methods of different microbiological assay.	
	C. Assessment of a new antibiotic and testing of antimicrobial activity of a new substance. General aspects – environmental cleanliness.	
	Quality control and Assurance (SOP,GLP,GMP)	
Unit II	A) GMP and regulations 1. Introduction 2. Good manufacturing practice 3. Importance of medicines in public health 4. The role and development of pharmacopoeias 5. Importance of inspections in the lifecycle of medicines 6. Role of the company regulatory affairs department 7. Documentation 8. Conclusion B) Cleaning and disinfection 1. Introduction	10 Hours
	 Introduction Cleaning Disinfection Good manufacturing Practice requirements Measuring disinfection effectiveness: environmental 	

	monitoring 6. Disinfectant efficacy 7. Conclusion	
Unit III-	Testing of pharmaceutical products A) Microbiology laboratory techniques 1. Introduction 2. Good laboratory practice and laboratory safety 3. Aseptic technique 4. Cultures and identifications 5. Microscopy 6. Pharmacopeia and microbiological tests 7. Microbiological examination of non-sterile products 8. Measurement of cell concentration in suspension by optical density 9. Sterility testing 10. Microbiological assay of antibiotics 11. Environmental monitoring 12. Water analysis	10 Hours
UnitIV	1. Microbial count 2. Units of measurement 3. No sterile products and microbial limits testing 4. In-process material bio burden assessment 5. Pre sterilization bio burden assessment 6. Alternative methods of bio burden assessment	10 Hours

Books recommended for theory-

- 1. Handbook of microbiology quality control- Norman A Hodges and Stephen P. Denyer.
- 2. Pharmaceutical microbiology- 6th edition- W.B. Hugo and A.D. Russell
- 3. Basic experimental microbiology by Ronald M. atlas, Alfred E. Brown
- 4. The basic pharmacology by Harper
- 5. Biochemistry of antimicrobial action Chapman and Hall, London.
- 6. Microbial quality assurance in pharmaceuticals by Sally F. Bloomfield
- 7. Pharmaceutical quality control Microbiology- A guide Book to the basics, Scott Sutton
- 8. Pharmaceutical microbiology by- Purohit
- 9. Industrial, Pharmaceutical microbiology- I, Standard and control editors- Doctor
- N. Hodge

Practical Syllabus

Sr. No	Practical Names
1.	Microbiological analysis of water- MPN
2.	Presumptive test of water
3.	Confirm test of water
4.	Completed test of water
5,	Determination of MIC of drug
6.	Estimation of antimicrobial activity
7.	Good manufacturing practices (GMP)
8.	Agar dilution technique
9.	Diffusion method by Gradient plate technique.

Suggested books for practicals -

- 1. Introduction to practical biochemistry by- D. Plummer, J Willey and Sons.
- 2. Introduction to microbial technique by Gunase karan.
- 3. Experimental microbiology by Patel and Patel.
- 4. Biochemistry of antimicrobial action, Chapman and Hall London, Franklin T.J. and Snow G A. 1975
- 5. Goldsmith A. Aronow L. Kalman S.M. (1969) the basic pharmacology, Harper international edition, New York
- 6. Kokate C K, Purohit A P, gokhale A B (2000), Pharmacology 4th edition, Nirali prakashan

Syllabus Design by: Miss. S. R. Inje

HEAD

DEPARTMENT OF MICROBIOLOGY

D.P. BHOSAH COLLEGE, KOREGAON

Department of Microbiology

D.P.Bhosale College, Koregaon

Department of Microbiology

Short term course

MICROBIAL QUALITY CONTROL IN INDUSTRIES

BSC III

Year: 2021-22

Syllabus distribution

	Syllabus distribution	
Course	Name of course	Name of Faculty
	Microbiological standards in Pharmaceutical industries A. Design of aseptic area, laminar flow equipment;	
	study of different sources of contamination in an aseptic area and methods of prevention, clean area classification.	Miss. S. R.
Unit I-	B. Principles and methods of different microbiological assay.	Inje
	C. Assessment of a new antibiotic and testing of antimicrobial activity of a new substance. General aspects – environmental cleanliness.	
	Quality control and Assurance (SOP,GLP,GMP)	
	A) GMP and regulations 1. Introduction 2. Good manufacturing practice 3. Importance of medicines in public health 4. The role and development of pharmacopoeias 5. Importance of inspections in the lifecycle of medicines	
UnitII	6. Role of the company regulatory affairs department 7. Documentation 8. Conclusion B) Cleaning and disinfection 1. Introduction 2. Cleaning 3. Disinfection 4. Good manufacturing Practice requirements 5. Measuring disinfection effectiveness: environmental	Miss. S. R. Inje

	monitoring 6. Disinfectant efficacy 7. Conclusion	
UnitIII-	Testing of pharmaceutical products A) Microbiology laboratory techniques 1. Introduction 2. Good laboratory practice and laboratory safety 3. Aseptic technique 4. Cultures and identifications 5. Microscopy 6. Pharmacopeia and microbiological tests 7. Microbiological examination of non-sterile products 8. Measurement of cell concentration in suspension by optical density 9. Sterility testing 10. Microbiological assay of antibiotics 11. Environmental monitoring 12. Water analysis	Miss. S. A. Kshirsagar
UnitIV	1. Microbial count 2. Units of measurement 3. No sterile products and microbial limits testing 4. In-process material bio burden assessment 5. Pre sterilization bio burden assessment 6. Alternative methods of bio burden assessment	Miss. R. M. Nadaf

MICROBIAL QUALITY CONTROL IN INDUSTRIES

Short term course

Practical Syllabus Distribution

Sr. No	Practical Names
1.	Microbiological analysis of water- MPN
2.	Presumptive test of water
3.	Confirm test of water
4.	Completed test of water
5.	Determination of MIC of drug
6.	Estimation of antimicrobial activity
7.	Good manufacturing practices (GMP)
8.	Agar dilution technique
9.	Diffusion method by Gradient plate technique.

Miss. S. A. Kshirsagar
 Miss. R. M. Nadaf

Head EGE . GAON

Department of Microbiology

Department of Microbiology

Short Term Course On,

"Microbial Quality control in Industries"

B.Sc. III Microbiology

Topic Name: Unit I: Microbiogical standards Date: 21/02/2022
in Pharmaceutical industries.

Sr. No.	Name of the Student	Signature
1	Adsul Akanksha Parmod	3 Radsw.
2	Banker Jyoti Dattatray	Bradsul.
3	Barge Tejal Sudhir	Horge
4	Bhosale Nikita Rajendra	
5	Bhosale Shivani Suresh	Sakhasale
6	Bhosale Shravani Shailesh	Shs
7	Gole Mayur Dinkar	anale
8	Inamdar Sahil Amir	Binandor
9	Kadam Partik Ajay	Rank
10	Kamble Srushti Manojkumar	&k.
11	Mali Sujit Ashok	dufforce
12	Mane Shubhada Dilip	
13	Nikam Tejas Shashikant	File
14	Sawant Shivam Rajendra	Front SP
15	Yewale Pratik Shubhash	Puscosele

Department of Microbiology

Short Term Course On,

"Microbial Quality control in Industries"

B.Sc. III Microbiology

Topic Name: Unit I: B] Principles and Date: 22/02/2022

methods of different microbiological assay

Sr. No.	Name of the Student	Signature
1	Adsul Akanksha Parmod	Fladsw.
2	Banker Jyoti Dattatray	Tourse,
3	Barge Tejal Sudhir	Bareje
4	Bhosale Nikita Rajendra	A
5	Bhosale Shivani Suresh	Sobbosale
6	Bhosale Shravani Shailesh	Sold
7	Gole Mayur Dinkar	Grock
8	Inamdar Sahil Amir	Sunamodem
9	Kadam Partik Ajay	Rose
10	Kamble Srushti Manojkumar	<u> </u>
11	Mali Sujit Ashok	Lusole
12	Mane Shubhada Dilip	(CI)
13	Nikam Tejas Shashikant	10th
14	Sawant Shivam Rajendra	Freedsk
15	Yewale Pratik Shubhash	Puennoo.

Department of Microbiology

Short Term Course On,

"Microbial Quality control in Industries"

B.Sc. III Microbiology

UnitI: c] Assessment of new Date: 28/02/2022 Antibiotics & testing of antimi crobial activity of a new substance **Topic Name:**

Sr. No.	Name of the Student	Signature
1	Adsul Akanksha Parmod	Aladsul.
2	Banker Jyoti Dattatray	Bladsul. Braye
3	Barge Tejal Sudhir	Poroje
4	Bhosale Nikita Rajendra	
5	Bhosale Shivani Suresh	Sobhosale
6	Bhosale Shravani Shailesh	Soles
7	Gole Mayur Dinkar	Growte
8	Inamdar Sahil Amir	Biromdon
9	Kadam Partik Ajay	Ram
10	Kamble Srushti Manojkumar	& Ak
11	Mali Sujit Ashok	July 100
12	Mane Shubhada Dilip	(51)
13	Nikam Tejas Shashikant	78/2
14	Sawant Shivam Rajendra	Freedor
15	Yewale Pratik Shubhash	PHENOCOLO

D. P. Bhosale College, Koregaon

Department of Microbiology

Short Term Course On,

"Microbial Quality control in Industries"

B.Sc. III Microbiology

Topic Name:

UnitIII: AJ Microbialogy Date: 7/03/2022 laboratory & laboratory safety.

Sr. No.	Name of the Student	Signature
1	Adsul Akanksha Parmod	अविवीडणे.
2	Banker Jyoti Dattatray	Brake
3	Barge Tejal Sudhir	Borele
4	Bhosale Nikita Rajendra	
5	Bhosale Shivani Suresh	Sophesale
6	Bhosale Shravani Shailesh	Suf
7	Gole Mayur Dinkar	Brocele
8	Inamdar Sahil Amir	(Sovernd on
9	Kadam Partik Ajay	Ran
10	Kamble Srushti Manojkumar	A.
11	Mali Sujit Ashok	Lytte
12	Mane Shubhada Dilip	ST
13	Nikam Tejas Shashikant	Toplus
14	Sawant Shivam Rajendra	Fracelsp
15	Yewale Pratik Shubhash	PHOODE

Department of Microbiology

Short Term Course On,

"Microbial Quality control in Industries"

B.Sc. III Microbiology

Unit III: Microbialogical assay Date: 21/03/2022 **Topic Name:** of antibiotics

or. No.	Name of the Student	Signature
1	Adsul Akanksha Parmod	Bradsul.
2	Banker Jyoti Dattatray	Broke
3	Barge Tejal Sudhir	Basyl
4	Bhosale Nikita Rajendra	A.
5	Bhosale Shivani Suresh	SSOhosale
6	Bhosale Shravani Shailesh	Soul
7	Gole Mayur Dinkar	Grocele
8	Inamdar Sahil Amir	Samondor
9	Kadam Partik Ajay	Ray.
10	Kamble Srushti Manojkumar	-&k
11	Mali Sujit Ashok	ful to
12	Mane Shubhada Dilip	800
13	Nikam Tejas Shashikant	Toll
14	Sawant Shivam Rajendra	Freed &
15	Yewale Pratik Shubhash	Pytenmoo.

Department of Microbiology

Short Term Course On,

"Microbial Quality control in Industries"

B.Sc. III Microbiology

Topic Name: UnitII: Cleaning & Date: 28/03/2022

disinfection

Sr. No.	Name of the Student	Signature
1	Adsul Akanksha Parmod	Fladsul.
2	Banker Jyoti Dattatray	DBanka
3	Barge Tejal Sudhir	Rogel
4	Bhosale Nikita Rajendra	De .
5	Bhosale Shivani Suresh	ssishosak
6	Bhosale Shravani Shailesh	Sail
7	Gole Mayur Dinkar	- Growte
8	Inamdar Sahil Amir	Suramolar
9	Kadam Partik Ajay	Rosty
10	Kamble Srushti Manojkumar	&k
11	Mali Sujit Ashok	Sufate
12	Mane Shubhada Dilip	ans:
13	Nikam Tejas Shashikant	Tom
14	Sawant Shivam Rajendra	Freedor
15	Yewale Pratik Shubhash	2420000

Department of Microbiology

Short Term Course On,

"Microbial Quality control in Industries"

B.Sc. III Microbiology

Unit IV: 1. Microbial count **Topic Name:** Date: 11/04/2022

THE PROPERTY.	3. No sterile product and r	me polar minis result
Sr. No.	Name of the Student	Signature
1	Adsul Akanksha Parmod	Madsul.
2	Banker Jyoti Dattatray	Madsul.
3	Barge Tejal Sudhir	Rose
4	Bhosale Nikita Rajendra	,
5	Bhosale Shivani Suresh	SSBhosale
6	Bhosale Shravani Shailesh	Shif
7	Gole Mayur Dinkar	Browle
8	Inamdar Sahil Amir	Bunamalan
9	Kadam Partik Ajay	Rad
10	Kamble Srushti Manojkumar	&k_
11	Mali Sujit Ashok	Just too
12	Mane Shubhada Dilip	(Chir)
13	Nikam Tejas Shashikant	Ta
14	Sawant Shivam Rajendra	Freeder
15	Yewale Pratik Shubhash	P

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Short Term Course On,

"Microbial Quality control in Industries"

B.Sc. III Microbiology

Unit IV! Bioburden determination Date: 18/04/2022. **Topic Name:**

Presterilization bio burden assesment Alternative method of Bio burden Assesment

Sr. No.	Name of the Student	Signature
1	Adsul Akanksha Parmod	Fladsul.
2	Banker Jyoti Dattatray	@Bonk-
3	Barge Tejal Sudhir	Bareje
4	Bhosale Nikita Rajendra	
5	Bhosale Shivani Suresh	Sphosale
6	Bhosale Shravani Shailesh	Say
7	Gole Mayur Dinkar	- Groche
8	Inamdar Sahil Amir	Sanamolox
9	Kadam Partik Ajay	Roby
10	Kamble Srushti Manojkumar	- &
11	Mali Sujit Ashok	bysta
12	Mane Shubhada Dilip	ani
13	Nikam Tejas Shashikant	Sthe
14	Sawant Shivam Rajendra	Book
15	Yewale Pratik Shubhash	Playends

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B.Sc. III Microbiology

Topic Name: Unit III: 6 Pharmacopeia & Date: 06/07/2022.

microbiological test

Sr. No.	Name of the Student	Signature
1	Adsul Akanksha Parmod	Fladsul.
2	Banker Jyoti Dattatray	DBanko
3	Barge Tejal Sudhir	Bonge
4	Bhosale Nikita Rajendra	
5	Bhosale Shivani Suresh	Sahosale
6	Bhosale Shravani Shailesh	Sul
7	Gole Mayur Dinkar	Brooke
8	Inamdar Sahil Amir	Scenamolor
9	Kadam Partik Ajay	Rader
10	Kamble Srushti Manojkumar	-Sk
11	Mali Sujit Ashok	duystoo
12	Mane Shubhada Dilip	e das
13	Nikam Tejas Shashikant	TSTOMA
14	Sawant Shivam Rajendra	Farmer SP
15	Yewale Pratik Shubhash	Premale

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Short Term Course On,

"Microbial Quality control in Industries"

B.Sc. III Microbiology

Topic Name: Unit II : AJGMP & regulations Date: 06/07/2022

or. No.	Name of the Student	Signature
1	Adsul Akanksha Parmod	Fladsw.
2	Banker Jyoti Dattatray	DBUKS
3	Barge Tejal Sudhir	Bosoft
4	Bhosale Nikita Rajendra	X.
5	Bhosale Shivani Suresh	988hosale.
6	Bhosale Shravani Shailesh	Shel
7	Gole Mayur Dinkar	Brok
8	Inamdar Sahil Amir	Sinamoor
9	Kadam Partik Ajay	Rall
10	Kamble Srushti Manojkumar	A.
11	Mali Sujit Ashok	Sulstee
12	Mane Shubhada Dilip	av.
13	Nikam Tejas Shashikant	Blikan
14	Sawant Shivam Rajendra	Socie BR
15	Yewale Pratik Shubhash	PC400000lo

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B.Sc. III Microbiology

Practical Name: 1) Microbiglogical analysis of wat Date: 23 + 26 / Feb / 2022

2) Presumptive Test of Water

3) Confirm and 4) Complete test of water.

Sr. No.	Name of the Student	Signature
1.	Adsul Akanksha Parmod	Madeul.
2.	Banker Jyoti Dattatray	DBankos
3.	Barge Tejal Sudhir	Bongs
4.	Bhosale Nikita Rajendra	De
5.	Bhosale Shivani Suresh	spenesale
6	Bhosale Shravani Shailesh	Shel
7.	Gole Mayur Dinkar	Brook
8.	Inamdar Sahil Amir	Seumannel or
9.	Kadam Partik Ajay	Rober
10.	Kamble Srushti Manojkumar	-Sk
11.	Mali Sujit Ashok	buloto
12.	Mane Shubhada Dilip	onus
13.	Nikam Tejas Shashikant	Talun
14.	Sawant Shivam Rajendra	Succes & P.
15.	Yewale Pratik Shubhash	PStonago

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"Microbial Quality control in Industries"

B.Sc. III Microbiology

Practical Name: 5) Determination of MIC of Date: 8-9/03/2022 drugs.

Sr. No.	Name of the Student	Signature
1.	Adsul Akanksha Parmod	STTackul.
2.	Banker Jyoti Dattatray	Den's
3.	Barge Tejal Sudhir	Doug
4.	Bhosale Nikita Rajendra	Da .
5.	Bhosale Shivani Suresh	Sehosale
6	Bhosale Shravani Shailesh	Shul
7.	Gole Mayur Dinkar	Greate
8.	Inamdar Sahil Amir	Genendos
9.	Kadam Partik Ajay	Roch
10.	Kamble Srushti Manojkumar	& &
11.	Mali Sujit Ashok	pylotee
12.	Mane Shubhada Dilip	Spery
13.	Nikam Tejas Shashikant	Talla
14.	Sawant Shivam Rajendra	Treat
15.	Yewale Pratik Shubhash	Pycosale

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"Microbial Quality control in Industries"

B.Sc. III Microbiology

Practical Name: Estimation of antimicrobial activity Date: 16-17/03/2022

Sr. No.	Name of the Student	Signature
1.	Adsul Akanksha Parmod	Madew.
2.	Banker Jyoti Dattatray	Dresso
3.	Barge Tejal Sudhir	Bareje
4.	Bhosale Nikita Rajendra	
5.	Bhosale Shivani Suresh	Sechosak
6	Bhosale Shravani Shailesh	Shy
7.	Gole Mayur Dinkar	Broke
8.	Inamdar Sahil Amir	Sinemolar
9.	Kadam Partik Ajay	Roll
10.	Kamble Srushti Manojkumar	-&k
11.	Mali Sujit Ashok	Level tear
12.	Mane Shubhada Dilip	onas
13.	Nikam Tejas Shashikant	Tolly
14.	Sawant Shivam Rajendra	Deene St
15.	Yewale Pratik Shuhhash	4/uponalo

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B.Sc. III Microbiology

Practical Name: Good manufacturing practices Date: 25/03/22

(GMP)

Sr. No.	Name of the Student	Signature
1.	Adsul Akanksha Parmod	Fladsul.
2.	Banker Jyoti Dattatray	Dealto
3.	Barge Tejal Sudhir	Barage
4.	Bhosale Nikita Rajendra	100
5.	Bhosale Shivani Suresh	58Bhosale
6	Bhosale Shravani Shailesh	Sus
7.	Gole Mayur Dinkar	Brock
8.	Inamdar Sahil Amir	Sinemolon
9.	Kadam Partik Ajay	Pools
10.	Kamble Srushti Manojkumar	-&k
11.	Mali Sujit Ashok	Lydra
12.	Mane Shubhada Dilip	Emis
13.	Nikam Tejas Shashikant	1.05 Mb
14.	Sawant Shivam Rajendra	Brown
15.	Yewale Pratik Shubhash	Promon 10

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Short Term Course On,

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B.Sc. III Microbiology

Practical Name: 8) Agar dilution technique

Date: 13/04/2022

Sr. No.	Name of the Student	Signature
1.	Adsul Akanksha Parmod	
2.	Banker Jyoti Dattatray	37 Radsul.
3.	Barge Tejal Sudhir	Rose
4.	Bhosale Nikita Rajendra	
5.	Bhosale Shivani Suresh	SaBhosale
6	Bhosale Shravani Shailesh	Shel
7.	Gole Mayur Dinkar	Procele
8.	Inamdar Sahil Amir	Genemdon
9.	Kadam Partik Ajay	Rank
10.	Kamble Srushti Manojkumar	-Sk
11.	Mali Sujit Ashok	fuglino
12.	Mane Shubhada Dilip	Simo.
13.	Nikam Tejas Shashikant	ToM
14.	Sawant Shivam Rajendra	Free P.
15.	Yewale Pratik Shubhash	Parovale

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B.Sc. III Microbiology

Practical Name: 9) Diffussion method by Gradient Date: 23/05/2022

plate technique 24/05/2022

25/05/2022

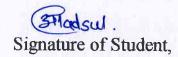
Sr. No. Name of the Student **Signature** Adsul Akanksha Parmod 1. Madsul. Banker Jyoti Dattatray 2. Barge Tejal Sudhir 3. Bhosale Nikita Rajendra 4. Bhosale Shivani Suresh 5. Sabhosule Bhosale Shravani Shailesh 6 Gole Mayur Dinkar 7. Einemdon Inamdar Sahil Amir 8. Kadam Partik Ajay 9. 10. Kamble Srushti Manojkumar Mali Sujit Ashok 11. 12. Mane Shubhada Dilip 13. Nikam Tejas Shashikant Sawant Shivam Rajendra 14. Yewale Pratik Shubhash 15. Rycocale

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Short Term Course On,

"Microbial Quality control in Industries"

	Feedb	ack Form	
Name of the s	tudent: Akanksha	Pramod Adsu	
Class: BSC-			
Mobile No:	1841010238		
1. Content of t	the Course		
j) Excellent	ii) Very Good	iii) Good	iv) Poor
2. Guest Lectu	rers knowledge		
i) Excellent	ii) Very Good	iii) Good	iv) Poor
3. Interaction	of the resource person	s	
Excellent	ii) Very Good	iii) Good	iv) Poor
4. Overall orga	anization of the Course		
Excellent	ii) Very Good	iii) Good	iv) Poor
Any other Sug	gestions:		
No Sugge	stions.		



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Short Term Course On,

"Microbial Quality control in Industries"

Name of the st	tudent: <u>Jyoti Dati</u>	tatray Bankar	
Class: Ty	BSC		
Mobile No:	9579609652		
1. Content of t	he Course		
j) Excellent	ii) Very Good	iii) Good	iv) Poor
2. Guest Lectu	rers knowledge		
i) Excellent	ii) Very Good	iii) Good	iv) Poor
3. Interaction	of the resource person	S	
i) Excellent	ii) Very Good	iii) Good	iv) Poor
4. Overall orga	nization of the Course		
i) Excellent	ii) Very Good	iii) Good	iv) Poor
Any other Sug	gestions:		
No Sugge	stions.		

D. P. Bhosale College, Koregaon Department of Microbiology

Short Term Course On,

"Microbial Quality control in Industries"

Mobile No: _	1385276630		
. Content of t	the Course		
Excellent -	ii) Very Good	iii) Good	iv) Poor
2. Guest Lectu	rers knowledge		
Excellent	ii) Very Good	iii) Good	iv) Poor
3. Interaction	of the resource person	s	
Excellent	ii) Very Good	iii) Good	iv) Poor
l. Overall orga	nization of the Course	•	
Excellent	ii) Very Good	iii) Good	iv) Poor
Any other Sug	gestions:		
No su	ggestions		

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Short Term Course On,

"Microbial Quality control in Industries"

Name of the student: Shosale	Nikita Rajendro	λ
Class: TY BBC		
Mobile No: 8208368569		
1. Content of the Course		
i) Excellent ii) Very Good	iii) Good	iv) Poor
2. Guest Lecturers knowledge		
i) Excellent Very Good	iii) Good	iv) Poor
3. Interaction of the resource per	sons	
i) Excellent Very Good	iii) Good	iv) Poor
4. Overall organization of the Co	urse	
i) Excellent ii) Very Good	iii) Good	iv) Poor
Any other Suggestions:		
No Suggestions		

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Short Term Course On,

"Microbial Quality control in Industries"

	ur_		
Mobile No:	010743980		
1. Content of t	the Course		
i) Excellent	ii) Very Good	iii) Good	iv) Poor
2. Guest Lectu	rers knowledge		
i) Excellent	ii) Very Good	iii) Good	iv) Poor
3. Interaction	of the resource persons	S	
i) Excellent	ii) Very Good	iii) Good	iv) Poor
4. Overall orga	anization of the Course		
i) Excellent	ii) Very Good	iii) Good	iv) Poor
Any other Sug	gestions:		
No Sugge	Strons,		

D. P. Bhosale College, Koregaon Department of Microbiology

Short Term Course On,

"Microbial Quality control in Industries"

	udent: 13hosale		Shorilest
	7058185492	5101099	
1. Content of t	he Course		
-i) Excellent	ii) Very Good	iii) Good	iv) Poor
2. Guest Lectu	rers knowledge		
i) Excellent	ii) Very Good	iii) Good	iv) Poor
3. Interaction of	of the resource persons	S	
1) Excellent	ii) Very Good	iii) Good	iv) Poor
4. Overall orga	nization of the Course		
1) Excellent	ii) Very Good	iii) Good	iv) Poor
Any other Sugg	gestions:		
No o	iny suggesti	on.	

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Short Term Course On,

"Microbial Quality control in Industries"

Name of the s	tudent: 1 namdoro	Sahi) A	ທ ໂ ຮ
Class: TY	BBC CM1000		
Mobile No: _	8317247972		
1. Content of	the Course		
i) Excellent	ii) Very Good	iii) Good	iv) Poor
2. Guest Lectu	arers knowledge		
i) Excellent	ii) Very Good	iii) Good	iv) Poor
3. Interaction	of the resource persons		
Excellent	ii) Very Good	iii) Good	iv) Poor
4. Overall org	anization of the Course		
i) Excellent	ii) Very Good	iii) Good	iv) Poor
Any other Sug	gestions:		
	ggestions		

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Short Term Course On,

"Microbial Quality control in Industries"

Name of the st	tudent: Gole Ma	jur Dinkar	
Class: TY.B			
Mobile No:	8830675515		
1. Content of t	the Course		
i) Excellent	ii) Very Good	iii) Good	iv) Poor
2. Guest Lectu	rers knowledge		
Excellent	ii) Very Good	iii) Good	iv) Poor
3. Interaction	of the resource persons	8	
i) Excellent	ii) Very Good	iii) Good	iv) Poor
4. Overall orga	nization of the Course		
Li Excellent	ii) Very Good	iii) Good	iv) Poor
Any other Sug	gestions:		
			-

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Short Term Course On,

"Microbial Quality control in Industries"

Class: T.Y	· BSC		
Mobile No:	9503651475		
1. Content of t	he Course		
i) Excellent	ii) Very Good	iii) Good	iv) Poor
2. Guest Lectu	rers knowledge		
Excellent	ii) Very Good	iii) Good	iv) Poor
3. Interaction of	of the resource person	s	
i) Excellent	ii) Very Good	iii) Good	iv) Poor
4. Overall orga	nization of the Course		
i) Excellent	ii) Very Good	iii) Good	iv) Poor
Any other Sugg	gestions:		
		United Livering	

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Short Term Course On,

"Microbial Quality control in Industries"

Name of the st	tudent: Kamble 9	brushti Manojk	umar
Class: B.		J	
Mobile No: _ §	3275367781		
1. Content of t	he Course		
j) Excellent	ii) Very Good	iii) Good	iv) Poor
2. Guest Lectu	rers knowledge		
j) Excellent	ii) Very Good	iii) Good	iv) Poor
3. Interaction	of the resource person	s	
j) Excellent	ii) Very Good	iii) Good	iv) Poor
4. Overall orga	nization of the Course	2	
i) Excellent	ii) Very Good	iii) Good	iv) Poor
Any other Sug	gestions:		
	estion		

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Short Term Course On,

"Microbial Quality control in Industries"

Name of the s	tudent: Mali Suj	it Ashok	
	140		
Mobile No:	B.Sc 1075867540		
1. Content of t	the Course		
Excellent	ii) Very Good	iii) Good	iv) Poor
2. Guest Lectu	rers knowledge		
Excellent	ii) Very Good	iii) Good	iv) Poor
3. Interaction	of the resource persons	s	
Excellent	ii) Very Good	iii) Good	iv) Poor
4. Overall orga	nization of the Course		
Excellent لن	ii) Very Good	iii) Good	iv) Poor
Any other Sug	gestions:		
<u> </u>			
16	en good		

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Short Term Course On,

"Microbial Quality control in Industries"

Name of the s	tudent: Mane Sh	ubhada Vilip.	
Class: Ty.	BSC.	· ·	
Mobile No: _	8830018824		
1. Content of t	the Course		
j) Excellent	ii) Very Good	iii) Good	iv) Poor
2. Guest Lectu	rers knowledge		
i) Excellent	ii) Very Good	iii) Good	iv) Poor
3. Interaction	of the resource person	s	
i) Excellent	ii) Very Good	iii) Good	iv) Poor
4. Overall orga	anization of the Course	e	
i) Excellent	ii) Very Good	iii) Good	iv) Poor
Any other Sug	gestions:		
No S	uggestions		
	00		

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Department of Microbiology

Short Term Course On,

"Microbial Quality control in Industries"

Name of the student: Tejos Sho	shikant Mil	Kam
Class: Ty. Brc		
Mobile No: 8180097546.		
1. Content of the Course		
i) Excellent ii) Very Good	iii) Good	iv) Poor
2. Guest Lecturers knowledge		
i) Excellent ii) Very Good	iii) Good	iv) Poor
3. Interaction of the resource persons		
i) Excellent ii) Very Good	iii) Good	iv) Poor
4. Overall organization of the Course		
i) Excellent ii) Very Good	iii) Good	iv) Poor
Any other Suggestions:		
"No' suggestion'		

D. P. Bhosale College, Koregaon Department of Microbiology

Short Term Course On,

"Microbial Quality control in Industries"

Name of the student: Shivam Rajendra Sawant

Class: T. Y.	BSC (Micro)		
	380056876		
1. Content of t	the Course		
(i) Excellent	ii) Very Good	iii) Good	iv) Poor
2. Guest Lectu	rers knowledge		
(i) Excellent	ii) Very Good	iii) Good	iv) Poor
3. Interaction	of the resource persons		
(i) Excellent	ii) Very Good	iii) Good	iv) Poor
4. Overall orga	anization of the Course		
Excellent	ii) Very Good	iii) Good	iv) Poor
Any other Sug	gestions:		
No Sug	gestion.	 	

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"Microbial Quality control in Industries"

Iobile No:	830803 656		
1. Content of	the Course		
i) Excellent	ii) Very Good	iii) Good	iv) Poor
2. Guest Lectu	irers knowledge		
i) Excellent	ii) Very Good	iii) Good	iv) Poor
3. Interaction	of the resource persons	3	
i) Excellent	ii) Very Good	iii) Good	iv) Poor
4. Overall orga	anization of the Course		
) Excellent	ii) Very Good	iii) Good	iv) Poor
Any other Sug	gestions:		¥.
- No	ð. ´	_ 200,00	- 1 - 1 - 1