

SAVITRIBAI PHULE PUNE UNIVERSITY

T.Y.B.A. HISTORY SYLLABUS

From 2015 -2016

INTRODUCTION TO HISTORY

LEVEL: S3



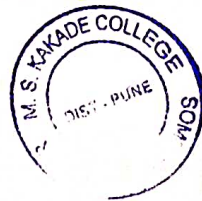
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MUGUTRAD SAHEBRAD KAKADE COLLEGE,
SOMESHWARNAGAR, TAL. BARAMATI, DIST. PUNE-412336

INTRODUCTION TO HISTORY

OBJECTIVES

1. To orient students about how history is studied, written and understood.
2. To explain methods and tools of data collection
3. To understand the meaning of Evolution of Historiography.
4. To study the Various Views of Historiography.
5. To study the approaches to Historiography.
6. To study the types of Indian Historiography.
7. To describe importance of inter-disciplinary research.
8. To introduce students to the basics of research.
9. To acquaint the student with the recent research in History.
10. Learn how to use sources in their presentation.




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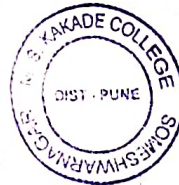
FIRST TERM

1. Conceptual Study (08)

- 1.1 History
- 1.2 Heuristic
- 1.3 Archives
- 1.4 Oral History
- 1.5 Cronical
- 1.6 Sanad / Farman
- 1.7 Marxism
- 1.8 New Marxism
- 1.9 Modernism
- 1.10 Post - Modernism
- 1.11 Structuralism
- 1.12 Post - Structuralism

2. NATURE AND SCOPE OF HISTORY (10)

- 2.1 Meaning and Definition
- 2.2 Nature and Scope of History
- 2.3 Importance



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3. SOURCES OF HISTORICAL RESEARCH (10)

3.1 Primary and Secondary

3.2 Written and Un-written

3.3 Importance of Sources

4. HISTORICAL RESEARCH (10)

4.1 Selection of Research Problem

4.2 Historical Methods

4.3 External Criticism

4.4 Internal Criticism

4.5 Interpretation

5. MAJOR ARCHIVES IN MAHARASHTRA: BRIEF STUDY (10)

5.1 Mumbai Archives

5.2 Pune Archives

5.3 Bharat Itihas Sanshodhak Mandal, Pune

5.4 Nagpur Archives

5.5 Kolhapur Archives

5.6 V.K.Rajwade Itihas Sanshodhak Mandal, Dhule

5.7 Deccan College



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SECOND TERM

6. HISTORY AND SOCIAL SCIENCE (10)

6.1 History and Geography

6.2 History and Political Science

6.3 History and Economics

6.4 History and Sociology

7. SCHOOL OF HISTORIOGRAPHY (10)

7.1 Imperialist

7.2 Nationalist

7.3 Marxist

7.4 Subaltern

7.5 Local History

8. HISTORIANS OF MAHARASHTRA (10)

8.1 V. K. Rajwade

8.2 G. S. Sardesai

8.3 T. S. Shejwalkar

8.4 G. H. Khare

8.5 J. Sarkar



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9. INDIAN HISTORIANS

(10)

9.1 R. C. Mujumdar

9.2 K. A. Niolkant Shastri

9.3 D. D. Kosambi

9.4 Romila Thapar

10. HISTORICAL STUDY TOUR OR PROJECT WORK

PROJECT WORK & EVALUATION SCHEME

1. Term end examination of 60 marks shall be held at the end of the first term.
2. Candidate shall submit a report of minimum 3000 words i.e. 10 to 15 pages to the department by end of the February.
3. A viva-voce should be conducted before theory examination and the results should be sent to the University as immediately
4. The result should be prepared as follows:
 - a) 60 marks of term end examination converted in to 20 marks
 - b) 50 marks Annual examination for 2 hours conducted by University of Pune Equal weightage for all topics
 - c) 30 Marks exam should be conducted by the department 20 marks for Project work & 10 marks Viva-voce exam.

BOOKS FOR STUDY

ENGLISH




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1. Avneri S., Social and Political Thought of Karl Marx, Cambridge, 1968.

2. Barnes H.E., History of Historical Writing, Dover, New York, 1963.

3. Cannadinen David (Ed.), What is History Now?, Palgrave Macmillan, Basingstoke, 2002.
4. Carr E.H., What is History, Penguin Books, Harmondsworth, 1971.
5. Chitnis K.N., Research Methodology in History
6. Collingwood, R.G., The Idea Of History, Oxford University Press, New York, 1976.
7. Elton G.R., Practice of History, Blackwell, London, 2001.
8. E. Shridharan, A Textbook of Historiography 500 BC to AD 2000, Orient BlackSwan, New Delhi.
9. Grewal J.S., History and Historians of Medieval India, Guru Nanak University, Amritsar, 2000.
10. Langlois Ch, V. And Ch. Seignobos, Introduction to the study of History, Barnes and noble Inc. and Frank Cass and co., New York, 1966.
11. Mujumdar R.C., Historiography in Modern India, 1970.
12. Sarkar Sumit, Writing Social History, OUP, Delhi, 1998.
13. Sen S.P.(Ed.), Historians and Historiography in Modern India, Culcutta, 1973.
14. Shiekh Ali, History : Its Theory and Method, Macmillan Publication, Madras, 1972.
15. Tikekar S.R., On Historiography, Mumbai, 1964.
16. Wilkinson and Bhandarkar, Research Methdology in Social Sciences, Himalaya, New Delhi, 2002.



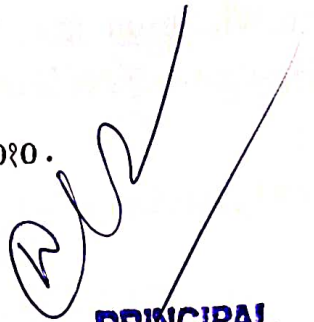
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MARATHI

१. आठवले सदाशिव, इतिहासाचे तत्त्वज्ञान, प्राज्ञ पाठशाळा प्रकाशन वार्ड, १९६७ .
२. कार इ.एच. (अनु.वि.गो.लेले), इतिहास म्हणजे काय?, कॉन्टिनेन्टल प्रकाशन, पुणे, १९९८ .
३. कुलकर्णी अ.रा., मराठ्यांचे इतिहासकार, डायमंड पब्लिकेशन्स, पुणे, २००९ .
४. कोटेकर शांता, इतिहास : तंत्र आणि तत्त्वज्ञान, साईनाथ प्रकाशन, नागपूर, २००५ .
५. कोसांबी डी.डी., पुराणकथा आणि वास्तवता
६. खरे ग.ह., संशोधकाचा मित्र, भा.इ.स.मंडळ, पुणे, १९७० .
७. गर्गे स.मा., इतिहासाची साधने : एक शोधयात्रा, पॉप्युलर प्रकाशन, मुंबई, २००० .
८. गद्रे प्रभाकर, इतिहासलेखनाच्या परंपरा, श्री मंगेश प्रकाशन, नागपूर, २००४ .
९. घाटे वि.द., इतिहास शास्त्र आणि कला, देशमुख आणि कंपनी, पुणे, १९९० .
१०. चितळे श.दा., इतिहास कसा शिकवावा, पुणे विद्यार्थी गृह प्रकाशन, पुणे, १९९० .
११. चौसाळकर अशोक, मार्क्सवाद व नवमार्क्सवाद, प्रतिमा प्रकाशन, पुणे, २००३ .
१२. जोशी लक्ष्मणशास्त्री (संपा.), मराठी विश्वकोश, खंड २, महाराष्ट्र राज्य साहित्य संस्कृती मंडळ, मुंबई, १९७६ .
१३. टिकेकर अरूण (संपा.), पुणे शहर : एका सांस्कृतिक संचिताचा मागोवा, पुणे, २००० .
१४. देव प्रभाकर, इतिहासशास्त्र संशोधन, अध्यापन आणि लेखनपरंपरा, ब्रेन टॉनिक प्रकाशन गृह, नाशिक, २००७ .
१५. देशपांडे सुरेश, मराठ्यांच्या इतिहासाचे भाष्यकार, पुणे, १९९२ .
१६. पंडित के.मो., इतिहास संशोधन पद्धत, मुंबई मराठी ग्रंथसंग्रहालय, मुंबई, १९६५ .
१७. पत्की श्री.मा., इतिहास अध्यापन पद्धती व तंत्र, मिलिंद प्रकाशन, औरंगाबाद, २००० .
१८. पारसनीस, इतिहासाचे अध्यापन, व्हीनस प्रकाशन, पुणे, १९६० .
१९. वगाडे उमेश (संपा.), इतिहासलेखन मीमांसा, लोकवाङ्मय गृह, मुंबई, २०१० .
२०. राजेजी शा. पुणे शहराचा ज्ञानकोश, पुणे, १९९४ .





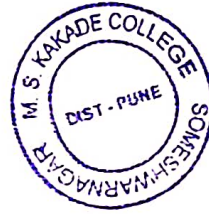
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- २१ .मालशे स .गं ., शोधनिबंधाची लेखनपद्धती, लोकवाङ्मय गृह, मुंबई, २०११ .
- २२ . राजदेरकर सुहास, इतिहासलेखनशास्त्र
- २३ .वरखडे रमेश, ऐतिहासिक संशोधन पद्धती, नाशिक, २०१३ .
- २४ .वळसंगकर कृ .वा ., इतिहास स्वरूप आणि अभ्यास
- २५ .वांबुरकर जाखंदी (संपा .) , इतिहासातील नवेप्रवाह, डायमंड पब्लिकेशन्स, पुणे, २०१४ .
- २६ .शेख गफूर, इतिहासलेखनशास्त्र, प्रितम पब्लिकेशन्स, जळगाव, २००४ .
- २७ .संत दु .का ., संशोधन : पद्धती, प्रक्रिया अंतरंग, पुणे विद्यार्थी गृह प्रकाशन, पुणे, २०१० .
- २८ .सरदेसाई वी .एन ., इतिहास लेखनशास्त्र, फडके प्रकाशन, कोल्हापूर, २००२ .
- २९ .हनमंते, पाटील, गायकवाड, इतिहासाचे लेखनशास्त्र



Co-ordinator

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 SOMESHWAR NAGAR

Class: T.Y.B.A

Medium: (All)

Subject Wise Register (Single Subject) [For A.Y. 2020-2021]

Division Type: G/NG/PNG

Division: (All)

Subject: HISTORY SPL III

Subject Code: 3178

Member ID	Roll No.	Student's Name	Mother's Name	Gender	Caste Category	Fee Category	Adm. Date	Div.	Cell No.	Email ID	Last Exam %
15551	1008	PAWAR SONAM NARAYAN	ALKA	Female	OPEN	EBC	26/08/2020	A	7066728689	pawarsonam10@gmail.com	61.54
15946	1010	WAGH AKSHAY HANUMAN	CHHAYA	Male	OBC	B.C	26/08/2020	A	9890205907	akshaywagh20912@gmail.com	54.15
16406	1023	HONMANE AJINKYA JALINDER	JAYASHRI	Male	SC	B.C	28/08/2020	A	7028816859	ajinkyahonmane2018@gmail.com	78.31
14232	1045	ZADAGE PRATHMESH SATISH	NAMRATA	Male	OBC	B.C	28/08/2020	A	8796105481	zadageprathmesh10@gmail.com	53.80
16577	1060	GOFANE VITTHAL MAHADEV	KALAVATI	Male	NT(C)	B.C	01/09/2020	A	9881485711	vitthalgofane1999@gmail.com	46.00
16453	1076	KHOMANE SARIKA SHANTARAM	ULKA	Female	VJNT	B.C	04/09/2020	A	9552056435	khomanesarka46@gmail.com	52.77
15433	1082	JAGTAP SANTOSH DATTATRAY	CHHAYA	Male	OPEN	EBC	08/09/2020	A	7378871672	jagtapsantosh10@gmail.com	44.62
14128	1085	JAGTAP SURAJKUMAR SANTOSH	KOUSHALYA	Male	OPEN	EBC	08/09/2020	A	8888179497	sachinskshirsagar1@gmail.com	50.31
14267	1090	KHOMANE SAMBHAJI SHIVAJI	MINA	Male	VJ A	B.C	08/09/2020	A	7083390505	sambhajikhomane231@gmail.com	47.38
14422	1091	GADEKAR ASHOK VIJAY	VAISHALI	Male	OPEN	EBC	18/09/2020	A	8530659400	ashokgadekar201@gmail.com	46.92
16013	1097	SHINDE DHANANJAY JALINDAR	NIRMALA	Male	OPEN	EBC	18/09/2020	A	9158711939	shindedhananjay345@gmail.com	49.38
16545	1112	SALVE RUSHIKESH RAHUL	SAVITA	Male	SC	B.C	06/10/2020	A	9767415278	rushikeshsalve512@gmail.com	49.23
15667	1116	GAIKWAD RUPALI HARIDAS	LATA	Female	OPEN	EBC	13/10/2020	A	9766779802	gaikwadrupali10@gmail.com	45.38
15668	1117	SALAVE NEHA RAMESH	PRAMILA	Female	SC	B.C	13/10/2020	A	9422296303	nehasalave808@gmail.com	53.54
13246	1119	NEVASE SURAJ ASHOK	TARABAI	Male	OBC	B.C	20/10/2020	A	9766171839	nevases@gmail.com	46.77
16588	1133	GARABADE MADHAV SATVAJI	VITTHABAI	Male	SC	B.C	19/01/2021	B	8317242860	garbademadhav@gmail.com	51.00

Total 16 records



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 M. S. Kakade College, Someshwarnagar

Caste Category Summary Report

Caste Category	Male	Female	Total
NT(C)	1	0	1
OBC	3	0	3
OPEN	4	2	6
SC	3	1	4
VJ A	1	0	1
VJNT	0	1	1
Total	12	4	16

Fee Category Summary Report

Fee Category	Male	Female	Total
B.C	8	2	10
EBC	4	2	6
	12	4	16



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M. S. KAKADE COLLEGE, SOMESHWARNAGAR
TAL-BARAMATI, DIST-PUNE (412306)

Academic Year (2020-21)

Department of History

T.Y.B.A. Historical Project

Sr. No.	Student Name	Mob. No.
1	Pawar Sonam Narayan	7066728689
2	Wagh Akshay Hanumant	9890205907
3	Honmane Ajinkya Jalindar	7028816859
4	Zagade Prathmesh Satish	8796105481
5	Gophane Vitthal Mahadev	9881485711
6	Khomane Sarika Shantaram	9552056435
7	Jagtap Santosh Dattatraya	7378871672
8	Jagtap Surajkumar Santosh	8888179497
9	Khomane Sambhaji Shivaji	7083390505
10	Gadekar Ashok Vijay	8530659400
11	Shinde Dhananjay Jalindar	9158711939
12	Salve Rushikesh Rahul	9767415278
13	Gaikwad Rupali Haridas	9766779802
14	Salave Neha Ramesh	9422296303
15	Newase Suraj Ashok	9766171839
16	Garbade Madhav Satvaji	8317242860



Waydande
Dr. Devidas Waydande
Head Department of History

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Co-ordinator

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M. S. Kakade College, Someshwarnagar

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Savitribai Phule Pune University

(Formerly University of Pune)

S.Y.B.A. (Geography) Correction

Choice Based Credit System Syllabus

To be implemented from Academic Year 2020-2021



Semester	Core Courses	Paper No	Paper Code	Subject	Total Lecture	Credit
III	Geography CC-1C	G2	Gg: 201(A)	Environmental Geography I OR Economic Geography -I	48	3
	Geography DSE – 1A	S1	Gg: 220(A)	Geography of Maharashtra - I OR Population Geography – I	48	3
	Geography DSE – 2A	S2	Gg: 210(A)	Practical Geography – I (Scale and Map Projections)	60	4
	SEC-I		SEC - A	Introduction to Geographical Information System (GIS) / Applied Course of Disaster	30	2

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				Management		
IV	Geography CC-1C	G2	Gg: 201(B)	Environmental Geography II OR Economic Geography -II	48	
	Geography DSE – 1B	S1	Gg: 210(B)	Geography of Maharashtra – II OR Population Geography – II	48	3
	Geography DSE – 2B	S2	Gg: 220(B)	Practical Geography – II (Cartographic Techniques, Surveying and Excursion / Village / Project Report)	60	4
	SEC-I		SEC - B	& Introduction to Remote Sensing / Applied Course of Travel & Tourism	30	2

S. Y. B. A. GEOGRAPHY

Equivalence of Previous syllabus along with new syllabus:

Pager	Old Course (2013 Annual Pattern)	New Course (2019 Semester Pattern)
G2	Gg-210 Elements of Climatology and Oceanography OR	Gg: 210(A) Environmental Geography I OR Gg: 210(A) Economic Geography -I
G2	Gg-210 Geography of Disaster Management	Gg: 210(B) Environmental Geography II OR Gg: 210(B) Economic Geography -II
S1	Gg-220 Economic Geography OR	Gg: 220(A) Geography of Maharashtra - I OR Gg: 220(A) Population Geography – I
S1	Gg-220 Tourism Geography	Gg: 220(B) Geography of Maharashtra – II OR Gg: 220(B) Population Geography – II
S2	Gg-201 Fundamentals of Geographical Analysis	Gg: 201(A) Practical Geography – I (Scale and Map Projections) Gg: 201(B) Practical Geography – II (Cartographic Techniques, Surveying and Excursion / Village / Project Report)


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S.Y.B.A. Geography (S2), Syllabus for Semester IV
Name of the Subject: Cartographic Techniques, Surveying and Excursion
/ Village / Project Report subject Code: Gg. 201 (B)

Practical Geography-II No. of Credits: 04

Workload: Six Periods per week per batch consisting of 12 Students; however the last batch needs to have more than six students.

(Examination for the course will be conducted at the end of the semester)

Objectives of Course:

1. To introduce the students to the basic and contemporary concepts in Cartography.
2. To acquaint the students with the utility and applications of various Cartographic Techniques.
3. To introduce the latest concepts regarding the modern cartography in the field of Geography.
4. To explain the elementary and essential principles of practical work in Geography.

Course Outcome:

After the successful completion of the course, the students will be able to:

1. Develop practical knowledge and application of cartographical techniques.
2. To make students aware of the new techniques, accuracy and skills of Map Making.

Note :

1. Use of Map stencils, Log tables, Calculators, Statistical Tables is allowed at the time of Examination.
2. Journal completion by the students and the certified by practical in-charge and Head of the Department is compulsory.
3. Students without a certified journal should not be allowed for the practical examination.
4. Each of the practical batches needs a separate question paper.

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Sr. No.	Topic	Sub Topic & Learning Point	No of Practical	Credits
1.	Introduction to Cartography	1. Definition of Cartography 2. Development of cartography a. Traditional b. Modern 3. Use of Cartography	02	
2.	Cartographic techniques	1. Techniques of representation of data (Use and limitations) a. Simple line graph b. Simple bar Graph c. Pie diagram d. Choropleth Map e. Isopleth Method (Isoheight or Isothermal) f. Flow diagram (At least 01 example of each manually and using computer)	06	
3.	Surveying	1. Definition of Surveying 2. Types of North Direction (True, Magnetic and Grid North) 3. Types of Survey (Any three) a. Plane Table Survey : (Radiation Method and Intersection Method) b. GPS Survey and plotting c. Dumpy level / Auto level survey i) Rise and Fall Method ii) Collimation Method d. Demonstration of Total Station 4. Measurement of land: i) Measurement of survey field ii) Example on measurement of area (Circle, Square, Rectangle, Triangle, Uneven shape) iii) Conversion of area (hector into Acer, Square km into square meter, Square meter to Square feet)	08	04
4.	Excursion / village/city survey and report writing	Study tour to places of geographical interest anywhere in the country Or Socio- economic survey of village/city	04	



Savitribai Phule Pune University

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Reference Books:

1. Sharma J. P., 2010, Prayogic Bhugol, Rastogi Publishers, Meerut.
2. Singh R. L. and Singh R. P. B., 1999, Elements of Practical Geography, Kalyani Publishers.
3. Slocum T. A., McMaster R. B. and Kessler F. C., 2008, Thematic Cartography and Geovisualization (3rd Edition), Prentice Hall.
4. Tyner J. A., 2010, Principles of Map Design, The Guilford Press.
5. Sarkar A., 2015, Practical Geography: A Systematic Approach, Orient Black Swan Private Ltd., New Delhi
6. Singh R. L. and Dutta P. K., 2012, Prayogatama Bhugol, Central Book Depot, Allahabad
7. Ahirrao Y., Karanjkehele E. K., 2002, Practical Geography, Sudarshan Publication, Nashik
8. Saptarshi P. G., Jog S. R., Statistical Methods ,
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12. Saha P., Basu P., 2007, Advanced Practical Geography, Books and Allied (P) Ltd, Kolkata
13. Advanced Practical Geography: 2007, Saha P., Basu P., Books and Allied (P) Ltd, Kolkata


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MUGUTRAO SAHEBRAO KAKADE COLLEGE
SOMESHWAR NAGAR

Subject Wise Register (Single Subject) [For A.Y. 2020-2021]

Page 1 of 2

Class: S.Y.B.A

Medium: (All)

Division Type: G/NG/PNG

Division: (All)

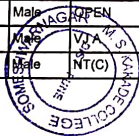
Subject: GEOGRAPHY SPL II

Subject Code: 2109

Member ID	Roll No.	Student's Name	Mother's Name	Gender	Caste Category	Fee Category	Adm. Date	Div.	Cell No.	Email ID	Last Exam %
17312	512	DAGADE GAURAV SOMNATH	SHAILA	Male	NT(C)	B.C	28/08/2020	A	9075760392	gauravdagade1213@gmail.com	40.31
17643	515	JAIN SHRADDHA BHUSHAN	VIJAYA	Female	OPEN	EBC	28/08/2020	A	8688580952	shraddha2001j@gmail.com	54.46
16940	516	PAWAR AISHWARYA BALKRUSHNA	VAISHALI	Female	OBC	B.C	28/08/2020	A	9766060310	aishwaryapawar2402@gmail.com	67.23
17310	524	BICHUKALE SACHIN APPA	SANGITA	Male	NT(C)	B.C	28/08/2020	A	7796763322	sachinbichukale2001@gmail.com	51.23
16680	529	SHINDE KARAN SATISH	VAISHALI	Male	OPEN	EBC	01/09/2020	A	8600452737	karanshinde4758@gmail.com	61.76
17607	530	RAJE VAIBHAV CHANDRAKANT	CHHAYA	Male	OBC	B.C	01/09/2020	A	8600452737	rajevaibhav12@gmail.com	33.00
17302	545	KHOMANE OMKAR BALU	JAYSHRI	Male	VJ A	B.C	04/09/2020	A	9325743865	omkar2002@gmail.com	52.00
17019	551	BANSODE SURAJ DHANANJAY	MANGAL	Male	SC	B.C	04/09/2020	A	9022171480	bansodesuraj826@gmail.com	50.15
16716	554	JADHAV ROHIT BHIMRAO	SAVITA	Male	VJNT	B.C	04/09/2020	A	7666483320	rohitjadhav18112001@gmail.com	56.46
16780	561	TENGALE KOMAL SATISH	VAISHALI	Female	NT(C)	B.C	04/09/2020	A	9604053237	tengalekomal10@gmail.com	62.62
17114	565	BHOI MANOJ KAILAS	ALKA	Male	NT B	B.C	08/09/2020	A	7498549312	manojbhoi5400@gmail.com	52.46
17508	567	JAGDALE PRANITA SHASHIKANT	SUNITA	Female	SC	B.C	08/09/2020	A	9922986023	sachinskshirsagar1@gmail.com	65.08
16951	568	JADHAV RUPALI SHIVAJI	MANGAL	Female	VJ A	B.C	08/09/2020	A	9373490532	sachinskshirsagar1@gmail.com	64.77
17411	572	RASKAR DIPALI ANNA	KAMAL	Female	OBC	B.C	18/09/2020	A	9423168911	raskardipali2000@gmail.com	55.69
17245	573	KSHIRSAGAR AMRUTA AVINASH	JAYASHRI	Female	OBC	B.C	18/09/2020	A	9764751386	sachinskshirsagar1@gmail.com	53.85
16667	575	MORE ARPITA HEMANT	UJWALA	Female	NT(C)	B.C	18/09/2020	A	9503990745	morearpita10@gmail.com	63.38
1922	629	SAWANT DHIRAJ SURESH	MANGAL	Male	OPEN	B.C	20/10/2020	B	9881610329	sachinskshirsagar1@gmail.com	16.83
16039	631	BHAGAT MUKESH HANUMANT	RANJANA	Male	SC	B.C	03/11/2020	B	9762065580	mukeshbhagat307@gmail.com	58.92
17113	632	GAIKWAD SURAJ VIJAY	SUSHAMA	Male	OPEN	EBC	03/11/2020	B	8766708414	gaikwadsuraj10@gmail.com	53.69
17431	633	BHANDALKAR RUEPSH MALHARI	GOKULA	Male	VJ A	B.C	03/11/2020	B	9766257299	rupeshbhandalkar3@gmail.com	45.85
16686	635	KOKARE BHIVA BHIMA	RAHIBAI	Male	NT(C)	B.C	17/11/2020	B	8432994141	bhivakokare2000@gmail.com	0.00

[Signature]
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Caste Category Summary Report

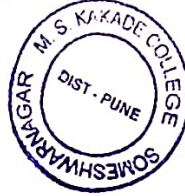
Caste Category	Male	Female	Total
NT B	1	0	1
NT(C)	3	2	5
OBC	1	3	4
OPEN	3	1	4
SC	2	1	3
VJA	2	1	3
VJNT	1	0	1
Total	13	8	21

Fee Category Summary Report

Fee Category	Male	Female	Total
B.C	11	7	18
EBC	2	1	3
	13	8	21

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Savitribai Phule Pune University, Pune

T.Y.B.A

Gg. 301: Techniques of Spatial Analysis (S-4)

Effective from-June-2015

Workload: Six periods per week per batch (12 students for per Batch)
(Examination for the course will be conducted at the end of academic year).

Objectives:

1. To Introduce the Students with SOI Toposheets and to acquire the Knowledge of Toposheet Reading/Interpretation.
2. To familiarize the students with the weather instruments and their applications in Geographical phenomena.
3. To acquaint the students with IMD weather maps and to gain the knowledge of weather map Reading / interpretation.
4. To train the students in elementary statistics as an essential part of geography.
5. To awareness about GIS among the students.

Section - I

Unit No.	Topic	Learning Points	Periods
1	Toposheets	a. Introduction to Survey of India (SOI) toposheets, Marginal Information, Grid reference, Conventional signs and symbols b. Types of toposheet/Indexing of toposheets i. 1: 1000000/Million sheet ii. 1:250000/Degree sheet/Quarter inch sheet iii. 1:100000/Half inch sheet iv. 1:50000/One inch sheet v. 1:25000 vi. 1: 5000	15
2.	Methods of Relief Representation	1. Methods of Relief Representation a. Qualitative :- Hachures, Hill shading, Layer Tint b. Quantitative:- Contours, Form lines, Bench Marks, Spot Heights, Triangulation Mark, Relative Height (r) 2. Representation of Relief features by Contours a. Concave Slope, Convex Slope, Steep Slope, Gentle Slope, Terraced / Uniform b. Conical Hill, Spur, Plateau, Ridge, Saddle, Pass, Cliff & Waterfall 3. Profile a. Drawing and Description of Cross Profile of any Region from toposheet b. Drawing and Description of Longitudinal Profile of a Road or a River	15
3.	Toposheet Reading, Interpretation & data generation	1. Reading of at least three SOI toposheets one each for Plain, Plateau and Mountainous/hilly Region 2. One day field Excursion for Orientation of toposheet, Observation and Identification of Geographical Features and Preparation of a Brief Report	15


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4.	Application of Remote Sensing Techniques in Geography	1. Introduction of Aerial Photographs & Satellite Image 2. Stereoscopic View of Aerial Photographs & Satellite Image and Identification of Geographical features 3. Use of Computer open source software for visualization of Aerial Photographs & Satellite Image	15
Section - II			
5.	Weather Maps & Reading	a. Introduction to Weather Maps b. Symbols in Daily Weather Report used by India Meteorological Department (IMD) c. Isobaric pattern Cyclones, Anti cyclones, V shaped Cyclones, V Shaped Anti Cyclones , Col a. Reading of Weather Map of Three Seasons i. Summer ii. Monsoon iii. Winter b. One day visit to nearby weather station of IMD	12
6.	Geographical Data & Measures of Central Tendency	a. Spatial and Temporal data b. Discrete and Continuous series c. Grouped and Ungrouped data d. Meaning and description of central tendencies- Mean, Mode, Median e. Calculation of Mean, Mode, Median for ungrouped and grouped data (two examples each)	12
7.	Measures of dispersion	a. Variance and Standard deviation for ungrouped and grouped data (two examples each)	06
8.	Correlation & Regression Testing of Hypothesis,	a. Correlation and regression i. Concept of bivariate correlation and regression ii. Meaning of coefficient of correlation iii. Calculation of Pearson's Product-Moment iv. Correlation Coefficient (Two examples) v. Calculation of Spearman Rank order vi. Coefficient (Two examples) b. Parametric and Non-parametric tests i. Chi-square test (One-sample case only) ii. Student's t-test (Comparison of sample means)	10
9.	Field Excursion/ Village Survey Report	a. One short tour of two days duration and preparation of tour report OR One long tour of more than five days duration anywhere in the country and preparation of tour report OR Village survey and preparation of report	20

Suggested Reading:

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2. David Unwin, Introductory Spatial Analysis, Methuen, London, 1981.
3. Gregory, S. Statistical Methods and the Geographer, Longman, London, 1978.
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7. Koutsoyiannis, Theory of Econometrics, Macmillan, London, 1973.
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M. S. Kakade College, Solapur, Maharashtra

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14. Peuquet D.J. and D.F. Marble, Introductory Reading in Geographic Information Systems. Taylor & Francis, Washington.1990.
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16. Peter Haggett, Andrew D. Cliff, & Allan Frey, Location Methods Vol. I and II, Edward Arnold, London, 1977.
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20. Sarkar A.:K Practical Geography: A Systematic Approach, Oriental Longman, Calcutta, 1997.
21. Singh, R.L. and Dutt, P.K.: Elements of Practical Geography, Kalyani Publishers, New Delhi,1979
22. Choudhar A. H., Choudhari J. V. Practical Geography, K. S. Publication, Pune (2013).



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SOMESHWAR NAGAR

Class: T.Y.B.A

Medium: (All)

Subject Wise Register (Single Subject) [For A.Y. 2020-2021]

Page 1 of 2

Division Type: G/NG/PNG

Division: (All)

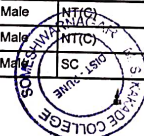
Subject: GEOGRAPHY SPL IV

Subject Code: 3209

Member ID	Roll No.	Student's Name	Mother's Name	Gender	Caste Category	Fee Category	Adm. Date	Div.	Cell No.	Email ID	Last Exam %
15370	1014	KHARAT SAMIR BAPURAO	MANISHA	Male	NT(C)	B.C	28/08/2020	A	7709354631	kharatsamir2509@gmail.com	21.33
14797	1018	BHAGAT KOMAL SATISH	SHOBHA	Female	NT(C)	B.C	28/08/2020	A	9970840246	micropanunit@gmail.com	55.69
14218	1026	BHOSALE AJAY HINDURAO	VIMAL	Male	OPEN	EBC	28/08/2020	A	8381045840	ajaybhosale771@gmail.com	61.23
15419	1030	SASTE GANESH RAJENDRA	CHHAYA	Male	OPEN	EBC	28/08/2020	A	7028445296	ganeshsaste522@gmail.com	66.31
15766	1033	POMANE HARSHAD PRABHAKAR	JAYSHREE	Male	NT(C)	B.C	28/08/2020	A	9689355360	harshadpomane123@gmail.com	58.31
14187	1034	ADSUL CHAITANYA DATTATRAY	RUPALI	Male	OBC	B.C	28/08/2020	A	9172807517	shitolesachin9@gmail.com	52.00
13499	1035	HOLKAR SIDHANT UDAY	POOJA	Male	OBC	B.C	28/08/2020	A	7744946610	holkarsidhant10@gmail.com	47.54
15406	1036	KUMBHAR AKSHADA BHARAT	SUNITA	Female	OBC	B.C	28/08/2020	A	7875751498	kumbharakshada10@gmail.com	56.46
16529	1037	JOJARE JAYSHRI VASANT	SUREKHA	Female	OBC	B.C	28/08/2020	A	9422462295	jojarejayashri10@gmail.com	67.40
15408	1038	KHOMANE TEJASHRI RAVINDRA	MIRABAI	Female	NT(C)	B.C	28/08/2020	A	7768803573	khomanetejashri2000@gmail.com	59.38
15471	1039	JAGTAP GAURI LAXMAN	VIDYA	Female	OPEN	EBC	28/08/2020	A	9765295063	jagtapgauni10@gmail.com	53.08
15947	1040	SHELAR SUSHANT ANIL	SANGITA	Male	OPEN	EBC	28/08/2020	A	8806056382	tusharshelar8055@gmail.com	46.00
15701	1041	HIRAVE SUMIT MADHUKAR	SIMA	Male	OBC	B.C	28/08/2020	A	9763966055	sumithirave910@gmail.com	47.54
16532	1050	BAMANE AKSHADA NANA	MALAN	Female	NT B	B.C	28/08/2020	A	8921844253	bamnakshada12@gmail.com	65.23
16278	1066	JADHAV NIKITA BAPURAV	VAISHALI	Female	VJNT	B.C	01/09/2020	A	7030653679	sachinskshirsagar1@gmail.com	61.54
14228	1074	BADADE YUVRAJ GAJANAN	REKHA	Male	NT B	B.C	04/09/2020	A	9762559545	badadey98@gmail.com	52.77
17453	1079	MANDHARE KOMAL RAJENDRA	SANGITA	Female	OPEN	EBC	08/09/2020	A	8624060831	mandharekomal12@gmail.com	57.00
15594	1083	KUMBHAR SURYAKANT BABURAO	AASHA	Male	OBC	B.C	08/09/2020	A	9503348825	suraj810200@gmail.com	55.08
16427	1100	SHINDE SHUBHAM BALASAHEB	SANGITA	Male	SC	B.C	18/09/2020	A	7887377894	52shubhamshinde@gmail.com	45.85
15596	1105	KOLAPE MAYUR VIJAY	NIRMALA	Female	NT(C)	B.C	18/09/2020	A	9075173355	mayurkola0@gmail.com	50.15
16487	1107	LAKADE KIRAN PRABHAKAR	SHEVANTA	Male	NT(C)	B.C	24/09/2020	A	8975262679	kiranlakade2944@gmail.com	56.31
13716	1108	MORE AKSHAY BHIMRAO	MORE ANITA BHIMRAO	Male	SC	B.C	24/09/2020	A	9850567163	sachinskshirsagar1@gmail.com	21.15

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Subject Wise Register (Single Subject) [For A.Y. 2020-2021]

Page 2 of 2

Member ID	Roll No.	Student's Name	Mother's Name	Gender	Caste Category	Fee Category	Adm. Date	Div.	Cell No.	Email ID	Last Exam %
11677	1126	KADAM ASHWINI BALASO	SUNITA	Female	OPEN	EBC	03/11/2020	B	9545265410	kadamashwini10@gmail.com	44.00
15467	1129	KHARAT ANIL RAMESH	SUSHMA	Male	SC	B.C	17/11/2020	B	7559428065	anikharat101999@gmail.com	44.48
16331	1131	SONAWANE NIKITA RAJU	RAJANI	Female	SC	B.C	01/01/2021	B	7350270358	nikitasonawane@gmail.com	55.00
13638	1134	NEVASE SHUBHAM RAJARAM	MAYA	Male	OBC	B.C	09/02/2021	B	7709929114	nevaseshubham10@gmail.com	42.33
Total 26 records											

Caste Category Summary Report

Caste Category	Male	Female	Total
NT B	1	1	2
NT(C)	4	2	6
OBC	5	2	7
OPEN	3	3	6
SC	3	1	4
VJNT	0	1	1
Total	16	10	26

Fee Category Summary Report

Fee Category	Male	Female	Total
B.C	13	7	20
EBC	3	3	6
	16	10	26


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**BBA (Computer Application)
Equivalence**

Sr. No.	Old Course 2008 Pattern		New Course 2013 Pattern	
	Sub Code	Title of Subject	Sub Code	Title of Subject
01	101	Business Communication	104	Business Communication
02	102	Principles of Management	105	Principles of Management
03	103	Programming Principles and Algorithms	103	Programming Principles & Algorithms
04	104	Computer Fundamental and Office Automation	101	Modern Operating Environment & MS Office
05	105	Business Accounting	102	Financial Accounting
06	106	Computer Laboratory and Practical Work (OA+PPA)	106	Laboratory Course - I [Based on Paper No.101 & 102]
07	201	Organizational Behavior	203	Organizational Behavior
08	202	Elements of Statistics	204	Computer Application in Statistics
09	203	'C' Programming	201	Procedure Oriented Programming Using C
10	204	File Structure and Database Concepts	202	Database Management System
11	205	Cost Accounting	205	E-Commerce Concepts
12	206	Computer Laboratory and Practical Work (c programming + DBMS)	206	Laboratory Course - II [Based on Paper No.201 & 202]
13	301	Numerical Methods	304	Business Mathematics
14	302	Data Structure using C	302	Data Structure using C
15	303	Software Engineering	305	Software Engineering

Page 1 of 3

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16	304	Management Accounting	303	Operating System Concepts
17	305	RDBMS	301	Relational Database Management System
18	306	Computer Laboratory and RDBMS	306	Laboratory Course - III [Based on Paper No,301 and 302]
19	401	Networking	403	Computer Networking
20	402	Visual Basic	402	Programming in Visual Basic
21	403	Inventory Management (SAD)	404	Enterprise Resource Planning
22	404	Human Resource Management	405	Human Resource Management
23	405	Object Oriented Programming using C++	401	Object Oriented Programming using C++
24	406	Computer Laboratory and Practical Work (VB + C++)	406	Laboratory Course - IV [Based on Paper No. 401 & 402]
25	501	.NET Frameworks	503	Dot Net Programming
26	502	Internet Programming and Cyber Law	502	Web Technologies
27	503	Principals of Marketing	504	Object Oriented Software Engineering
28	504	Core Java	501	Java Programming
29	505	Project work (VB)	505	Software Project - [Based on C++/VB Technology]
30	506	Computer Laboratory and Practical Work (.NET + Core Java)	506	Laboratory Course - V [Based on Paper No. 501 & 502]
31	601	E-Commerce	604	Software Testing
32	602	Multimedia Systems	603	Recent Trends in IT
33	603	Introduction to SysPro And Operating Systems	601	Advanced Web Technology


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SOMESHWAR NAGAR

Subject Wise Register (Single Subject) [For A.Y. 2020-2021]

Page 1 of 2

Class: B.B.A.(C.A) III

Division: (All)

Medium: (All)

Division Type: GING/PNG

Subject: Software Project I

Subject Code: 505

Member ID	Roll No.	Student's Name	Mother's Name	Gender	Caste Category	Fee Category	Adm. Date	Div.	Cell No.	Email ID	Last Exam %
16515	6201	MOTE SURAJ CHANGDEV	CHAKABAI	Male	NT(C)	PAYING	06/10/2020	A	8554878818	surajmote900@gmail.com	49.75
16493	6202	BARKADE DNYANESHWAR GOVIND	TAI	Male	NT(C)	PAYING	06/10/2020	A	9786261971	barkaded@gmail.com	52.00
15956	6203	BARKADE RAHUL BALU	SUREKHA	Male	NT(C)	PAYING	06/10/2020	A	8530220195	barkaderahul14399@gmail.com	68.46
16528	6204	KHARAT SWATI SANTOSH	SANGITA	Female	NT(C)	PAYING	06/10/2020	A	7387093428	swatikharat2000@gmail.com	59.38
15400	6205	KARANDE PALLAVI NIVRUTTI	SULOCHANA	Female	OBC	PAYING	06/10/2020	A	9168033011	pallavi@gmail.com	54.92
15410	6206	GAIKWAD PRAKISHA DILIP	URMILA	Female	OPEN	PAYING	06/10/2020	A	7378801481	pratikshagaikwad782000@gmail.com	56.92
15744	6207	KHARAT UMA AMBADAS	RAMKOR	Female	SC	B.C	06/10/2020	A	8888575902	ukhaarats26@gmail.com	64.50
15516	6208	JADHAV ASHWINI SURESH	SHAILA	Female	SC	B.C	06/10/2020	A	9890391719	ashwinis@gmail.com	70.31
14832	6209	BAGADE SAURAV MANIK	SANGITA	Male	SC	B.C	06/10/2020	A	9172862825	heartysurav46@gmail.com	52.77
14917	6211	BAGADE DHANESH BAPU	SUSHILA	Male	SC	B.C	06/10/2020	A	8688577798	chaneshbagaade130@gmail.com	35.00
15393	6212	PATOLE KOMAL MOHAN	SHARADA	Female	SC	B.C	06/10/2020	A	7410104765	komalpatole145@gmail.com	52.46
17516	6213	SONAWALE POOJA BABAN	ANITA	Female	SC	B.C	13/10/2020	A	9787413896	poojasonawale1998@gmail.com	60.00
15422	6214	SHINDE SHUBHAM ANIL	KUNDA	Male	OPEN	PAYING	13/10/2020	A	9049788272	ss1887926@gmail.com	50.62
15424	6215	GOLE ROSHAN ANKUSH	SUNITA	Male	OPEN	PAYING	13/10/2020	A	8698277968	golesarkar1808@gmail.com	61.69
15631	6216	AGAWANE SOURABH VYANKAT	MINAKSHI	Male	SC	B.C	13/10/2020	A	9785513958	sourabhagawane600@gmail.com	52.77
15550	6217	KARNIWAR RUTUJA TANAJI	UJWALA	Female	NT(C)	PAYING	13/10/2020	A	7788867672	karniwarrutu21@gmail.com	65.69
16548	6219	LAKADE PRATIK MAHADEV	MEENA	Male	NT(C)	PAYING	20/10/2020	A	7558315877	pratiklakaade404@gmail.com	64.31
16395	6220	GHORPADE MAYURI SHARAD	ALKA	Female	SC	B.C	27/10/2020	A	7517506387	ghorpademayuri@gmail.com	50.46
16301	6221	PAWAR AKSHAYA SANJAY	RUPA	Female	OPEN	PAYING	27/10/2020	A	9604424310	pawaras176@gmail.com	55.85
17775	6222	SHINDE SHAMBHAVI KAMRAJ	SAPANA	Female	NT B	PAYING	03/11/2020	A	7028389266	shambhavishinde2000@gmail.com	50.17
13043	6223	RAM PRAVINKUMAR SHIVJANAM	RAM SAVITRI SHIVJAI MALE	Female	SC	B.C	03/11/2020	A	7709929950	pravinkar802@gmail.com	46.46
15361	6224	SHINDE SNEHAL RAJENDRA	SHOBHA	Female	OPEN	PAYING	03/11/2020	A	9890068623	snehalshinde@gmail.com	49.07



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MUGUTRAO SAHEBRAO KAKADE COLLEGE,
SOMESHWARNAGAR, TAL. BARAMATI, DIST. PUNE-412306

Co-ordinator
Internal Quality Assurance Cell (IQAC)
M. S. Kakade College, Someshwarnagar

Subject Wise Register (Single Subject) [For A.Y. 2020-2021]

Member ID	Roll No.	Student's Name	Mother's Name	Gender	Caste Category	Fee Category	Adm. Date	Div.	Cell No.	Email ID	Last Exam %
15713	6225	ANPAT MEGHA LAXMAN	SHALAN	Female	OPEN	PAYING	03/11/2020	A	8275692205	meghaanpat277@gmail.com	60.31
15712	6226	ANPAT SWAPNALI ANIL	RUPALI	Female	OPEN	PAYING	03/11/2020	A	9765513958	swapnalianpat2007@gmail.com	52.31
15540	6227	SHINDE PRANAV SHIVDAS	SUVARNA	Male	OPEN	PAYING	17/11/2020	A	7775826295	pranavshinde0707@gmail.com	49.38
15423	6228	SHINDE DNYANESHWAR NAVNATH	NANDA	Male	OPEN	PAYING	17/11/2020	A	9834730507	dnyaneshwarshinde271@gmail.com	47.23
16009	6229	PATOLE OMKAR VILAS	KAVERI	Male	SC	B.C	25/11/2020	A	9325353762	ompatole111@gmail.com	52.15
15449	6230	PATEL ANIKET NATWARLAL	KASTURBEN	Male	OPEN	PAYING	25/11/2020	A	7741040282	akashpate4644@gmail.com	52.92
13546	6231	JAGTAP SIDDHI RAMESH	LINA	Female	OPEN	PAYING	25/11/2020	A	9604188140	siddhijagtap46@gmail.com	45.69
15360	6232	SAWANT POOJA SANJAY	SANGITA	Female	OPEN	PAYING	22/12/2020	A	9890068623	sawantpooja351@gmail.com	50.00
15535	6233	PISAL HARSHADA MANOHAR	SUVARNA	Female	OPEN	PAYING	19/01/2021	A	7397941371	pisalharshada123@gmail.com	54.15
15528	6234	BARGE KOMAL BHARAT	SHAILA	Female	OPEN	PAYING	19/01/2021	A	9921398130	komalbarge1212@gmail.com	52.00
14279	6235	SHINDE TEJAS BHARAT	PRATIBHA	Male	OPEN	PAYING	09/02/2021	A	9762254041	tejas@gmail.com	46.62
16448	6236	SURYAVANSHI PRAJWAL BABASO	CHHAYA	Male	OPEN	PAYING	18/02/2021	A	7066016600	polkd1814@gmail.com	43.38
Total 34 records											

Caste Category Summary Report

Caste Category	Male	Female	Total
NT B	0	1	1
NT(C)	4	2	6
OBC	0	1	1
OPEN	7	9	16
SC	5	5	10
Total	16	18	34

Fee Category Summary Report

Fee Category	Male	Female	Total
B.C	5	5	10
PAYING	11	13	24
Total	16	18	34



[Signature]
Co-ordinator

Internal Quality Assurance Cell (IQAC)
M. S. Kakade College, Someshwarnagar

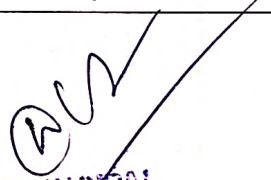
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SOMESHWARNAGAR, TAL. BARAKATI, DIST. PUNE-412306

34	604	Advance Java	602	Advance Java
35	605	Project Work (Banking & Finance, Cost Analysis, Financial Analysis, Payroll, EDP, ERP etc.)	605	Software Project - II [Java/ Dot net Technology]
36	606	Computer Laboratory and Practical Work (Multimedia + Advanced Java)	606	Laboratory Course - VI [Based on Paper No. 601 & 602]


Co-ordinator

Internal Quality Assurance Cell (IQAC)
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SOMESHWARNAGAR, TAL. PARAMATI, DIST. PUNE-412306

MUGUTRAO SAHEBRAO KAKADE COLLEGE
MUGUTRAO SAHEBRAO KAKADE COLLEGE
SOMESHWAR NAGAR

Subject Wise Register (Single Subject) [For A.Y. 2020-2021]

Page 1 of 2

Class: B.B.A.(C.A) III

Medium: (All)

Division Type: G/NG/PNG

Division: (All)

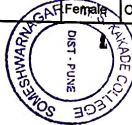
Subject: Software Project II

Subject Code: 605

Member ID	Roll No.	Student's Name	Mother's Name	Gender	Caste Category	Fee Category	Adm. Date	Div.	Cell No.	Email ID	Last Exam %
16515	6201	MOTE SURAJ CHANGDEV	CHAKABAI	Male	NT(C)	PAYING	06/10/2020	A	8554878818	surajmote900@gmail.com	49.75
16493	6202	BARKADE DNYANESHWAR GOVIND	TAI	Male	NT(C)	PAYING	06/10/2020	A	9766261971	barkaded@gmail.com	52.00
15956	6203	BARKADE RAHUL BALU	SUREKHA	Male	NT(C)	PAYING	06/10/2020	A	8530220195	barkaderahul14399@gmail.com	68.46
16528	6204	KHARAT SWATI SANTOSH	SANGITA	Female	NT(C)	PAYING	06/10/2020	A	7387093428	swatikharat2000@gmail.com	59.38
15400	6205	KARANDE PALLAVI NIVRUTTI	SULOCHANA	Female	OBC	PAYING	06/10/2020	A	9168033011	pallavi@gmail.com	54.92
15410	6206	GAIKWAD PRATIKSHA DILIP	URMILA	Female	OPEN	PAYING	06/10/2020	A	7378801461	pratikshagaikwad782000@gmail.com	56.92
15744	6207	KHARAT UMA AMBADAS	RAMKOR	Female	SC	B.C	06/10/2020	A	8888575902	ukhaarats26@gmail.com	64.50
15516	6208	JADHAV ASHWINI SURESH	SHAILA	Female	SC	B.C	06/10/2020	A	9890391719	ashwnis@gmail.com	70.31
14832	6209	BAGADE SAURAV MANIK	SANGITA	Male	SC	B.C	06/10/2020	A	9172862625	heartysurav46@gmail.com	52.77
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16548	6219	LAKADE PRATIK MAHADEV	MEENA	Male	NT(C)	PAYING	20/10/2020	A	7558315877	pratikakade404@gmail.com	64.31
16395	6220	GHORPADE MAYURI SHARAD	ALKA	Female	SC	B.C	27/10/2020	A	7517506387	ghorpademayuri@gmail.com	50.46
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13043	6223	RAM PRAVINKUMAR SHIVJANAM	RAM SAVITA SHIVJAI	Male	SC	B.C	03/11/2020	A	7709929950	pravinrao802@gmail.com	46.46
15381	6224	SHINDE SNEHAL RAJENDRA	SHOBHA	Female	OPEN	PAYING	03/11/2020	A	9890068623	snehalshinde@gmail.com	49.07

Co-ordinator

Internal Quality Assurance Cell (IQAC)
M. S. Kakade College, Someshwarnagar



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Principal
MUGUTRAO SAHEBRAO KAKADE COLLEGE,
SOMESHWARNAGAR, TAL. BARAMATI, DIST. PUNE-412306

Subject Wise Register (Single Subject) [For A.Y. 2020-2021]

Member ID	Roll No.	Student's Name	Mother's Name	Gender	Caste Category	Fee Category	Adm. Date	Div.	Cell No.	Email ID	Last Exam %
15713	6225	ANPAT MEGHA LAXMAN	SHALAN	Female	OPEN	PAYING	03/11/2020	A	8275692205	meghaanpat277@gmail.com	60.31
15712	6226	ANPAT SWAPNALI ANIL	RUPALI	Female	OPEN	PAYING	03/11/2020	A	9785513958	swapnalianpat2007@gmail.com	52.31
15540	6227	SHINDE PRANAV SHIVDAS	SUVARNA	Male	OPEN	PAYING	17/11/2020	A	7775826295	pranavshinde0707@gmail.com	49.38
15423	6228	SHINDE DNYANESHWAR NAVNATH	NANDA	Male	OPEN	PAYING	17/11/2020	A	9834730507	dnyaneshwarshinde271@gmail.com	47.23
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15449	6230	PATEL ANIKET NATWARLAL	KASTURBEN	Male	OPEN	PAYING	25/11/2020	A	7741040282	akashpatel4644@gmail.com	52.92
13546	6231	JAGTAP SIDDHI RAMESH	LINA	Female	OPEN	PAYING	25/11/2020	A	9604188140	siddhijagtap46@gmail.com	45.69
15360	6232	SAWANT POOJA SANJAY	SANGITA	Female	OPEN	PAYING	22/12/2020	A	9890068623	sawantpooja351@gmail.com	50.00
15535	6233	PISAL HARSHADA MANOHAR	SUVARNA	Female	OPEN	PAYING	19/01/2021	A	7397941371	pisalharshada123@gmail.com	54.15
15528	6234	BARGE KOMAL BHARAT	SHAILA	Female	OPEN	PAYING	19/01/2021	A	9921398130	komalbarge1212@gmail.com	52.00
14279	6235	SHINDE TEJAS BHARAT	PRATIBHA	Male	OPEN	PAYING	09/02/2021	A	9762254041	tejas@gmail.com	46.62
16448	6236	SURYAVANSHI PRAJWAL BABASO	CHHAYA	Male	OPEN	PAYING	18/02/2021	A	7066016600	poik1814@gmail.com	43.38

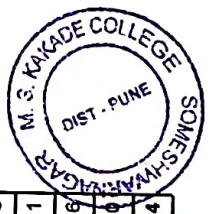
Total 34 records

Caste Category Summary Report

Caste Category	Male	Female	Total
NT B	0	1	1
NT(C)	4	2	6
OBC	0	1	1
OPEN	7	9	16
SC	5	5	10
Total	16	18	34

Fee Category Summary Report

Fee Category	Male	Female	Total
B.C	5	5	10
PAYING	11	13	24
	16	18	34



[Signature]
Co-ordinator
 Internal Quality Assurance Cell (IQAC)
 M. S. Kakade College, Someshwarnagar

CBCS: 2019-2020

S. Y. B.Sc.

Physics



Savitribai Phule Pune University

(Formerly University of Pune)

Second Year B.Sc. Degree Program in Physics

(Faculty of Science & Technology)

S.Y.B.Sc. (Physics)

Choice Based Credit System

To be implemented from Academic Year 2021-2022


Co-ordinator
Internal Quality Assurance Cell (IQAC)
M. S. Kakade College, Someshwarnagar



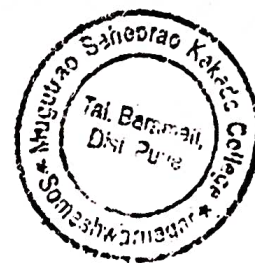

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SOMESHWARNAGAR, TAL. BARAMATI, DIST. PUNE: 412306

Learning Outcome: After completing this practical course students will be able to

- Use various instruments and equipment.
- Design experiments to test a hypothesis and/or determine the value of an unknown quantity.
- Investigate the theoretical background of an experiment.
- Setup experimental equipment to implement an experimental approach.
- Analyze the data, plot appropriate graphs and reach conclusions from data analysis.
- Work in a group to plan, implement and report on a project/experiment.
- Keep a well-maintained and instructive laboratory logbook.

Section-I: Electronics-I/Instrumentation

1. Circuit Theorems (Thevenin's, Norton's and Maximum Power Transfer Theorems)
2. Transistor Characteristics (Input and Output characteristics of CE Configuration)
3. Single Stage Transistor Amplifier
4. Study of Rectifiers (Half, Full Wave and Bridge) with different filters
5. I-V Characteristics of UJT/ UJT as Relaxation Oscillator
6. Zener as a Regulator (Line and Load Regulation)
7. Op-amp as inverting and non-inverting amplifier
8. Study of Wein Bridge / Phase Shift Oscillator using 741
9. Op-amp as an adder and subtractor
10. Study of logic gates and verification of de Morgan's theorems
11. To measure displacement using potentiometer/variable inductor/ variable capacitor
12. Use of CRO (AC/DC Voltage measurement, Frequency measurement)
13. To measure force using load cell
14. To measure pressure using elastic diaphragm (In Variable Capacitor / Bourdon Tube)
15. To measure magnetic field using Hall Probe for a system of ring magnets



Section-II: Use of Computer

1. Plotting of various trigonometric functions using spread sheet/any graphic software viz. Microsoft Excel, Origin: $\sin x$, $\cos x$, $\tan x$, e^{-x} , $\log x$, $\ln x$, x^n
2. Plotting of conic sections using spreadsheet /any graphic software viz. Microsoft Excel, Origin: circle, ellipse, parabola, hyperbola
3. Inverse, determinant of matrix, solution of linear equations using Microsoft Excel or Origin software

Additional Activities (Any two)

1. Plotting of any **two** graphs using spreadsheets (of data obtained from various experiments performed by the student)
2. Any **two** computer aided demonstrations (Using computer simulations or animations)



Savitribai Phule Pune University, Pune (S.Y.B.Sc. Physics, CBCS-Pattern-2021-22)

10

Co-ordinator

Internal Quality Assurance Cell (IQAC)
M. S. Kakade College, Someshwarnagar,

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SOMESHWARNAGAR, TAL. BARAMATI, DIST. PUNE-412306

3. Demonstrations-Any two demonstrations

4. Study tour with report

5. Mini project

Total Experiments to be performed by a student: (A) 10 OR (B) 8 + Two Activities

(A): At least 6 experiments from Section-I and 2 experiments from Section-II

(B): At least 4 experiments from Section-I and 2 experiments from Section-II + Any Two Activities


Co-ordinator
Internal Quality Assurance Cell (IQAC)
M. S. College, Someshwarnagar




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MUGUTRAO SAHEBRAO KAKADE COLLEGE
MUGUTRAO SAHEBRAO KAKADE COLLEGE
SOMESHWAR NAGAR

Class: S.Y.BSC(CREDIT)
Subject: PRACTICAL-I

Medium: (All)

Subject Wise Register (Single Subject) [For A.Y. 2020-2021]

Division Type: GNG/PNG

Subject Code: PH 233

Page 1 of 1
Division: (All)

Member ID	Roll No.	Student's Name	Mother's Name	Gender	Caste Category	Fee Category	Adm. Date	Div.	Cell No.	Email ID	Last Exam %
16717	2201	KADAM GOURI PRALHAD	RANI	Female	OPEN	EBC	04/09/2020	A	9309179668	sachinskshirsagar1@gmail.com	47.85
17801	2215	JADHAV MADHURI SONBA	LAXMI	Female	OBC	B.C	24/09/2020	A	8796819090	sachinskshirsagar1@gmail.com	56.92
16919	2216	KAMBLE SAHIL SHRIKANT	NEHA	Male	SBC	B.C	24/09/2020	A	7559492958	sahilkamble7559@gmail.com	68.00
17653	2221	BADE SEJAL MAHESH	PUSHPA	Female	SBC	B.C	29/09/2020	A	9284843072	sejalbade159@gmail.com	48.92
17144	2223	SHENDKAR VIJAY BALASAHEB	KUSUM	Male	OPEN	EBC	29/09/2020	A	9623163616	vijayshendakar95@gmail.com	46.08
17558	2237	ATTAR TANJILA SHAMID	RESHMA	Female	OBC	B.C	29/09/2020	A	8626091207	tanjilaattar17@gmail.com	34.83
17409	2242	BHANDWALKAR ADINATH RAJENDRA	MANISHA	Male	OBC	B.C	29/09/2020	A	8554033755	tusharbhandwalkar11@gmail.com	72.00
17499	2246	WAGH OMKAR SURESH	JYOTI	Male	OBC	B.C	29/09/2020	A	8551833213	omkarwagh2014@gmail.com	47.69
16898	2247	SIDDHARTH YASHWANT BHAGYWANT	SHAILA	Male	OBC	B.C	29/09/2020	A	9730616354	bhagywantsiddharth02@gmail.com	60.46
16082	2251	PHALKE SURAJ PRATAP	VAISHALI	Male	OPEN	EBC	06/10/2020	A	8766449836	surajphalke2016@gmail.com	55.85
15805	2253	YADAV SANDIP SUNIL	ARUNA	Male	OPEN	EBC	13/10/2020	A	9172193919	sandipyadav453@gmail.com	52.00

Total 11 records

Caste Category Summary Report

Caste Category	Male	Female	Total
OBC	3	2	5
OPEN	3	1	4
SBC	1	1	2
Total	7	4	11

Fee Category Summary Report

Fee Category	Male	Female	Total
B.C	4	3	7
EBC	3	1	4
Total	7	4	11



[Signature]
Coordinator

Internal Quality Assurance Cell (IQAC)
M. S. Kakade College, Someshwarnagar

SavitribaiPhule Pune University

Proposed structure of T. Y. B. Sc. (Physics) revised syllabus

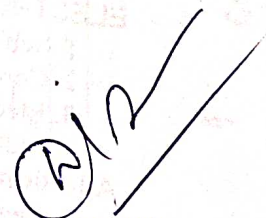
To be implemented from 2014-2015

Sem III	Sem IV
PH-331: Mathematical Methods in Physics II	PH-341 Classical Electrodynamics
PH 332: Solid State Physics	PH-342: Quantum Mechanics
PH-333: Classical Mechanics	PH-343: Thermodynamics and Statistical Physics
PH-334: Atomic and Molecular Physics	PH-344: Nuclear Physics
PH-335: Computational Physics	PH-345: Electronics/Advanced Electronics
PH-336 Elective I : (Select any One)	PH-346 Elective II : (Select any One)
A: Astronomy and Astrophysics	G: Medical Electronics
B: Elements of Materials Science	H: Physics of Nanomaterials
C: Motion Picture Physics	I: Microcontrollers
D: Biophysics	J: Electro Acoustics and Entertainment Electronics
E: Renewable Energy Sources	K: Lasers
F: Applied Optics	L: Radiation Physics
PH-347: Laboratory Course I	
PH-348: Laboratory Course II	
PH-349: Laboratory Course III (Project)	




Co-ordinator

Internal Quality Assurance Cell (IQAC)
M. S. Kakade College, Someshwarnagar


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MUGUTRAO SAHEBRAO KAKADE COLLEGE,
SOMESHWARNAGAR, TAL. BARAMATI, DIST. PUNE-412306

GROUP I

GENERAL PHYSICS (ANY EIGHT)

1. Viscosity of liquid by Rotating cylinder method
2. Moment of Inertia by Bifilar suspension
3. Young's modulus by Newton's rings
4. Young's modulus by Koenig method
5. Determination of wavelength of light by Michelson's interferometer
6. Surface tension liquid by Fergusson method
7. Surface tension of mercury by Quincke's method
8. Hall Effect
9. Energy gap of a semiconductor
10. Study of XRD spectra of any matter
11. Resistivity by Four probe method
12. Platinum resistance thermometer
13. Kater's pendulum
14. Study of forced oscillations by electromagnetically driven simple pendulum
15. Y by vibration of wooden scale
16. Study of damped oscillations of physical pendulum and finding log decrement.

GROUP II

ATOMIC AND MOLECULAR PHYSICS AND OPTICS (ANY TWO)

1. Determination of Rydberg's constant
2. Zeeman Effect
3. Lloyd's mirror
4. Determination of Resolving Power of grating
5. Determination of wavelength by Constant deviation spectrometer
6. Determination of refractive index of liquid using hollow prism.

STATISTICAL PHYSICS AND THERMODYNAMICS (ANY TWO)

1. Verification of Stefan's law by torch bulb filament
2. Thermal conductivity by Forbes Method.
3. Thermal conductivity of rubber tubing
4. Determination of pressure coefficient of air by constant volume thermometer.

NUCLEAR AND QUANTUM MECHANICS (ANY TWO)

1. Characteristics of G.M. tube
2. Inverse square law (γ -rays)
3. e/m by Thomson method
4. Determination of Planck's constant

ELECTROMAGNETISM (ANY TWO)

1. Self Inductance by Anderson's bridge
2. Core losses in transformers
3. Electromagnetic pendulum
4. Inductance by Maxwell's bridge

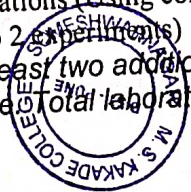
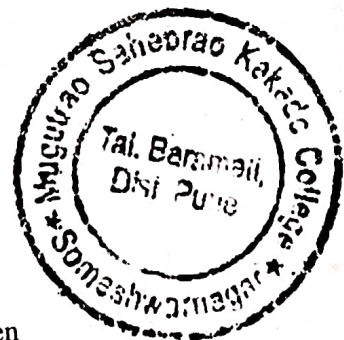
Additional Activities (Any Two)

- a. Demonstrations- Any 4 demonstrations equivalent to 2 experiments
- b. Study tour with report equivalent to 2 experiments
- c. Mini project equivalent to 2 experiments
- d. Computer aided demonstrations (Using computer simulations or animations) (Any 2 demonstrations equivalent to 2 experiments)

Students have to perform at least two additional activities in addition to sixteen experiments mentioned above of total laboratory work with additional activities

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SOMESHWAR NAGAR

Page 1 of 1

Class: T.Y.BSC

Medium: (All)

Subject Wise Register (Single Subject) [For A.Y. 2020-2021]

Division Type: G/NG/PNG

Division: (All)

Subject: LABORATORY COURSE I

Subject Code: PH347

Member ID	Roll No.	Student's Name	Mother's Name	Gender	Caste Category	Fee Category	Adm. Date	Div.	Cell No.	Email ID	Last Exam %
16157	2416	CHAVAN AUDUMBAR DILIP	YOGITA	Male	OPEN	EBC	04/09/2020	A	8308265006	audumbarchavan2018@gmail.com	57.54
15376	2423	JAGTAP DIVYA DATTATRAYA	ARCHANA	Female	OPEN	EBC	18/09/2020	A	8975822443	jagtapdivya2106@gmail.com	54.00
14026	2430	GADEKAR SNEHAL ANIL	SAVITA	Female	OPEN	EBC	24/09/2020	A	7709308865	snehalgsss99@gmail.com	52.46
15851	2439	PAWAR KOMAL JALINDAR	JYOTI	Female	OBC	EBC	29/09/2020	A	9370032112	kornalpawar3556@gmail.com	54.92
14806	2441	JANKAR ANIL BHAGVAN	SHOBHA	Male	NT(C)	B.C	29/09/2020	A	9604549118	jankarani1@gmail.com	55.85
14150	2445	RUPALI MAHADEV MALEKAR	CHANDRKL	Female	OPEN	EBC	29/09/2020	A	9623124454	malekarrupali99@gmail.com	47.08
15746	2447	DIXIT MADHURI MANOJ	CHHAYA	Female	OBC	B.C	29/09/2020	A	7218323250	madhuridixit247@gmail.com	58.00
16477	2478	TORAVE SIDDHESHWAR DHULA	SUREKHA	Male	NT(C)	B.C	06/10/2020	A	9370649223	toravesiddeshwar10@gmail.com	72.92
18642	2481	SUPRIYA PRAKASH WAGHMARE	GANGASAGAR	Female	SC	B.C	13/10/2020	A	8888662731	wsupriya060@gmail.com	0.00
15849	2482	NIKAM PRAKASHA DATTATRAY	CHHAYA	Female	OPEN	EBC	27/10/2020	A	9765513958	nikam8461@gmail.com	49.54
16215	2484	SAWANT GEETANJALI BHKAJI	REKHA	Female	OPEN	EBC	17/11/2020	A	9960475648	micropanunit@gmail.com	35.00

Total 11 records

Caste Category Summary Report

Caste Category	Male	Female	Total
NT(C)	2	0	2
OBC	0	2	2
OPEN	1	5	6
SC	0	1	1
Total	3	8	11

Fee Category Summary Report

Fee Category	Male	Female	Total
B.C	2	2	4
EBC	1	6	7
	3	8	11



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SavitribaiPhule Pune University

Proposed structure of **T. Y. B. Sc. (Physics)** revised syllabus

To be implemented from 2014-2015

Sem III	Sem IV
PH-331: Mathematical Methods in Physics II	PH-341 Classical Electrodynamics
PH-332: Solid State Physics	PH-342: Quantum Mechanics
PH-333: Classical Mechanics	PH-343: Thermodynamics and Statistical Physics
PH-334: Atomic and Molecular Physics	PH-344: Nuclear Physics
PH-335: Computational Physics	PH-345: Electronics/Advanced Electronics
PH-336 Elective I : (Select any One)	PH-346 Elective II : (Select any One)
A: Astronomy and Astrophysics	G: Medical Electronics
B: Elements of Materials Science	H: Physics of Nanomaterials
C: Motion Picture Physics	I: Microcontrollers
D: Biophysics	J: Electro Acoustics and Entertainment Electronics
E: Renewable Energy Sources	K: Lasers
F: Applied Optics	L: Radiation Physics
PH-347: Laboratory Course I	
PH-348: Laboratory Course II	
PH-349: Laboratory Course III (Project) *	




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T. Y. B. Sc. Physics
PH348 Laboratory Course III
Project


It is expected that

1. The student does work equivalent to about twenty laboratory experiments through out both the semesters in the third year.
2. One bears in mind that the project work is a practical course and it is intended to develop a set of skills pertaining to the laboratory work apart from the cognition of students. Therefore, the guides should not permit projects that involve no contribution on part of student.
3. The project must have a clear and strong link with the principles of basic physics and/or their applications.
4. The theme chosen should be such that it promotes better understanding of physics concepts and brings out the creativity in the students.
5. The evaluation of the project work must give due credit to the amount of the project work actually done by a student, skills shown by the student, understanding of the physics concepts involved and the presentation of the final report at the time of viva voce.
6. The viva voce should be conducted at least for thirty minutes per student. Extra care must be taken in the evaluation of projects done in a pair or group. Delegation of the work done by individuals must be sought from the students in such cases.
7. Any ready-made material used in the report (such as downloaded pages from the web) must be clearly referred to and acknowledged.

Time schedule for project work:

- (1) Allotment of Internal guide by 30th July
- (2) Submission of synopsis by 14th August
- (3) Project work revision – every week
- (4) First draft by 15th February
- (5) Final report submission by 5th March.

Any non-adherence to this norm should attract a penalty by way of deduction in the marks awarded to a student. It is recommended that the College will provide consumables/contingencies for every project, to the tune of Rs. 500/- each. It is also recommended that a teacher will look after 4 projects at one time.


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SOMESHWAR NAGAR

Class: T.Y.BSC

Medium: (All)

Subject Wise Register (Single Subject) [For A.Y. 2020-2021]

Page 1 of 1

Division Type: G/NG/PNG

Division: (All)

Subject: LABORATORY COURSE II

Subject Code: PH348

Member ID	Roll No.	Student's Name	Mother's Name	Gender	Caste Category	Fee Category	Adm. Date	Div.	Cell No.	Email ID	Last Exam %
16157	2416	CHAVAN AUDUMBAR DILIP	YOGITA	Male	OPEN	EBC	04/09/2020	A	8308265006	audumbarchavan2018@gmail.com	57.54
15376	2423	JAGTAP DIVYA DATTATRAYA	ARCHANA	Female	OPEN	EBC	18/09/2020	A	8975822443	jagtapdivya2106@gmail.com	54.00
14026	2430	GADEKAR SNEHAL ANIL	SAVITA	Female	OPEN	EBC	24/09/2020	A	7709308865	snehalgsss99@gmail.com	52.46
15851	2439	PAWAR KOMAL JALINDAR	JYOTI	Female	OBC	EBC	29/09/2020	A	9370032112	komalpawar3558@gmail.com	54.92
14806	2441	JANKAR ANIL BHAGVAN	SHOBHA	Male	NT(C)	B.C	29/09/2020	A	9604549118	jankarani1@gmail.com	55.85
14150	2445	RUPALI MAHADEV MALEKAR	CHANDRILA	Female	OPEN	EBC	29/09/2020	A	9623124454	malekarrupali99@gmail.com	47.08
15746	2447	DIXIT MADHURI MANOJ	CHHAYA	Female	OBC	B.C	29/09/2020	A	7218323250	madhurdixit247@gmail.com	58.00
16477	2478	TORAVE SIDDHESHWAR DHULA	SUREKHA	Male	NT(C)	B.C	06/10/2020	A	9370649223	toravesiddeshwar10@gmail.com	72.92
18642	2481	SUPRIYA PRAKASH WAGHMARE	GANGASAGAR	Female	SC	B.C	13/10/2020	A	8888662731	wsupriya060@gmail.com	0.00
15849	2482	NIKAM PRATIKSHA DATTATRAY	CHHAYA	Female	OPEN	EBC	27/10/2020	A	9765513958	nikam8461@gmail.com	49.54
16215	2484	SAWANT GEETANJALI BHKAJI	REKHA	Female	OPEN	EBC	17/11/2020	A	9960475648	micropanunit@gmail.com	35.00

Total 11 records

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Fee Category Summary Report

Fee Category	Male	Female	Total
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Savitribai Phule Pune University [SPPU]

B.Sc. (Chemistry)

(Three Years Integrated Degree Program)

Choice Based Credit System [CBCS]

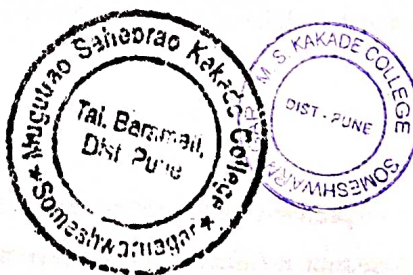
2019 Pattern

Second Year Bachelors of Science

(S. Y. B. Sc.)

From Academic Year

2020-21



Board of Studies in Chemistry
Savitribai Phule Pune University [SPPU]
Pune-411007

Savitribai Phule Pune University (SPPU), Pune

1 | 33

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Internal Quality Assurance Cell (IQAC)
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Structure of S. Y. B. Sc. Chemistry

(According to CBCS – 2019 Pattern of SPPU)

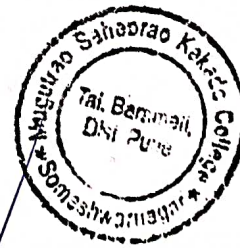
Semester	Course	Discipline Specific Core (DSCC)*
III	Theory	CH-301 : Physical and Analytical Chemistry (2 credit, 36 L)
	Theory	CH-302 : Inorganic and Organic Chemistry (2 credit, 36 L)
	Practical	CH-303 : Chemistry Practical - III (2 credit, 72 L)
IV	Theory	CH-401 : Physical and Analytical Chemistry (2 credit, 36 L)
	Theory	CH-402 : Inorganic and Organic Chemistry (2 credit, 36 L)
	Practical	CH-403 : Chemistry Practical - IV (2 credit, 72 L)

*Important Notice:

- i. Each lecture (L) will be of 50 minutes.
- ii. Each practical of 4 hours and 12 practical sessions per semester
- iii. 12 weeks for teaching 03 weeks for evaluation of students (theory as well as practical).
- iv. For details refer UG rules and regulations (CBCS for Science program under Science & Technology) published on SPPU website.

Evaluation Pattern (As per CBCS rules, SPPU 2019 Pattern)

1. Each theory and practical course carry 50 marks equivalent to 2 credits.
2. Each course will be evaluated with Continuous Assessment (CA) and University Assessment (UA) mechanism.
3. Continuous assessment shall be of 15 marks (30%) while university Evaluation shall be of 35 marks (70%).
4. To pass each course, a student has to secure 40% mark in continuous assessment as well as university assessment i.e. 6 marks in continuous assessment and 14 marks in university assessment for the respective course.
5. For Continuous Assessment (internal assessment) minimum two tests per paper must be organized, of which one must be written test of 10 marks.
6. Method of assessment for internal exams: Viva-Voce, Project, survey, field visits, tutorials, assignments, group discussion, etc. (on approval of the head of centre).



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CH-403:

Practical Chemistry-IV

[2 credit, 72* L]

* 72 L will be distributed as 58 L performing practical and 14 L for internal evaluation.

Instructions:

1. Use molar concentrations for volumetric /estimations/synthesis experiments.
2. Use optimum concentrations and volumes
3. Two burette method should be used for volumetric analysis (Homogeneous Mixtures)
4. Use of Microscale technique is recommended wherever possible.

A. Conductometry (Compulsory)

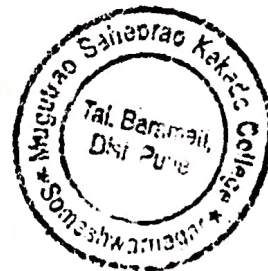
- a) To determine the cell constant of the given cell using 0.01 M KCl solution and determine dissociation constant of a given monobasic weak acid.
- b) To investigate the conductometric titration of any one of the following a) Strong acid against strong base b) Strong base against weak acid. (*standardization of base must be performed with KIIP*)

B. Chromatography (compulsory)

1. Separation of binary mixture of cations by Column Chromatography by ion exchange resins / cellulose (any one mixture) (Co + Al, Cu + Mg, Zn+Mg). Separation of cations must be confirmed by qualitative test

References:

- i. Vogel's Textbook Quantitative Chemical Analysis, 3rd, 6th Ed.
- ii) Experiments in chemistry, D. V. Jahagirdar, Himalaya publication.

**C. Ideal and Real solutions (Any two)**

1. To study the variation of mutual solubility temperature with % concentration for the phenol - water system
2. To study the effect of added electrolyte on the critical solution temperature of phenol-water system and to determine the concentration of the given solution of electrolyte.
3. To obtain the temperature-composition phase diagram for a two component liquid system with maximum (or minimum) boiling point and to determine the maximum (or minimum) boiling point and composition.

D. Adsorption (Compulsory)

1. To verify the Freundlich and Langmuir adsorption isotherm for adsorption of acetic acid on activated charcoal.

References:

Savitribai Phule Pune University (SPPU), Pune

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M. S. Kakade College, Someshwarnagar
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SOMESHWARNAGAR, TAL. BARAMATI, DIST. PUNE: 412306

- i) Systematic experimental physical chemistry, S. W. Rajbhoj, T. K. Chondekar, Anjali publication.
- ii) Practical Physical Chemistry, Vishwanathan and Raghwan, Viva book.
- iii) Practical Chemistry, O. P. Pandey, D. N. Bajpai Dr. S. Giri, S Chand Publication

E. Synthesis of Coordination compounds (any two)

1. Synthesis of sodium cobaltinitrite (a laboratory chemical) from Co(II) salt and NaNO_2 salts. Comment on colour and magnetic properties of the complex. (Ref.-1, 2)
2. Synthesis of potassium Tris(oxalate)aluminium(III) using Al metal powder(Scrap aluminium). Comment on colour and magnetic properties of the complex. (Ref-2, 3, 4)
3. Synthesis of Tris(acetylacetonate)iron(III) by green chemistry method by reaction between $\text{Fe}(\text{OH})_3$ and acac. Comment on colour and magnetic properties of the complex. (Ref.- 5,6).
4. Synthesis of Tris(ethylenediamine)nickel(II) from Ni(II) salt, ethylenediamine and sodium thiosulfate. Comment on colour and magnetic properties of the complex. (Ref.-7)

F. Inorganic colorimetric investigations (Any two)

1. Prepare standard solutions of KMnO_4 / CuSO_4 , record their absorbance and Verify Beer's Law and determine unknown concentration. (Compulsory)
2. Prepare solution of Fe(III) and SCN^- of in different molar proportion, record their absorbance and calculate equilibrium constant of $[\text{Fe}(\text{SCN})]^{2+}$ complex (Ref.-9,10)
3. Prepare solution of Fe(III)/Cu(II) and salicylic acid in different molar proportion and determine metal ligand ratio in Fe(III) or Cu(II)-Salicylic acid complex. (Ref.-11, 12, 13)

References

1. Handbook of Preparative Inorganic Chemistry, Volume 2, Second Edition, Edited By Georg Brauer, Academic Press, New York, London, 1965. (Page-1541)
2. Practical Chemistry, Pandey, Bajpai, Giri, S.Chand and Co.
3. McNeese, T.J.; Wierda, D.A. Synthesis of Potassium Tris(oxalato)aluminum(III) Trihydrate. *Journal of Chemical Education*, 1983, 60(11), 1001.
4. Inorganic Syntheses Vol -1 by I I S Booth. First Ed, 1939. (page-36).
5. Novel Synthesis of Tris(acetylacetonato)-iron(III), *Journal of Chem. Soc. Dalton Trans.* 1983
6. Metal Acetylacetonate Synthesis Experiments: Which Is Greener?, *Journal of Chemical Education*, 2011, 88, 947-953, dx.doi.org/10.1021/ed100174f



7. Experimental Inorganic/Physical Chemistry: An Investigative, Integrated Approach to Practical Project Work, Mounir A. Malati, Woodhead Publishing Limited, 1999.
8. Vogel's Textbook Quantitative Chemical Analysis, 6th Ed.
9. Colorimetric Determination of the Iron(III)-Thiocyanate Reaction Equilibrium Constant with Calibration and Equilibrium Solutions Prepared in a Cuvette by Sequential Additions of One Reagent to the Other, *Journal of Chemical Education*, Vol.88 No.3 March 2011.
10. Experiments in chemistry, D. V. Jahagirdar, Himalaya publication.
11. A spectrophotometric study of complex formation between Fe(III) and salicylic acid, Kinya Ogawa, Nobuko Tobe, Bulletin of chemical society of Japan, 39, 227-232, 1966.
12. Salicylate determination by complexation with Fe(III) and optical absorbance spectroscopy
13. Determination of Equilibrium Constants of Metal Complexes from Spectrophotometric Measurements: An Undergraduate Laboratory Experiment, *Journal of Chemical Education*, Vol. 76, No. 9, September 1999.

G. Organic Estimations (any two)

1. **Determination of molecular weight:** Determination of molecular weight of organic acid by titration against standardized NaOH - a) monobasic acid or b) dibasic acid
2. **Estimation of amides:** Determine the amount of acetamide in given solution by volumetric method. (Standardization of acid must be performed)
3. **Estimation of Ethyl benzoate:** To determine the amount of ethyl benzoate in given solution volumetrically. (Standardization of acid must be performed).

References:

- i) Vogel's textbook of practical organic chemistry
- ii) Comprehensive Practical Organic Chemistry by V.K. Ahluwalia and Renu Aggarwal

Examination Pattern: At the time of examination student has to perform one experiment either from inorganic sections or organic section. 50% students must be assigned inorganic chemistry and 50% organic chemistry experiment. In case of organic qualitative analysis, after separation of binary mixture any one compound has to be analysed. Distribution of or 35 marks: 30 marks for experimental performance and 5 mark for oral.

Section - C: Industrial Visit

Visit any Chemical / Pharmaceutical / Polymer / Research Institutes / Sugar Factories / waste water treatment plant, etc. and submit report.

Learning Outcomes

1. Verify theoretical principles experimentally



2. Interpret the experimental data on the basis of theoretical principles.
 3. Correlate the theory to the experiments. Understand / verify theoretical principles by experiment or explain practical output with the help of theory.
 4. Understand systematic methods of identification of substance by chemical methods.
 5. Write balanced equation for all the chemical reactions performed in the laboratory.
 6. Perform organic and inorganic synthesis and able to follow the progress of the chemical reaction.
 7. Set up the apparatus properly for the designed experiments.
 8. Perform the quantitative chemical analysis of substances and able to explain principles behind it.
-




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SOMESHWAR NAGAR

Subject Wise Register (Single Subject) [For A.Y. 2020-2021]

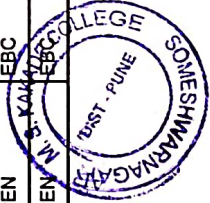
Medium: (All)

Class: S.Y.BSC(CREDIT)
Subject: CHEMISTRY PRACTICAL-II

Division Type: G/NG/PNG

Subject Code: CH 403

Member ID	Roll No.	Student's Name	Mother's Name	Gender	Caste Category	Fee Category	Adm. Date	Div.	Cell No.	Email ID	Last Exam %
16896	2202	DIXIT NEHA GOPAL	ASHA	Female	OBC	B.C	04/09/2020	A	7083341864	sachinskshirsagar1@gmail.com	50.46
17683	2204	MIND ISHWARI SOMNATH	VISHRANTI	Female	NT(C)	B.C	04/09/2020	A	9373777254	sachinskshirsagar1@gmail.com	56.46
16341	2206	SHINDE BHAUSAHEB HARIDAS	SHALAN	Male	NT(C)	B.C	04/09/2020	A	9503250210	shindebhausaheb10@gmail.com	53.69
16897	2210	TAKAWALE ARTI VIJAY	KAVITA	Female	OPEN	B.C	18/09/2020	A	9921116270	sachinskshirsagar1@gmail.com	61.38
14770	2211	BICHUKALE RUTUJA BHAGWAN	REKHA	Female	NT(C)	B.C	18/09/2020	A	7057654395	sachinskshirsagar1@gmail.com	47.23
16073	2212	MIND ANIKET ASHOK	SUVRNA	Male	NT(C)	B.C	18/09/2020	A	8669457018	aniketmind6@gmail.com	50.46
16676	2214	KUMBHAR ASHLESHA TANAJI	VAISHALI	Female	OBC	B.C	24/09/2020	A	9049656987	ashleshak99@gmail.com	60.00
17633	2217	WALKUNDE SWAPNALI ARUN	SUNITA	Female	NT(C)	B.C	24/09/2020	A	7219149092	walkundeswapnali10@gmail.com	52.00
17407	2218	MOTE SONALI GULAB	SARIKA	Female	NT(C)	B.C	24/09/2020	A	8390577622	sonalimote17@gmail.com	60.77
17251	2219	JAGTAP SHITAL CHHOTUSAHEB	MANISHA	Male	OPEN	EBC	24/09/2020	A	7387761458	aniketjagtap2908@gmail.com	52.00
16895	2220	SANKPAL AKANKSHA SATISH	ASHA	Female	OPEN	B.C	24/09/2020	A	7499511131	sachinskshirsagar1@gmail.com	57.54
17471	2222	DHANANJAY SAYBU GALANDE	JANABAI	Male	NT(C)	B.C	29/09/2020	A	7083754325	galandedhananjay12@gmail.com	57.54
16777	2224	GAIKWAD GANESH DATTATRAY	UJJWALA	Male	OPEN	EBC	29/09/2020	A	7448016061	gaikwadganesh3223@gmail.com	58.77
17690	2225	DOIPHODE AMIT SUNIL	VARSHA	Male	NT(C)	B.C	29/09/2020	A	7887609305	amit.doiph4444@gmail.com	15.00
17134	2226	PATOLE OMKAR ASHOK	MANISHA	Male	SC	B.C	29/09/2020	A	9604985469	kunalpatole2526@gmail.com	49.85
17464	2228	KHOMANE OMKAR BHAGWAN	SHALAN	Male	VJA	B.C	29/09/2020	A	9766108759	omkarkhokane24734@gmail.com	49.85
17248	2229	SAWANT GOURI DILIP	SHILPA	Female	OPEN	EBC	29/09/2020	A	9765139230	sachinskshirsagar1@gmail.com	56.62
17627	2230	POKALE TUSHAR BALASO	PREMA	Male	NT(C)	B.C	29/09/2020	A	9168018961	tusharpokale99@gmail.com	50.00
16899	2231	DESAI SHRIHARI DATTATRAY	GAURI	Male	SC	B.C	29/09/2020	A	9284579516	shriharidesai143@gmail.com	55.38
17391	2232	LADKAT SAURABH SANJAY	SUNITA	Male	OBC	B.C	29/09/2020	A	9766989422	ladkatsaurabh3171@gmail.com	45.85
17585	2233	GAMBHIRE RUPESH RAMESH	MEENA	Male	OPEN	EBC	29/09/2020	A	7219272778	gambhirerr@gmail.com	45.54
17668	2235	MANDKE VIJAY PRAMOD	MANISHA	Male	OPEN	EBC	29/09/2020	A	9763979879	vijaymandake1@gmail.com	57.23



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Internal Quality Assurance Cell (IQAC)
M. S. Kakade College, Someshwar Nagar

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SOMESHWAR NAGAR, TAL. BARAMATI, DIST. PUNE-412306

Subject Wise Register (Single Subject) [For A.Y. 2020-2021]

Member ID	Roll No.	Student's Name	Mother's Name	Gender	Caste Category	Fee Category	Adm. Date	Div.	Cell No.	Email ID	Last Exam %
17389	2236	MOHITE OMKAR SURYAKANT	REKHA	Male	OPEN	EBC	29/09/2020	A	8378895800	omkarmohite346@gmail.com	61.85
17289	2238	GADADE AVADHUT TANAJI	SAVITA	Male	OBC	B.C	29/09/2020	A	8007269483	audhutgadade878@gmail.com	47.26
16770	2239	GORE NIKHIL SHASHIKANT	JAYSHREE	Male	OBC	B.C	29/09/2020	A	9579031837	gorenikhil02@gmail.com	55.23
17373	2240	TENGAL ANIKET SUNIL	ASHA	Male	NT(C)	B.C	29/09/2020	A	9022702442	tengaleaniket15@gmail.com	46.76
15086	2241	SOLANKAR DHANANJAY BALASO	SAVITA	Male	NT(C)	B.C	29/09/2020	A	8412087626	sachinskshirsagar1@gmail.com	53.23
17287	2243	HAKH OMKAR SAMBHAJI	VAISHALI	Male	NT(C)	B.C	29/09/2020	A	7218723698	omkarhake0707@gmail.com	48.62
16843	2244	KHAMGAL AJAY RAMESH	BABY	Male	NT(C)	B.C	29/09/2020	A	9637280785	ajaykhamgal45@gmail.com	52.15
17663	2245	BOKIL PRAJWAL PRASHANT	PRAJAKTA	Male	OPEN	EBC	29/09/2020	A	7057150146	bokilprajwal9@gmail.com	63.38
17772	2248	THOKALE ANIKET AMOD	ANJANA	Male	SC	B.C	29/09/2020	A	7875082749	aniketthokale268@gmail.com	64.46
15556	2249	JAGTAP SUMEET BANTI	VAISHALI	Male	OPEN	EBC	29/09/2020	A	7775024465	jagtap@gmail.com	42.77
16861	2250	YELE MAHESH SHIVAJI	RANI	Male	NT(C)	B.C	06/10/2020	A	9637154604	sachinskshirsagar1@gmail.com	49.54
16890	2252	THOMBARE RUSHIKESH HANUMANT	PUSHPA	Male	NT(C)	B.C	06/10/2020	A	9146093776	rushikeshthombare2019@gmail.com	55.38
16517	2254	GAIKWAD GAURI GORAKH	VANITA	Female	SC	B.C	03/11/2020	A	9545117768	sachinskshirsagar1@gmail.com	50.08
17796	2255	PANGAREKAR SHIVAM SUBHASH	RAUBAI	Male	SC	B.C	03/11/2020	A	8766967492	shivam@gmail.com	65.38
17809	2257	CHAVAN DIGVIJAY AMARSINH	DHANASHRI	Male	OPEN	EBC	25/11/2020	A	9022064548	chavandigvijay12@gmail.com	60.62
17587	2258	JADHAV PRATHAM BALASAHEB	PUSHPA	Male	OPEN	EBC	01/01/2021	A	9021638691	prathamjadhav4444@gmail.com	43.85

Total 38 records

Caste Category Summary Report

Caste Category	Male	Female	Total
NT(C)	11	4	15
OBC	3	2	5
OPEN	9	3	12
SC	4	1	5
VJ A	1	0	1
Total	28	10	38

Fee Category Summary Report

Fee Category	Male	Female	Total
B.C	19	9	28
EBC	9	1	10
Total	28	10	38



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Internal Quality Assurance Cell (IQAC)
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Savitribai Phule Pune University, Pune

T.Y.B.Sc. Chemistry Syllabus

To be implemented from June 2015

(Academic Year 2015-16)

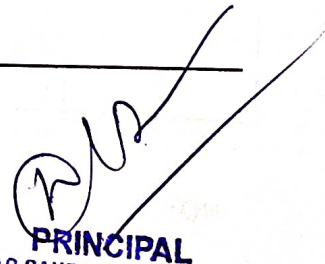
Preamble of the Course

1. T.Y.B.Sc. Chemistry is consisting of six theory and three practical courses.
2. Each theory course is of 48 lectures; 4 lectures per course per week should be conducted in every semester.
3. Out of five optional courses recommended for CH-336 and CH-346, only one option should be taught and the same course should be implemented for the next semester.
4. Each practical course is of 4 lectures per week per batch. Practical batch for each course should comprise of 12 students only.
5. Each theory paper will carry 50 Marks out of which 10 Marks will be allotted for Internal assessment and University Examination will be conducted for 40 Marks at the end of each semester.
6. The practical examination of six hours for each practical course will be conducted at the end of Semester-IV. Each practical course will carry 100 Marks out of which 20 Marks will be allotted for Internal assessment and University Examination will be conducted for 80 Marks.
7. **Marks for internal assessment of Practical courses will be allotted as follows.**
 - a. Completed and Certified journal and regularity of the student 10 Marks
 - b. Oral Examination and Internal Test 10 Marks
8. Internal assessment for theory courses will be done on the basis of the performance of the student in tests. Minimum two tests should be arranged for each course in a Semester.
9. **Visit to a chemical industry may be organized during the academic year.**


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**Internal Quality Assurance Cell (IQAC)
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PRINCIPAL

**MUGUTRAO SAHEBRAO KAKADE COLLEGE,
SOMESHWARNAGAR, TAL. BARAMATI, DIST. PUNE: 412306**

Savitribai Phule Pune University
Board of Studies in Chemistry
T.Y.B.Sc. Chemistry Syllabus

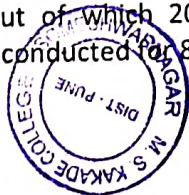
Structure to be implemented from June 2015 (i.e. from Academic Year 2015-16)

Semester	Course Code and Title	Number of Lectures	Marks
Semester III	CH-331: Physical Chemistry	48	50
	CH-332: Inorganic Chemistry	48	50
	CH-333: Organic Chemistry	48	50
	CH-334: Analytical Chemistry	48	50
	CH-335: Industrial Chemistry	48	50
	OPTIONAL COURSE CH-336-A Nuclear ChemistryOR CH-336-B Polymer ChemistryOR CH-336-C Introduction to Biochemistry and Molecular Biology OR CH-336-D Environmental and Green ChemistryOR CH-336-E Agriculture Chemistry	48	50
Semester IV	CH-341: Physical Chemistry	48	50
	CH-342: Inorganic Chemistry	48	50
	CH-343: Organic Chemistry	48	50
	CH-344: Analytical Chemistry	48	50
	CH-345: Industrial Chemistry	48	50
	OPTIONAL COURSE CH-346-A Nuclear ChemistryOR CH-346-B Polymer ChemistryOR CH-346-C Introduction to Biochemistry and Molecular Biology OR CH-346-D Environmental and Green ChemistryOR CH-346-E Dairy Chemistry	48	50
	PRACTICAL COURSES		
	CH-347: Physical Chemistry Practicals		100
	CH-348: Inorganic Chemistry Practicals		100
	CH-349: Organic Chemistry Practicals		100

NOTE

1. Each theory paper will carry 50 Marks out of which 10 Marks will be allotted for internal assessment and University Examination will be conducted for 40 Marks at the end of each semester.

2. The practical examination will be conducted at the end of Semester-IV. Each practical course will carry 100 Marks out of which 20 Marks will be allotted for internal assessment and University Examination will be conducted for 80 Marks.



[Signature]
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 Internal Quality Assurance Cell (IQAC)
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 SOMESHWARNAGAR, TAL. BARAMATI, DIST. PUNE-412306

CH-348 - INORGANIC CHEMISTRY PRACTICALS

A) Gravimetric estimations (Any 3)

1. Fe as Fe_2O_3
2. Nickel as Ni – DMG
3. Al as Aluminum oxide
4. Gravimetric estimation of Ba as BaSO_4 using homogeneous precipitation method.

B) Volumetric Estimations (Any 4)

1. Mn by Volhard's method
2. Estimation of NO_2^- by using KMnO_4 .
3. Estimation of % purity of given sample of Sodium Chloride
4. Analysis of Brass-Estimation of copper by Iodometry
5. Fertilizer analysis (PO_4^{3-})

C) Inorganic preparations (Any 4)

1. Preparation of Hexamminenickel(II), $[\text{Ni}(\text{NH}_3)_6]^{2+}$.
2. Preparation of Potassium Trioxalatoferate (III), $\text{K}_3[\text{Fe}(\text{C}_2\text{O}_4)_3]$.
3. Preparation of Tetraamminecopper (II) sulphate, $[\text{Cu}(\text{NH}_3)_4]\text{SO}_4$.
4. Preparation of Manganese (III) acetylacetonate $[\text{Mn}(\text{acac})_3]$.
5. Preparation of Tris(Thiourea)Copper (I) Chloride $[\text{Cu}(\text{Thiourea})_3]\text{Cl}$.

D) Colorimetric Estimations (Any 2)

1. Iron by thiocyanate method.
2. Cobalt by using R-nitroso salt method.
3. Titanium by H_2O_2 .

E) Separation of binary mixture of cations by Column Chromatography (3 mixtures) (One mixture should be colorless, Zn + Al, Zn + Mg)

OR

E) Flame Photometry (Any 3)

1. Estimation of Na by flame photometry by calibration curve method.
2. Estimation of Na by flame photometry by regression method.
3. Estimation of K by flame photometry by calibration curve method.
4. Estimation of K by flame photometry by regression method.

F) Qualitative Analysis (4 mixtures including Borates and Phosphates)

G) Visit to a chemical industry and report writing is compulsory.

- Reference Books: Ref. 1 General Chemistry Experiment – Anil J Elias (University press).
Ref. 2 Vogel Textbook of Quantitative Chemical Analysis G.H. Jeffery, J. Basset.
Ref. 3 Quantitative Chemical Analysis S. Sahay (S. Chand & Co.).
Ref. 4 Quantitative Analysis R.A. Day, Underwood (Prentice Hall).
Ref. 5 Practical Chemistry K.K. Sharma, D. S. Sharma (Vikas Publication).
Ref. 6 Vogel's Textbook of Quantitative Chemical Analysis.
Ref. 7 Monograph on Green Chemistry Laboratory Experiments by Green Chemistry Task Force Committee, DST.
Ref. 8 "Experimental Methods in Inorganic Chemistry." Tanaka, J. and Suib, S.L., Prentice Hall, New Jersey, 1999.


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MUGUTRAO SAHEBRAO KAKADE COLLEGE
MUGUTRAO SAHEBRAO KAKADE COLLEGE
SOMESHWAR NAGAR

Class: T.Y.BSC

Medium: (All)

Subject Wise Register (Single Subject) [For A.Y. 2020-2021]

Page 1 of 3

Division Type: G/NG/PNG

Division: (All)

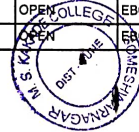
Subject: INORGANIC CHEMISTRY PRACT

Subject Code: CH348

Member ID	Roll No.	Student's Name	Mother's Name	Gender	Caste Category	Fee Category	Adm. Date	Div.	Cell No.	Email ID	Last Exam %
16038	2402	SHINDE AMRUTA KIRAN	SHINDE SAVITA KIRA	Female	NT(C)	B.C	01/09/2020	A	9923735607	shindeamruta764@gmail.com	54.92
16291	2403	SHINDE DIVYANK DIPAK	NITA	Male	OPEN	EBC	01/09/2020	A	9921867516	divyankshinde2016@gmail.com	81.23
15703	2404	KAKADE SHIVRAJ SATISH	SHUBHANGI	Male	OPEN	EBC	01/09/2020	A	9921586360	shivkakade18@gmail.com	58.92
15717	2405	JAGTAP AKASH SANJAY	MADHURI	Male	OBC	B.C	01/09/2020	A	9960592234	akashjagtap050077@gmail.com	56.46
15759	2406	PANSARE FARUKH HARUN	LATIFA	Male	OPEN	B.C	01/09/2020	A	9730797931	farukpansare6503@gmail.com	50.15
16380	2409	NARUTE ANAGHA SARJERAO	LATA	Female	NT(C)	B.C	04/09/2020	A	8308893468	anaghanarute999@gmail.com	60.31
15879	2410	ADSUL SHWETA SUBHASH	NANDA	Female	OBC	B.C	04/09/2020	A	9096847644	shwetaadsul2000@gmail.com	71.38
15644	2411	GOLE PRASAD MARUTI	USHA	Male	OPEN	EBC	04/09/2020	A	9325408368	prasadgole83@gmail.com	68.83
15653	2412	KHATAL SANKET TANAJI	RAJASHRI	Male	NT(C)	B.C	04/09/2020	A	9325838578	sankethatal27@gmail.com	355.00
16125	2413	HARIHAR SANKET SANJAY	ANITA	Male	NT B	B.C	04/09/2020	A	9096476424	sankethanhar330@gmail.com	50.77
16128	2414	SONAWANE PRASHALI PRAMOD	SHAILA	Female	OPEN	EBC	04/09/2020	A	9921531073	sonawaneprashali14@gmail.com	57.38
16439	2415	NIGADE PRATHAMESH ROHIDAS	NANDA	Male	OPEN	EBC	04/09/2020	A	7038804107	pnigade2000@gmail.com	60.00
16000	2419	HULAGE SAYALI SANJAY	MANISHA	Female	NT(C)	B.C	18/09/2020	A	7391009758	sayalihilage@gmail.com	68.77
15145	2422	KAMBALE AVINASH UMESH	KAVITA	Male	OBC	B.C	18/09/2020	A	8975737547	aukambale11@gmail.com	41.85
15810	2424	KOLEKAR DIVYA SUBHASH	VAISHALI	Female	NT(C)	B.C	18/09/2020	A	9527704357	divyakolekar35@gmail.com	54.48
15434	2425	SURYAVANSHI RUTUJA DNYANESHWAR	UJJWALA	Female	OPEN	EBC	18/09/2020	A	8975550289	rutujasuryawanshi02@gmail.com	66.30
16337	2426	GADADARE AMRUTA BALASO	LATA	Female	NT(C)	B.C	24/09/2020	A	9763655760	gadadareamruta02@gmail.com	55.38
15756	2427	KARANJE NISHA JITENDRA	KARANJE SANGITA J	Female	NT B	B.C	24/09/2020	A	9890635511	nitinvkaranje027@gmail.com	55.69
16293	2428	SONAWANE SAMPADA PRASAD	RUPALI	Female	SC	B.C	24/09/2020	A	9730287359	sonawanesampada@gmail.com	58.77
15730	2429	KOLTE NIKITA DATTATRAY	SHALAN	Male	OPEN	EBC	24/09/2020	A	9766910686	pramodkolate96@gmail.com	55.23
15777	2431	SHAIKH AMAN SHARIF	NILOFAR	Male	OPEN	EBC	24/09/2020	A	7410110290	shaikhaman146@gmail.com	54.15
16130	2432	DHUMAL ABHISHEK RAVINDRA	HEMLATA	Male	OPEN	EBC	24/09/2020	A	8975823936	atharvedhumal21@gmail.com	57.07

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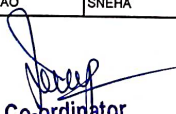
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SOMESHWARNAGAR, TAL. BARAMATI, DIST. PUNE-412306

Subject Wise Register (Single Subject) [For A.Y. 2020-2021]

Page 2 of 3

Member ID	Roll No.	Student's Name	Mother's Name	Gender	Caste Category	Fee Category	Adm. Date	Div.	Cell No.	Email ID	Last Exam %
16411	2433	CHAVAN MONALI PRAKASH	PUSHPA	Female	SC	B.C	24/09/2020	A	8669203145	chavanmonali10@gmail.com	44.77
15843	2434	CHAVAN HARSHADA BHASKAR	MANGAL	Female	SC	B.C	24/09/2020	A	9623143534	chavanharshada22@gmail.com	59.38
16579	2435	KADAM ANIKET APPASAHEB	VANITA	Male	OPEN	EBC	24/09/2020	A	9049772756	kadamarniket8000@gmail.com	62.15
15843	2436	GOLE GAURAV GANPAT	SANGITA	Male	OPEN	EBC	24/09/2020	A	7218321700	golegaurav1223@gmail.com	47.85
15742	2440	JAGTAP RUPALI SUNIL	SULOCHANA	Female	OPEN	EBC	29/09/2020	A	7057213042	rupalijagtap465@gmail.com	51.24
16376	2442	SURYAWANSHI VIKRAM HANUMANT	GAYATRI	Male	OPEN	B.C	29/09/2020	A	9860578154	vikramsuryawanshi2018@gmail.com	25.00
16203	2443	KALE POOJA MOHAN	VIJAYA	Female	OPEN	B.C	29/09/2020	A	9921531073	kalepooja16@gmail.com	51.08
16028	2448	BHISE VIJAY KRUSHNA	BHARATI	Male	SC	B.C	29/09/2020	A	9158679298	vijaybhise6427@gmail.com	50.15
13191	2449	KADAM OMKAR MAHADEO	KALPANA	Male	OBC	B.C	29/09/2020	A	8180856677	omkarkadam831999@gmail.com	51.85
15122	2450	KSHIRSAGAR SURAJ SUNIL	VASANTI	Male	OBC	B.C	29/09/2020	A	9822415233	surajkshirsagar1233@gmail.com	45.00
16484	2451	SHAIKH RASHID BABULAL	SURAYA	Male	OBC	B.C	29/09/2020	A	8600714047	shitolesachin9@gmail.com	57.38
15758	2452	YADAV GAURAV SATISH	SUVARNA	Male	OPEN	EBC	29/09/2020	A	9604704723	sachinpansare32@gmail.com	51.54
16389	2453	DAREKAR NILESH BALASO	SHALAN	Male	OPEN	EBC	29/09/2020	A	9511804567	nileshdarekar42@gmail.com	58.46
15096	2455	BANDAL VISHVAJEET VIJAY	CHHAYA	Male	OPEN	EBC	29/09/2020	A	7719892236	vishvaajeetbandal27@gmail.com	47.23
15721	2456	THOMBARE RUSHIKESH DADASO	KUNDA	Male	NT(C)	B.C	29/09/2020	A	9130552093	rushikesh5112000@gmail.com	49.85
15723	2457	NARUTE VISHAL LALASO	SMITA	Male	NT(C)	B.C	29/09/2020	A	9822411683	vishalnarute07@gmail.com	51.23
16435	2458	TAKALE VISHAL MANIK	YAMUNA	Male	NT(C)	B.C	29/09/2020	A	9096913183	vishaltakale343@gmail.com	47.69
15006	2459	MULIK SUMIT SHAMRAO	VAISHALI	Male	OPEN	EBC	29/09/2020	A	7350362184	mulikss1@gmail.com	44.31
15151	2460	KAMBLE ANIKET VIKAS	PALLAVI	Male	SC	B.C	29/09/2020	A	9623309860	arniket2098@gmail.com	50.17
13565	2461	BANDGAR YASHWANT HARISCHANDRA	VIJAYA	Male	NT B	B.C	29/09/2020	A	7350166572	byashwants602@gmail.com	50.46
16067	2463	THOPATE ABHJEET SHIVAJI	LAXMI	Male	OPEN	EBC	29/09/2020	A	7775073024	athopate44@gmail.com	47.38
16409	2464	THOPATE OMKAR PRAMOD	SWATI	Male	OPEN	EBC	29/09/2020	A	9172439860	omkart541@gmail.com	43.23
14231	2465	SHENDAGE ROHIT RAJENDRA	ARUNA	Male	NT(C)	B.C	06/10/2020	A	9579521212	rohitshendage344@gmail.com	42.83
16363	2466	KUMBHAR PRASAD NITIN	SEEMA	Male	OBC	B.C	06/10/2020	A	8888926403	prasadkumbhar2000@gmail.com	68.15
14260	2467	KAMBALE MONISH SANJAY	KAMBALE SAROJINI	Male	OPEN	B.C	06/10/2020	A	9561691455	monishkamble55@gmail.com	55.08
16265	2468	KHALATE SNEHRAJ GANPATRAO	SNEHA	Male	OPEN	EBC	06/10/2020	A	8554019698	snehrajkhate2088@gmail.com	67.08


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Page 3 of 3

Subject Wise Register (Single Subject) [For A.Y. 2020-2021]											
Member ID	Roll No.	Student's Name	Mother's Name	Gender	Caste Category	Fee Category	Adm. Date	Div.	Cell No.	Email ID	Last Exam %
15277	2469	BHOSALE TUSHAR JAGDISH									
14641	2470	DAGADE ADHIRAJ VILAS	SHREMATI CHHAYA	Male	OPEN	EBC	06/10/2020	A	9767977838	tusharbhosale7875@gmail.com	73.20
14698	2472	GEJAGE VISHAL SANJAY	PUSHPLATA	Male	NT(C)	B.C	06/10/2020	A	9960010880	adhirajdagade@gmail.com	49.69
14113	2473	DHUMAL NIKHIL RAJENDRA	VAIJANTA	Male	SC	B.C	06/10/2020	A	9172017601	vishalgejage1998@gmail.com	47.38
13482	2474	BALGUDE PRADIP SUNIL	SUREKHA	Male	SBC	B.C	06/10/2020	A	9970840246	dhumalnikhil13@gmail.com	52.92
13623	2475	MORE ASHUTOSH BAPURAO	SUNITA	Male	OPEN	EBC	06/10/2020	A	9146956598	pradipbalgude@gmail.com	45.69
13552	2476	KONDHALKAR DATTATRAY HANUMANT	MEENA	Male	OPEN	EBC	06/10/2020	A	7745830710	moreashutosh10@gmail.com	44.00
16166	2477	WAGH SAHIL KAILAS	MALAN	Male	OPEN	EBC	06/10/2020	A	9604572343	dattatraykondhalkar31797@gmail.com	48.92
16533	2483	BHOSALE PRADNYA GAJANAN	SHANTA	Male	VJ A	B.C	06/10/2020	A	8459190577	waghsahi94@gmail.com	47.23
			KAVITA	Female	OBC	B.C	27/10/2020	A	9158087209	shivrajbhosale140@gmail.com	55.23
Total 57 records											

Caste Category Summary Report

Caste Category	Male	Female	Total
NT B	2	1	3
NT(C)	6	5	11
OBC	6	2	8
OPEN	22	4	26
SBC	1	0	1
SC	4	3	7
VJ A	1	0	1
Total	42	15	57

Fee Category Summary Report

Fee Category	Male	Female	Total
B.C	22	12	34
EBC	20	3	23
	42	15	57


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Mugutrao Sahebrao Kakade College
 Someshwarnagar, Dist : Pune-412306

Savitribai Phule Pune University, Pune-411007

Syllabus 2020-21

S. Y. B. Sc. Microbiology Semester I and Semester II

Titles of the Papers

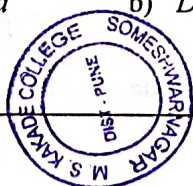
Semester	Paper Code	Paper	Paper title
III	MB 231	I	Medical Microbiology and Immunology
	MB 232	II	Bacterial Physiology and Fermentation Technology
	MB 233	III	Practical based on MB 231 and MB 232
IV	MB 241	I	Bacterial Genetics
	MB 242	II	Air, Water and Soil Microbiology
	MB 243	III	Practical based on MB 241 and MB 242

S. Y. B. Sc. Microbiology Syllabus (Semester I)

MB-231: Medical Microbiology and Immunology		[36]
[1 credit=15hrs x 60 mins = 900mins/50mins=18 lectures]		
Credit I	Medical Microbiology	(18)
1	Definitions: Incubation period, Viability, Susceptibility, Pathogenicity, Virulence, Pathogenesis, Lab diagnosis, Epidemic, Sporadic, Endemic, Pandemic	2
2	Study of following pathogens with respect to – Classification, Morphological, Cultural and Biochemical characters, Antigenic structure, Viability characteristics, Pathogenicity, Pathogenesis, Symptoms, Laboratory diagnosis, Epidemiology, Prophylaxis and Chemotherapy: Bacteria: a) <i>Escherichia coli</i> b) <i>Staphylococcus aureus</i> Fungi: a) <i>Candida</i> b) <i>Dermatophytes</i>	10

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1/15

S. Y. B. Sc. Microbiology Practical Course MB 243

Semester IV: Practical course based on MB 241 and MB 242		
Expt. No.	Topics	No. of Practicals
1	Air sampling using an air sampler, calculation of air flora from different locations with the knowledge of respective standards of bacterial and fungal counts.	1
2	Air Flora: a. Diversity determination. b. Simpson index and settling velocity determination	1
3	Bacteriological tests for potability of water a. MPN, Confirmed and Completed test. b. Membrane filter technique (Demonstration)	4
4	Enrichment, Isolation, Preparation and Application of Bioinoculant (Azo-Rhizo/ BlueGreen Algae (cyanobacteria))	2
5	a. Induction of mutations by using physical mutagen (e.g. U V rays) and chemical mutagen (e.g. HNO ₂) b. Isolation of mutants by any suitable method c. Demonstration of UV survival curve	3
6	Visit to Industry/ Drinking Water treatment plant	1
	Total	12




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Page 1 of 1
 Division: (All)

Subject Wise Register (Single Subject) [For A.Y. 2020-2021]

Medium: (All)

Division Type: GING/PNG

Subject Code: MT 243

Class: S.Y.BSC(CREDIT)
 Subject: PRACTICAL-II

Member ID	Roll No.	Student's Name	Mother's Name	Gender	Caste Category	Fee Category	Adm. Date	Div.	Cell No.	Email ID	Last Exam %
17295	2209	RASKAR RUTUJA ANKUSH	CHHAYA	Female	OBC	B.C	09/09/2020	A	9370089511	rutuja.raskar02@gmail.com	71.08
Total 1 records											

Caste Category Summary Report

Caste Category	Male	Female	Total
OBC	0	1	1
Total	0	1	1

Fee Category Summary Report

Fee Category	Male	Female	Total
B.C	0	1	1
Total	0	1	1



(Handwritten Signature)

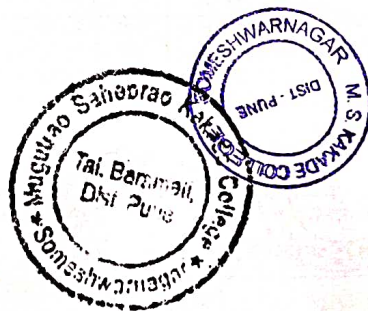
(Handwritten Signature)
 Co-ordinator
 Internal Quality Assurance Cell (IQAC)
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SAVITRIBAI PHULE PUNE UNIVERSITY

B. Sc. Degree Course in MICROBIOLOGY

SYLLABUS FOR THIRD YEAR
(To be implemented from Academic Year 2015-16)




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**Equivalences for the New Courses (w. e. f. from 2015-16)
with Old Courses (from 2010-11) in Microbiology
T. Y. B. Sc. Microbiology**

Semester III				Semester IV				Practical Courses			
New Course		Old Course		New Course		Old Course		New Course		Old Course	
Paper	Course Title	Paper	Course Title	Paper	Course Title	Paper	Course Title	Paper	Course Title	Paper	Course Title
MB 331	Medical Microbiology - I	MB 331	Medical Microbiology - I	MB 341	Medical Microbiology - II	MB 341	Medical Microbiology - II	MB 347		MB 347	
MB 332	Genetics & Molecular Biology - I	MB 332	Genetics and Molecular Biology - I	MB 342	Genetics & Molecular Biology - II	MB 342	Genetics and Molecular Biology - II	Practical course - I Applied Microbiology		Practical course - I Applied Microbiology	
MB 333	Enzymology	MB 333	Enzymology	MB 343	Metabolism	MB 343	Metabolism	MB 348		MB 348	
MB 334	Immunology - I	MB 334	Immunology - I	MB 344	Immunology - II	MB 344	Immunology - II	Practical course - II Biochemistry & Molecular Biology		Practical course - II Biochemistry & Genetics	
MB 335	Fermentation Technology - I	MB 335	Fermentation Technology - I	MB 345	Fermentation Technology - II	MB 345	Fermentation Technology - II	MB 349		MB 349	
MB 336	Food & Dairy Microbiology	MB 336	Food & dairy Microbiology	MB 346	Agricultural & Environmental Microbiology	MB 346	Soil & Agricultural Microbiology	Practical course - III Diagnostic Microbiology & Immunology		Practical course - III Diagnostic Microbiology & Immunology	



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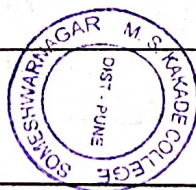
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Course Structure

T. Y. B. Sc. Microbiology

Theory Courses							
Semester III				Semester IV			
Paper	Course Title	Internal Exam Marks	University Exam Marks	Paper	Course Title	Internal Exam Marks	University Exam Marks
MB 331	Medical Microbiology - I	10	40	MB 341	Medical Microbiology - II	10	40
MB 332	Genetics & Molecular Biology - I	10	40	MB 342	Genetics & Molecular Biology - II	10	40
MB 333	Enzymology	10	40	MB 343	Metabolism	10	40
MB 334	Immunology - I	10	40	MB 344	Immunology - II	10	40
MB 335	Fermentation Technology - I	10	40	MB 345	Fermentation Technology - II	10	40
MB 336	Food & Dairy Microbiology	10	40	MB 346	Agricultural & Environmental Microbiology	10	40

Practical Courses			
Paper	Course Title	Internal Exam Marks	University Exam Marks
MB 347	Practical course - I Applied Microbiology	20	80
MB 348	Practical course - II Biochemistry & Molecular Biology	20	80
MB 349	Practical course - III Diagnostic Microbiology & Immunology	20	80



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MB - 347: PRACTICAL COURSE - I APPLIED MICROBIOLOGY

Sr. No.	Topic	No. of Practical
I	Screening and isolation of pesticide degrading microorganisms from soil.	2
II	Isolation and identification of lactic cultures up to genus level	2
III	Laboratory scale fermentation, estimation, product recovery and yield calculation of ethanol / organic acid (any one)	2
IV	Quality assurance tests: a. Antibiotic and growth factor assay (agar gel diffusion technique) b. Sterility testing of non-biocidal injectables	2 1
V	MIC and MBC of Antibacterial compounds	2
VI	Tests for Milk and Dairy products a. Phosphatase test b. MBRT test c. Test for mastitis d. Milk fat estimation e. Standard Plate Count (for milk / milk product e.g. milk powder) f. Direct Microscopic count g. Somatic cell count	4
VII	Enrichment, Isolation, Preparation and Application of Bioinoculants (e.g. Azo-Rhizo / Blue Green Algae (cyanobacteria), phosphate solubilizer - anyone)	2
VIII	Isolation and identification of <i>Xanthomonas</i> spp. from infected sample	1
IX	Isolation and identification of <i>Aspergillus</i> spp. from onions infected with Black Mould	1
X	Antifungal activity of Lactic acid bacteria.	1
XI	Microscopic examination of Fungi causing Rust and Smut infections in Plants (Demonstration)	1
XII	Dye removal from wastes by dead microbial Biomass	1
XIII	Biosynthesis of nanoparticles	1
XIV	Visit to a Dairy / Fermentation industry / Agriculture college and preparation of visit report	1


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Subject Wise Register (Single Subject) [For A.Y. 2020-2021]

Page 1 of 2

Class: T.Y.BSC

Medium: (All)

Division Type: G/NG/PNG

Division: (All)

Subject: APPLIED MICROBIOLOGY

Subject Code: MB347

Member ID	Roll No.	Student's Name	Mother's Name	Gender	Caste Category	Fee Category	Adm. Date	Div.	Cell No.	Email ID	Last Exam %
15697	2401	HOLKAR KOMAL VITTHAL	VAISHALI	Female	OBC	B.C	28/08/2020	A	9665318219	micropanunit@gmail.com	51.54
14997	2407	PRATIKSHA PRADIP DOSHI	SMITA	Female	OPEN	EBC	01/09/2020	A	9139233237	pratikshadoshi10@gmail.com	52.62
14314	2408	NIMBALKAR INDRAJA RAMDAS	VAISHALI	Female	OPEN	EBC	04/09/2020	A	8888253132	nimbalkarindraj10@gmail.com	52.92
15441	2417	SALVE PRANITA SUDHIR	ARCHANA	Female	SC	B.C	08/09/2020	A	9604934627	salvepranita107@gmail.com	51.38
17654	2420	CHAVAN PRAJKTA AVINASH	RAJASHREE	Female	OPEN	EBC	18/09/2020	A	9787731897	praktachavan111@gmail.com	67.87
16001	2421	HULAGE VRUSHALI VIJAY	SUNITA	Female	NT(C)	B.C	18/09/2020	A	9766116099	vrushalih1305@gmail.com	50.77
16116	2437	TAMBE ARCHANA APPA	SANGEETA	Female	NT(C)	B.C	24/09/2020	A	9271807150	tambeaa@gmail.com	57.23
15773	2438	TAMBOLI SANIYA RAJENDRA	SAYARA	Female	OBC	B.C	24/09/2020	A	9146465781	tambolisania21@gmail.com	49.69
15741	2444	NANAWARE MAYUR RAMDAS	VAISHALI	Male	OBC	B.C	29/09/2020	A	7028182732	mayumanaware40@gmail.com	50.77
16149	2446	KUMBHAR RUTESH GOKULDAS	SATVASHEELA	Male	OBC	B.C	29/09/2020	A	9850682486	nuteshkumbhar1999@gmail.com	51.54
13186	2454	TENGALE ASHISH BALASO	SUREKHA	Male	NT(C)	B.C	29/09/2020	A	9881392711	ashishtengale504@gmail.com	51.54
15595	2462	INGALE VAIBHAV RAVINDRA	UJJAWALA	Male	OPEN	EBC	29/09/2020	A	8208614073	ingalevaibhav350@gmail.com	60.00
14085	2471	SHINDE SNEHAL PARSHURAM	VAISHALI	Female	OBC	B.C	06/10/2020	A	9823438979	shindesnehal0101@gmail.com	53.38
15707	2479	DHAYGUDE ARTI TANAJI	MANISHA	Female	NT(C)	B.C	06/10/2020	A	7875522915	aratidhaygude255@gmail.com	54.00
15442	2480	CHAVAN RANI MACHINDRA	SANGITA	Male	VJ A	B.C	06/10/2020	A	7558769783	chavanrani768@gmail.com	52.00
15372	2485	SONWALKAR SUPRIYA ANIL	NALINI	Female	NT(C)	B.C	08/12/2020	A	9765169985	sonwalkarsa11@gmail.com	55.38

Total 16 records



[Signature]
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Caste Category Summary Report

Caste Category	Male	Female	Total
NT(C)	1	4	5
OBC	2	3	5
OPEN	1	3	4
SC	0	1	1
VJA	1	0	1
Total	5	11	16

Fee Category Summary Report

Fee Category	Male	Female	Total
B.C	4	8	12
EBC	1	3	4
	5	11	16



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SPECIAL ELECTIVE SUBJECT - GROUP A (ADVANCED ACCOUNTING & TAXATION)

Subject: PROJECT WORK / CASE STUDIES **Course Code: 404** **Total Credits: 04**

Project Work in Accounting and Taxation

A student can select any topic relating to principles practices and procedures of accounting auditing taxation and management accounting. Any topic from the syllabus of the papers studied at M Com. Part One or Part Two under special paper Accountancy & Taxation can be of a use. Pick up any unit studied and try to connect it to commercial word around e.g. in taxation a student has studied taxation of a company, then he can select a topic Tax Planning of a particular company or a study of taxation of an educational institute. On this line following areas have been listed out for project work in Accountancy.

Area of Project Work in Accounting:-

Following is the list of topics for project work in Accounting.

1. Financial statement Analysis of –
 - a. A Limited Company for 5 years
 - b. Five Companies of five different industries
 - c. Five companies of one industry e.g. Automobile, Engineering, Textile
 - d. Five banks from Private sector/Co-op. sector
2. Study of Working Capital Management of a large Company.
3. Study of Budgetary Control System of four Companies
4. Study of Management Information System of four Companies.
5. Procedure of preparation of Consolidated Balance Sheet by Holding Company having two / three subsidiaries companies.
6. Valuation of Shares of 10 unlisted Companies.
7. A study of Amalgamation/Merger of procedure of two Companies (Accounting procedure)
8. A comparative study of Accounting System of Hotel industry – Five Star, Three stars, large Hotel and small Hotel.
9. Comparative study of Accounting of Hospitals from Private sector, Trust and Small Hospital.
10. Study of Accounting for Grants to school, college, and institute.
11. Application of Inflation Accounting to a large Company's Balance Sheet.



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SAVITRIBAI PHULE PUNE UNIVERSITY

Faculty of Commerce & Management

Master of Commerce (Semester IV)

(Choice Based Credit System)

Revised Syllabus (2019 Pattern)

(w.e.f. Academic Year-2020-2021)

CORE COMPULSARY SUBJECT

Subject: Capital Market and Financial Services

Course Code: 401

Total Credits: 04

Objectives:

1. To acquaint the students with working of capital market.
2. To make the students aware about the latest developments in the field of capital market in India.
3. To enable the students to understand various transactions in stock exchanges and agencies involved in it.
4. To give exposure of financial services offered by various agencies and financial adviser to students.

Skills to be developed:

1. To make aware about working of capital market in India.
2. To expose them to various instruments of capital market.
3. Students shall learn and acquire the knowledge of financial services offered by agencies.

Students will acquire skills about recent development in regulatory body SEBI

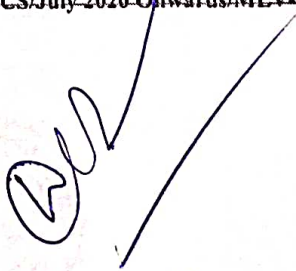


Unit No.	Topic	No. of Lectures	Teaching Method	Course Outcome
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SOMESHWARNAGAR, TAL. BARSHI, DIST. PUNE 412306

M.S.Kakade College, Someshwarnagar
Tal-Baramati Dist-Pune (412306)

Special Paper (Advanced Accountancy & Taxation)

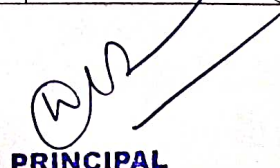
[2020-21]

Sr. no	Roll No.	Students Name	Mobile Number	Students E-Mail Id
1	7207	Somani Dipali Rangnath	9921913642	somanidipali22@gmail.com
2	7208	Salunkhe Priyanka Chandrashekhar	9834892650	priyankasalukhe296@gmail.com
3	7209	Adsul Komal Shivaji	9359701538	komaladsul144@gmail.com
4	7210	Kadam Ashwarya Mahadev	9834892650	kadamaishwarya12@gmail.com
5	7211	Mundada Aniket Satish	9765822982	mundadaaniket22@gmail.com
6	7212	Shinde Prajakta Rajendra	7887947909	shindeprajakta11@gmail.com
7	7213	Holkar Rupali Aabaso	9011798820	holkarrupali10@gmail.com
8	7214	Zanzane Rutuja Sharad	9922070390	zanzanerutuja10@gmail.com
9	7215	Khunte Sagar Sarjerao	8698295769	khuntes@gmail.com
10	7216	Khatal Megha Appasaheb	7773900647	khatalmegha11@gmail.com
11	7217	Tambe Aditya Sharad	9049318687	adityatambe454@gmail.com
12	7218	Gaikwad Aniket Ramdas	8796740938	aniketgaikwad5264@gmail.com
13	7219	Salunkhe Suraj Shivaji	8600719976	surajsalunkhe@gmail.com
14	7220	Bhosale Akash Bhau	9172818683	akash96bhosale@gmail.com
15	7221	Adsul Sonali Dattatray	8766570305	adsulsonali10@gmail.com
16	7230	Kakade Bhagyashri Kamlakar	9011798820	kakadebhagyashri10@gmail.com
17	7231	Gaikwad Poonam Shivling	9922084834	punamgaikwad323@gmail.com
18	7232	Jadhav Akash Kisan	9172496054	sachinskshirsagar1@gmail.com
19	7233	Sheikh Rajiya Lalahamad	8669583197	shaikhrajiya10@gmail.com
20	7234	Karande Rupali Bhiva	9881336011	tambe.nitin624@gmail.com
21	7235	Pawar Gouri Suresh	9970897265	gouri0121pawar@gmail.com
22	7236	Gade Bhavana Shivaji	8055793377	bhavna@gmail.com
23	7237	Ahirekar Laxmi Ganpat	8600975111	laxmi@gmail.com
24	7238	Bhujbal Adesh Sanjay	9762352366	adesh.bhujbal12@gmail.com
25	7239	Pawar Neha Balaso	8605215473	nehabpawar1997@gmail.com
26	7241	Jagtap Manisha Dilip	8380956205	jagtapmanisha@gmail.com
27	7242	Kutwal Ganesh Digambar	7888157551	ganeshkutwal60@gmail.com
28	7243	Malawadkar Tushar Sundar	7083300920	tmalvadkar07@gmail.com
29	7244	Bansode Ramdas Vitthal	7040094680	bansoderamdas10@gmail.com


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32	7247	Yadav Akshay Maruti	8605056007	yadavakshay227@gmail.com
33	7248	Sathe Snehal Rohidas	9673505179	snehasathe2020@gmail.com
34	7249	Karande Akshay Ramesh	8796419305	karandeakshay123@gmail.com

Principal
 Someshwarsagar, Dist: Pune-411006



Co-ordinator
 Internal Quality Assurance Cell (IQAC)
 M. S. Nakode College, Someshwarsagar

SPECIAL ELECTIVE SUBJECT - Group D (Co-operation & Rural Development)

SUBJECT: Project Work/ Case Studies

Course Code: 410

Total Credits: 04

Objectives:

1. To develop research attitude of the students.
2. To enrich the ability of research work among the students

Introduction:

As a partial fulfillments of University of Pune requirement for M.Com Programme students have to undergo in-plant training of 6 weeks in an organization of repute assigned by the institute or accessible to student. The objective of this activity is to test student's ability to apply theoretical knowledge to Co-operation and Rural Development. In the light of exposure to different functional areas and research methodology at M.Com Part- II curriculum the students have to collect the data relevant to their topic or problem, analyze the same methodologically, make intelligent observations and offer some practical suggestions. In order to complete the task following Report Contents and Chapter Scheme is suggested which can be adopted with or without modification.

Report Contents:

- A. Cover Page
- B. Company Certificate
- C. Guide Certificate
- D. Acknowledgement
- E. Declaration
- F. Executive Summary



Tentative Chapter Scheme:

Unit No.	Unit Title	Contents
1	Introduction	Selection and relevance of the problem, historical background of the problem, definition/s of related aspects, characteristics, different concepts pertaining to the problem etc can be covered by the candidate
2	Research Methodology	It include Objectives, Hypothesis, Scope of the study, Selection of the problem, Sample size, Data collection, Tabulation of data, Techniques and tools to be used, limitations of the study, significance of the study etc



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62. Accounting Standards, their application by the limited company to its annual accounts.
63. Comparative study of effect of Depreciation Allowance on Book Profit & taxable profits of a limited company for 3 years including carried forward and set-off.
64. Analysis of any three recent cases decided by High Court.
65. Study of fraud cases detected by application of S.A.P.
66. Comparative study of Financial Statements of Educational Institutions for 2 years.
67. A study on E filing of Tax Returns- Income Tax, GST etc.
68. A study of Computerized Accounting system in any business unit.



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5.	Literature Review	Provide information about studies done on the respective issue. This would assist students to undertake further study on same issue.
6.	Data Presentation and Data Analysis	The analysis pertaining to collected data will be done by the students, the application of selected tools or techniques
7.	Conclusion	Findings of work will be covered by the candidate and suggestion will be mentioned by the candidate to validate the objectives and hypotheses.
8.	Bibliography	It include a list of all of the sources you have used whether referenced or not in the process of research work
9.	Appendix	An appendix contains supplementary material that is not an essential part of the text itself but which may be helpful in providing a more comprehensive understanding of the research problem

Project Report (For Regular Students)

There will be a project work carrying 100 marks for internal students only. The students will have to select a subject from any area of the syllabi for Business Entrepreneurship. The students will have to work under the guidance of concerned subject teacher.

The Research project work will carry total 100 marks.

Research project Division of Marks

Division of Marks	Marks
Synopsis with working bibliography (Internal Assessment)	40 Marks
A full project Report (Minimum 50-80 pages)	40 Marks
Viva Voce	20 Marks
Total	100 Marks



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Project Viva Voce to be conducted by internal teacher and external teacher (examiner) appointer by the University.

Case Studies (Only for External Students)

There will be a paper of case studies for external students. The paper will be set for 80 marks to be converted in to 100 marks. Total 20 cases will be selected from standard book for study. In the question paper 3 cases out of 20 (twenty) cases will be covered, each carrying twenty (20) marks. One unseen case will also be covered and it will carry twenty (20) marks.

Note: The paper of case studies will be offered only by external students only.



References:-

Sr. No	Title of Book	Author/s	Publication	Place
1	Research Methodology-Methods & Techniques	C. R. Kothari	New Age International Publishers	New Delhi
2	Research Methodology	Dipak Kumar Bhattacharyya	Excel Books	New Delhi
3	Research Methodology-Methods & Techniques	Anil Kumar Gupta	Value Education of India	New Delhi
4	Research Methodology-Concepts and Cases	Deepak Chawla & Neena Sondhi	Vikas Publishing House Pvt. Ltd	New Delhi
5	Research Methods	Ram Ahuja	Rawat Publications,	Jaipur
6	Methodology & Techniques of Social Research,	P. L. Bhandarkar, T. S. Wilkison & D. K. Laldas	Himalaya Publishing House	Mumbai
7	Legal Research and Writing Methods	Anwarul Yaqin	LexisNexis Butterworths	Nagpur
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