

Shrikrishna Shikshna Sanstha
Shrikrishna Mahavidyalaya Gunjoti
Ta. Omerga, Dist. Osmanabad (M.S.)

Academic Planning and Evaluation Committee
Academic Year 2020-2021

The constituted Academic Planning and Evaluation Committee for the Academic Year 2020-2021 is as under.

1. Dr.D.R. Kulkarni	Chairman
2. Dr. R.S.Madale	Co-ordinator
3. Dr.B.J.Ugale	Member
4. Shri K.R.Shanediwan	Member
5. Shri G.G. Hirwe	Member

- Academic Planning and Evaluation Committee prepare academic plan and organize teaching, learning and evaluation schedules.
- The academic calendar is prepared on the basis of academic calendar of Dr. B. A. Marathwada University
- The academic calendar is displayed on notice boards for students and copy of academic calendar is distributed among the teaching staff.
- Academic calendar is also displayed on college website.
- **Teaching plans.**
- The teaching plans are prepared by considering the available teaching days and holidays declared by the society, university and state Government.
- Every faculty member prepares the annual plan and submits the Teaching plans to the Academic Planning and evaluation committee at the beginning of the academic year.
- Heads of the departments monitors the progress of teaching and learning annual plan.

- Faculty members submit the monthly teaching report to the committee.
 - The review is taken by the committee regarding the completion and progress of the syllabus.
 - Daily teaching record is maintained in the Daily Teaching Diary by every faculty member and it is verified by the committee time to time.
 - Attendance record of the students is kept with the teacher daily.
- Evaluation:**
- The College follows internal assessment such as unit test, tutorial and class test conducted by teachers from time to time.
 - Development of the students is evaluated on the basis of its attendance, assignments, tests, seminars, projects, Behavioral aspect, Semester end examinations, Practical examinations and viva-voce.
 - Faculty staff informs the student about the evaluation pattern of the university.
 - The college evaluates the teacher's feedback by students through feedback form at the end of academic year.
 - Feedback is analyzed by the committee and necessary steps are taken by faculty for improving the teaching learning process.
 - The institute monitors the quality of teachers by the head of the institution and head of the departments.
 - Convener evaluates the quality of teaching, learning by checking daily teaching diary of the faculties.

M. J. Jais
Co-ordinator
Dr. Madhe R. S.

[Signature]
PRINCIPAL
Shrikrishna Mahavidyalaya
Gunjoti Tq. Omerga

Shrikrishna Mahavidyalaya, Gunjoti

Tq-Omerga, Dist-Osmanabad

Date :17/02/2021

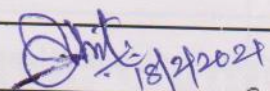
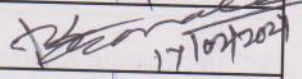
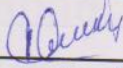
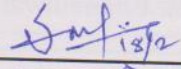

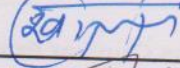
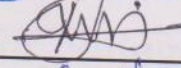
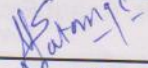
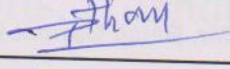
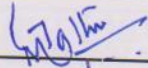
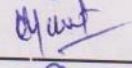
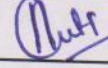

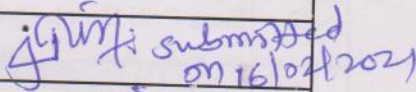
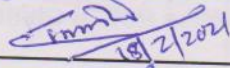
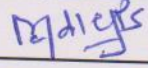
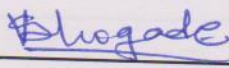

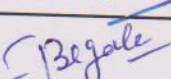
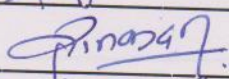
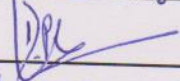
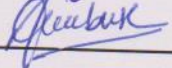
Notice

All the teaching staff members of our college is informed that the Daily Teaching Reports, Attendance, Academic Calendar for 180 days, Teaching Day Calendar and Annual Teaching plan for the Academic year 2020-2021 are being distributed. The information filled Annual Teaching plan and Academic calendar for 180 days must be submitted to Dr.B.J.Ugale on or before 20/02/2021.


Principal
Principal

Shrikrishna Mahavidyalaya, Gunjoti
Tq.Omerga Dist.Osmanabad

Academic calendar, Teaching plan 2020-21

Sr. No	Name of the employee	Signature
1	Shri.Kulkarni Dilip Rajaram	
✓ 2	Shri.Bhosale Hanumant Shivaji	
✓ 3	Shri.Konale Balaji Eknathrao	
✓ 4	Choudhari Pramod Gunvantrao	
✓ 5	Suryawanshi Milind Tukaram	
✓ 6	Shri.Lohar Kishan Shankarrao	
✓ 7	Shri.Khot Mahadeo Chintamani	
✓ 8	Shri.Koli Ramdas Ganpat	
✓ 9	Shri.Patange Sunil Mukundrao	
✓ 10	Shri.Pathan Dastgir Mahmud	
✓ 11	Shri.Rathod GulabManu	
✓ 12	Shri.Raut PrabhatShankarrao	
✓ 13	Miss.Chisti Asiya Md.Pasha	
✓ 14	Shri.Pawar Nandkumar Jalindar	
15	Shri. BadodkarSanjaySakharam	
✓ 16	Shri.Nanware Jagdish Ashruba	
✓ 17	Shri.Nigade Rajaram Namdeo	
✓ 18	Shri.Madle Ramesh Suryaji	
✓ 19	Shri.Hogade Vilas Sidram	
20	Shri.Kaldate Anil Rambhau	
21	Shri.Patre Ramesh Dhondiba	
✓ 22	Shri.Vijapure YogirajAshok	
✓ 23	Dr.UgaleBhausahabJanardhan	
✓ 24	Dr.Kadam Ramkrishna Haridas	
✓ 25	Dr.Chavan Digambar Prabhakar	
✓ 26	Dr.Miss.Ambuse Mallamma Gurunath	

SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Tq. Omerga Dist. Osmanabad

Teaching Days Calendar 2020-21

Sr. No.	Months	Teaching Days	Total Days	Sunday	Holiday
First Term – 01/11/2020 to 26/03/2021					
1	Nov	2,3,4,5,6,7,9,10,11,12,13,17,18,19,20,21,23,24,25,26,27,28	22	1,8,15,22,29	14,16,30
2	Dec	1,2,3,4,5,7,8,9,10,11,12,14,15,16,17,18,19,21,22,23,24,26,28,29,30,31	26	6,13,20,27	25
3	Jan	1,2,4,5,6,7,8,9,11,12,13,15,16,18,19,20,21,22,23,25,27,28,29,30	24	3,10,17,24,31	14,26
4	Feb	1,2,3,4,5,6,8,9,10,11,12,13,15,16,17,18,20,22,23,24,25,26,27	23	7,14,21,28	19
5	March	1,2,3,5,6,	06	-	-
Total			101		
First term - Total working days 118, Total teaching days 101, Total exam days 16					
Term end Exam 08/03/2021 to 26/03/2021					
Second Term – 05 April 2021 to 21 August 2021					
6	April	5,6,7,8,9,10,12,15,16,17,19,20,22,23,24,26,27,28,29,30	20	11,18,25	13,14,21
7	May	3,4,5,6,7,8,10,11,12,14,15,17,18,19,20,21,22,24,25,27,28,29,31	23	2,9,16,23,30	1,13,26
8	June	1,2,3,4,5,7,8,9,10,11,12,14,15,16,17,18,19,21,22,23,24,25,26,28,29,30	26	6,13,20,27	-
9	July	1,2,3,5,6,7,8,9,10,12,13,14,15,16,17,19,20,22,23,24,26,27,28,29,30,31	26	4,11,18,25	21
10	Aug	2,3,4,5,6,7,	06	1	--
Total			101		
Second term - Total working days 111, Total teaching days 101, Total exam days 10					
Summer Vacation _____ to _____					
Total Working Days = 229		Weeks for Teaching = 34			
Total Teaching Days = 202		Weeks for Admission = 73 days			
Examination Days = 26		01/08/20 to 31/10/20			
Curricular and Extra curricular activities =		Weeks for Vacation =			
Winter vacation days =		Weeks for Holiday = 3			
Summer Vacation Days =					

SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Tq. Omerga Dist. Osmanabad

Teaching Days Calendar 2020-21

For lockdown period

Sr. No.	Months	Teaching Days	Total Days	Sunday	Holiday
First Term – 08 June to 31 October 2015 4/8/2020 to 31/10/2020					
1	Aug	4,5,6,7,8,10,11,13,14,17,18,19,20,21, 24,25,27,28,29,31	20	9,16,23,30	12,15,22, 26
2	Sep	1,2,3,4,5,7,8,9,10,11,12,14,15,16,18,19, ,21,22,23,24,25,26,28,29,30	25	6,13,20,27	17
3	Oct	1,3,5,6,7,8,9,10,12,13,14,15,16,17,19, 20,21,22,23,24,26,27,30,31	24	4,11,18,25	2,29
			69		

SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

(2020-21)

Academic Calendar For 180 Days

Faculty of Art's / Science

Academic Year: (2020-21)

(Department of Mass Media)

Name of Faculty Member: Chandrasekhar P. V.

Term	Month	Working days	Theory Periods	Practical Periods	Total Periods
First Term	November	22	74	-	74
	December	24	85	-	85
	January	24	84	-	84
	February	23	71	-	71
	March	06	21	-	21
Total 1		101	334	-	334
Second Term	April	20	76	-	76
	May	23	78	-	88
	June	26	85	-	85
	July	26	30	-	30
	August	06	20	-	20
Total 2		101	349	-	349
Total 1 + 2		202	683	-	683

Total Working Days = 202

Total Theory Periods = 683

Total Practical Periods = -



Signature of Faculty Member



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2010-2011)

Faculty : Arts / Science

Department : Marathi

Class : B.A./B.Sc. / M.A./ M.Sc. I

Semester : I

Paper No : I

Paper Name : Sl-Marathi

Name Of Faculty : Chandhuri P.W.

पत्र-पत्र व संशोधन मंत्रालय

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
1.	संक्षिप्त इतिहास - मराठी	व्याख्यान	04	05 नोव्हेंबर 2020 ते	
2.	संक्षिप्त इतिहास - संत एकनाथ	११	03	05 डिसेंबर 2020	
3.	राजाची कल्ले - वकिमवीस	११	04		
4.	लुमी संक्षिप्त इतिहास वागा - लारावई शिंदे	११	03		
5.	जीवाम आमची सून शाळी	११	02		
6.	परमेश्वराचे कविते - श्री.म. मोटे	११	04		
7.	धुळी काळील इतिहास - मुकुंदराव	११	02	10 डिसेंबर 2020	
8.	कुश्चकशुमीकर - संत नामदेव	११	02	ते 14 जानेवारी 2021	
9.	आनंदे कविता - संत विठ्ठल	११	02		
10.	शाखा वाद्येनी मराठी - पायल शिंदे	११	01		
11.	पूर्वजातपदिशा - संत जगदीश-जगदीश	११	02		
12.	पांडुरंग - संत दासराव	११	02		
13.	आनंदे कविते - शमादेव स्वामी	११	01		
14.	ऐसे केले था - संत शेष महंमद	११	02		
15.	मन करारे सखल - संत लुकाराम	११	02		
16.	लुमी शिंदे - लुमी वाळी	११	02		

Signature of Faculty

→ पुढील पानावर

Principal



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2010-2011)

Faculty : Arts / Science

Department : Marathi

Class : B.A./B.Sc. / M.A./ M.Sc. I

Semester : II

Paper No : II

Paper Name : 92-Marathi

Name Of Faculty : Chaudhary P. V.

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
1.	शेवळे कीर्तन - शंभू गाडगे बापू	व्यख्यान	03	08 एप्रिल 2011	
2.	देशाचे कवित्तव - डॉ. बाबासाहेब आंबेडकर	११	04	९	
3.	लोकशाळा हीच शांतशाळा - यशवंतराव चव्हाण	११	04	13 मे 2011	
4.	कोवळे मरण - काळचंद्र गेमाडे	११	04		
5.	दिलगी - रामराव झुंजार	११	03		
6.	गरुड - महोदय गालकपाड	११	02		
1.	कुळवीज - म. फुळे	११	01	13 मे 2011	
2.	निर्वास - बाळकवी	११	02	17 मे 2011	
3.	नय महाराष्ट्र गीत - सुरेश. कार	११	02		
4.	काई - ग्रेस	११	02		
5.	दिशेबा - वीर दायक चरम	११	02		
6.	मन्दी लुकाळुकीचा - अरुण काळे	११	02		
7.	गिरसा मुंडा - गुणग मिश्राम	११	02		
8.	गुणवलेचा निकष - शंकाजी आवळकर	११	01		
9.	लोकवाक मंकीची - काजिम नवाज राही	११	02		
10.	काच कसले प्रेम - सुनिता गांगकपाड	११	02		

Signature of Faculty

- पुढे पहा ->

Principal
Principal



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2010-2011)

Faculty : Arts / Science

Department : Marathi

Class : B.A./B.Sc. / M.A./ M.Sc. I

Semester : I/II

Paper No : II

Paper Name : गद्यशास्त्र शास्त्र/सहित

Name Of Faculty : _____

माध्यमशास्त्र लेखन कोश

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
1.	फारकेका चलंग, चिंगी मरिजाची झाडी I	- व्याख्यान -	15	04 नोव्हें. 2010 - 25 नोव्हें. 20	
	जारी लोच - शंकर गोविंद दिवाकर		15		
2.	मुक्ती झाडी ही - ज्योती महाप्रेकर	११	15	26 नोव्हें. 20 - 26 डिसें. 20	
3.	रूपरे - श. रं. बोरोडे	११	15	30 डिसें. 20 - 20 जाने. 21	
4.	थागना हल्लय बापु घोडे II	११	15	21 जाने. 21 - 10 फेब्रु. 21	
5.	वृत्तपत्राचे स्वरूप आणि महत्त्व	११	07	7 एप्रिल 21 - 13 ए. 21	
2.	श्लोक लेखन	११	07	14 एप्रिल 21 - 26 ए. 21	
3.	मुक्तीकरण	११	07	27 एप्रिल 21 - 17 मे. 21	
4.	शेवद लेखन	११	07	18 मे 21 - 29 मे 21	
5.	अज्ञ लेखन	११	07	30 मे 21 - 11 जून 21	
6.	वाहिराग	११	07	12 जून 21 - 20 जून 21	
7.	समिष्टात्मक लेखन	११	07	21 जून 21 - 5 जुलै 21	
8.	वाचकोची पत्रे	११	07	10 जुलै 21 - 17 जुलै 21	
9.	निवाण	११	07	18 जुलै 21 - 28 जुलै 21	

Signature of Faculty

Principal
Shrikrishna Mahavidyalaya, Gunjoti



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (201⁰-201¹)

Faculty : Arts / Science

Department : Marathi

Class : B.A./B.Sc. / M.A./ M.Sc. II

Semester : III

Paper No : 7

Paper Name : आधुनिक मराठी वाङ्मयाचा इतिहास

Name Of Faculty : Chauhan P.V.

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
1	आधुनिक वाङ्मय	परिचय	15	02 नोव्हेंबर 2020 ते	
i)	शेकेरी संकल्पना आणि स्वरूप			5 डिसेंबर - 2020	
ii)	शेकेरी आणि इतिहास				
iii)	शेकेरी आणि साहित्य अंग: शोध				
iv)	साहित्य आणि सामाजिक दृष्टी				
v)	सुंदरपणेचा हलका				
vi)	शाका पुराणक मंडळी आणि विवेक मिश्र				
vii)	धार्मिक प्रबोधनाचा प्रयत्न				
viii)	विप्लवादिनांचा हलका		15	6 डिसेंबर 2020 ते	
2	विषय - स्वरूप आणि विवेक			10 नोव्हेंबर 2021	
i)	लोकविवादांची शोध				
ii)	हो फुलेचे लेखन				
iii)	विषयमाळा				
3)	कथा वाङ्मय : स्वरूप आणि विवेक		15	11 नोव्हेंबर 2020	
i)	इ.स. 1946 ते 1955 या काळातील कादंबरी		15	30 नोव्हेंबर 2020	
ii)	1955 ते 1980 या काळातील कादंबरी				

Signature of Faculty

Principal

SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Academic Calendar For 180 Days

Faculty of Arts / Science

Academic Year: (2020-2021)

(Department of marathi)

Name of Faculty Member: A.M. CHISHTI

Term	Month	Working days	Theory Periods	Practical Periods	Total Periods
First Term	November	22	73	—	73
	December	26	86	—	86
	January	24	85	—	85
	February	23	70	—	70
	March	06	20	—	20
Total 1		101	334	—	334
Second Term	April	20	75	—	75
	May	23	77	—	77
	June	26	85	—	85
	July	26	90	—	90
	August	06	20	—	20
Total 2		101	347	—	347
Total 1 + 2		202	681	—	681

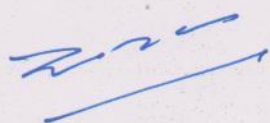
Total Working Days = 202

Total Theory Periods = 681

Total Practical Periods = Nil



Signature of Faculty Member





SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2010-2011)

Faculty : Arts / Science Department : Marathi Class : B.A./B.Sc. / M.A./ M.Sc.

Semester : I Paper No : I (opt) Paper Name : काव्यात्म साहित्य

Name Of Faculty : A.M. CHISHTI

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
①	निवडक कवींच्या कवितांचा अभ्यास केशवसुत - ① कोणीकडून ? कोणीकडे ? ② मूर्तिमंजन ③ तुतारी ④ कविता आणि कवी ⑤ प्रीति.	व्याख्यान	10	04 नोव्हेंबर 2020 ते 20 नोव्हेंबर 2020	
②	बहिणाबाई - चौधरी - ① मन ② संसार ③ उगवले नाशयण ④ खोपा ⑤ हिरीताचं देनं घेवं.	व्याख्यान	10	21 नोव्हेंबर 2020 ते 09 डिसेंबर 2020	
③	कुसुमाग्रज - ① सात ② माळीचे मनोगत ③ स्वप्नांची समाप्ती ④ अजबथामा ⑤ श्रीवैत्मका शिवसुंदरा	व्याख्यान	10	10 डिसेंबर 2020 ते 26 डिसेंबर 2020	
④	नाशयण सुर्वे - ① दोन दिवस ② मनीऑउर ③ कार्ममाक्स ④ तूमचंय नाव निवा ⑤ चार शब्द.	व्याख्यान	10	30 डिसेंबर 2020 ते 14 जानेवारी 2021	

Signature of Faculty

Principal



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2010-2011)

Faculty : Arts / Science Department : Marathi Class : B.A./B.Sc. / M.A. / M/Sc.

Semester : III Paper No : III (SL) Paper Name : गद्य-पद्य उपयोजित मराठी

Name Of Faculty : A.M. Chishki

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
①	गद्य विभाग				
①	छत्रपती शिवाजी महाराजांच्या कार्यविषय स्वरूप - प्र. न. देशपांडे	व्याख्यान	20	05 नोव्हेंबर 2020 ते 05 डिसेंबर 2020	
②	लोकसंस्कृती आणि जागतिकीकरण - डॉ. द. ता. क्षीरसे	"			
③	मरणानं डव साधला नाशिवानं हात दिला - सौ. सिंधुताई सपकाळ	"			
④	लोकशाही मा. द्या. पवारसाहेब - प्रा. लक्ष्मण ढीबळे	"			
⑤	वही - सुरेश पाटील (इलेक्टर)	"			
②	पद्य विभाग				
①	निष्कर्ष - सुराक्षीनी इलेक्टर	व्याख्यान	20	10 डिसेंबर 2020	
②	आकाशापुवढा - सदानंद सिनगारे	"		ते 14 जानेवारी	
③	साध्या बरालान्य लागली वाळवी - प्रदीप पाटील	"		2021	
④	कुणबी माझा - अनिल गव्हाणे	"			
⑤	वीरसा - बाबाशिव मडावी	"			
⑥	अखंड दाशरूण वाहेर पडताना - संजिवनी तडेगावकर	"			

Signature of Faculty

Principal



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2020-2021)

Faculty : Arts / Science

Department : Marathi

Class : B.A./B.Sc. / M.A./ M.Sc.

Semester : III

Paper No : III (SL)

Paper Name : गद्य-पद्य उपयोजित मराठी

Name Of Faculty : A.M. Chishti

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
③	उपयोजित मराठी				
①	परिभाषा : तंत्र स्वरूप उपयोजन - स्वरूप व वैशिष्ट्ये. परिभाषेची आवश्यकता, ब्रासन व्यक्त - शतील परिभाषा, कार्यालयीन परिभाषा.	व्याख्यान	20	15 जानेवारी 2021 ते 18 फेब्रुवारी 2021	
②	आकाशवाणी प्रसार माध्यम ; लेखनतंत्र व उपयोजन - श्राव्यमाध्यम आकाशवाणी या प्रसार-माध्यमचे घटक, बातमी, श्रुतिका, नभोनाथ.	- " -			
③	पुस्तक परिचय - तंत्र व स्वरूप - वाङ्मय - वाङ्मयेत्तर लेखनाचा परिचय - कथा, कादंबरी, कविता.	- " -			
④	जलनियोजन ; तंत्र व स्वरूप - जलनियोजनाचे महत्त्व, जलनियोजन घरणे आणि शेती - घरणातील जलनियोजन, पिण्यासाठी जल - नियोजन.	- " -			

Signature of Faculty

Principal

Shrikrishna Mahavidyalaya, Gunjoti
Tal. Omega Dist. Osmanabad



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2020-2021)

Faculty : Arts / Science Department : Marathi Class : B.A./B.Sc. / M.A./ M.Sc.

Semester : III Paper No : VI (opt) Paper Name : हकब्राव्य माध्यमांसाठी लेखन

Name Of Faculty : A.M. CHISHTI

कौशल्या

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
①	नभोवाणी	व्याख्यान	20	02 नोव्हेंबर 2020	
1.1	नभोवाणी स्वरूप आणि कार्य			ते 09 डिसेंबर	
1.2	नभोवाणी संप्रेषण			2020	
1.3	नभोवाणीवरील भाषण चर्चा व मुनाखत				
1.4	नभोवाणीवरील वातमीपत्रे				
1.5	रूपक, श्रुतिका आणि नभोनाट्य				
1.6	नभोवाणीच्या जाहिराती.				
②	दूरचित्रवाणी	व्याख्यान	20	10 डिसेंबर 2020 ते	
①	दूरचित्रवाणी स्वरूप कार्य व विस्तार			13 जानेवारी	
②	दूरचित्रवाणी लेखन व निर्मिती			2021	
③	दूरचित्रवाणी कार्यक्रमांचे प्रकार				
④	दूरचित्रवाणीवरील वातम्या				

Signature of Faculty

Principal



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2010 -2011)

Faculty : Arts / Science Department : Marathi Class : B.A./B.Sc. / M.A./ M.Sc.

Semester : III Paper No : VI (opt.) Paper Name : द्वैतशास्त्र माह्यमासाठी लेखन कौशल्य

Name Of Faculty : A.m. chishti

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
3	संकेतस्थळ	व्याख्यान /	20	14 जानेवारी 2021	1
1	संकेतस्थळ संकल्पना आणि उपयोजन	प्रत्याक्षिक		ते 18 फेब्रुवारी	11
2	संकेतस्थळाचा परिचय			2021	5-1
3	संकेतस्थळावर साहित्यविषयक दृष्टांतू				5-1
4	ई - डिक्शनरी, विषयकोष				1-1
					2-1
					3-1
					4-1
					5-1
					6-1
					7-1
					8-1
					9-1
					10-1
					11-1
					12-1
					13-1
					14-1
					15-1
					16-1
					17-1
					18-1
					19-1
					20-1

Signature of Faculty

Principal

Shrikrishna Mahavidyalaya, Gunjoti
Tq. Omerga Dist. Osmanabad



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2010-2011)

Faculty : Arts / Science Department : Marathi Class : B.A./B.Sc. / M.A./ M.Sc.

Semester : V Paper No : IX Paper Name : भारतीय साहित्यविचार

Name Of Faculty : A.M. Chishti

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
1.	साहित्याचे स्वरूप - व्याख्या (भामह, दण्डी, हेमचंद्र, रघुपट, मम्मट, विश्वनाथ व इतर संस्कृत अभ्यासकांच्या मतांचा विचार) साहित्याची लक्षणे - अलंकार, रिती, वक्त्रोक्ती, औचित्य, ध्वनी, रस.	व्याख्यान	15	02 नोव्हेंबर 2020 ते 01 डिसेंबर 2020	
2.	साहित्याचे प्रयोजने - भामह दण्डी भरतमुनी अदींची मते मम्मटाचा प्रयोजनविचार.	व्याख्यान	10	04 डिसेंबर 2020 ते 19 डिसेंबर 2020	
3.	साहित्याची निर्मितीप्रक्रिया - प्रतिभा, व्युत्पन्नता अभ्यास व इतर पुरक कारणे.	व्याख्यान	10	21 डिसेंबर 2020 ते 08 जानेवारी 2021	
4.	रसविचार - भरताचे रससूत्र महलोल्लस, श्रीशंकर, महनायक व आभिनवगुप्त यांच्या मतांचा विचार, रससंख्या, रसविदने.	व्याख्यान	15	09 जानेवारी 2021 ते 05 फेब्रुवारी 2021	
5.	शब्दशक्ती व अर्थविचार - आभिधा, लक्षणा, व्यंजना	व्याख्यान	10	06 फेब्रुवारी 2021 ते 23 फेब्रुवारी 2021	

Signature of Faculty

Principal



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2010-2011)

Faculty : Arts / Science Department : Marathi Class : B.A./B.Sc. / M.A./ M.Sc.

Semester : V Paper No : XI Paper Name : मध्ययुगीन मराठी वाङ्मयाचा इतिहास

Name Of Faculty : A.m. Chiswani

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
1	मराठीचा प्रारंभकाल व मुकुंदराज	व्याख्यान	10	02 नोव्हेंबर 2020 ते 21 नोव्हेंबर 2020	
2.	महानुभाव पंथ आणी त्यांचे वाङ्मयीन कार्य - महानुभाव पंथाचे पंचकूळ, महानुभाव पंथाचे तत्त्वज्ञान महानुभावांचे वाङ्मयीन कार्य महानुभावियांचे ग्रंथ साहित्य पद्य साहित्य.	व्याख्यान	12	23 नोव्हेंबर 2020 ते 14 डिसेंबर 2020	
3.	वारकरी संप्रदाय आणी त्यांचे वाङ्मयीन कार्य. ① संत ज्ञानेश्वर, संत नामदेव, ज्ञानेश्वर पंचक, जनाबाई, चौधामेळा, कर्ममेळा, गोरकुंभार, विशोबा खेचर, सावतामाळी, नरहरी सोनार, परिसा भागवत, सेना ज्हावी, काव्हीपात्रा.	व्याख्यान	20	15 डिसेंबर 2020 ते 19 जानेवारी 2021	
4.	वहामनीकालीन मराठी साहित्य - दत्त संप्रदाय दासोपंत, संत पुकनाथ, संत पुकनाथांची वाङ्मय रचना.	व्याख्यान	10	22 जानेवारी 2021 ते 08 फेब्रुवारी 2021	

Signature of Faculty

Principal



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2010-2011)

Faculty : Arts / Science

Department : Marathi

Class : B.A./B.Sc. / M.A./M.Sc.

Semester : IV

Paper No : IV (SL)

Paper Name : गद्य - पद्य व उपयोजित मराठी

Name Of Faculty : A.m. Chishti

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
	गद्य विभाग				
1.	चिपाड - अंबादास केदार	व्याख्यान	20	08 पुप्रिल 2021 ते	
2.	मिरगीपर - विजय जावळे			13 मे 2021	
3.	काहूर - अंजली भयवान				
4.	गायान - एकनाथ खिल्लारे				
5.	भूक - उमेश मोहिते				
	पद्य विभाग	व्याख्यान	20	13 मे 2021 ते	
1.	गर्भशायत असताना - म. मो. जोशी			17 जून 2021	
2.	आवा - शिवाजी मारुती पाटील				
3.	पाचटाच्या मुलुखाले - कल्पना दुहाळ				
4.	जागलं - शिवाजी मरुती				
5.	कळसूनी वाहूली - भारती रेवडकर				
6.	हिशोव चुकता करा - वि. सो. वराह				

Signature of Faculty

Principal



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2010-2011)

Faculty : Arts / Science Department : Marathi Class : B.A./B.Sc. / M.A./ M/Sc.
 Semester : IV Paper No : IV (SU) Paper Name : गद्य - पद्य व उपयोजित मराठी -
 Name Of Faculty : A.m. Chisuti

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
	उपयोजित मराठी				
①	संगणक क्षेत्रातील संकल्पना : स्थूल परिचय - सॉफ्टवेअर, हार्डवेअर, विंडोज, फॉन्ट, डेटा संगणकाची कौशल्ये, भारतीय समाजावरील संगणकाचा प्रभाव.	व्याख्यान / प्रत्यक्षिक	20	18 जून 2010 ते 22 जुलै 2010	
②	संगणकाची वैशिष्ट्ये - अचूक काम, पुनंचुक्रवर्णन कामाची सलगता, माहितीचे संक्रमण व सादरीकरण, कामाची विविधता, स्वविचारक्षमता नाही.				
③	मराठी समाजावरील संगणकाचा प्रभाव - सामाजिक क्षेत्राचे महत्त्व, निवडणूक व मतदान क्षेत्र, हवामान - चा अंदाज वैज्ञानिक संशोधन साहित्य क्षेत्रातील उपयोग.				
④	इंटरनेट : स्वरूप आणि कार्यप्रणाली - इंटरनेट अर्थ आणि व्याख्या वेबसाइट, ई-मेल-चॅट, सर्चिंग वाडुझिंग अकाउंट इंटरनेटचा भारतीय समाजावरील प्रभाव, सामाजिक परिवर्तन, हवामानाचा अंदाज.				

Signature of Faculty

Principal

Shrikrishna Mahavidyalaya, Gunjoti
Tq. Omurga Dist. Osmanabad



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2010-2011)

Faculty : Arts / Science Department : Marathi Class : B.A./B.Sc. / M.A./M.Sc.

Semister : IV Paper No : VIII Paper Name : साहित्य प्रकारांतर आणि साहित्याचे माध्यमांतर

Name Of Faculty : A.m.chisoti

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
①	साहित्य प्रकारांतराची संकल्पना व स्वरूप .	व्याख्यान	15	05 सुप्रिन 2021	
1.1	साहित्य प्रकारांतर म्हणजे काय ?			ने 04 मे 2021	
1.2	साहित्य प्रकारांतर : मूळ स्वनाबंध मोडून नवा स्वनाबंधाची निर्मिती.				
1.3	वाङ्मय प्रकारांतराची लेखकाना वाटणारी आवश्यकता (उदा. पुकाकिकेचे नाटक, कादंबरीचे नाटक करणे)				
1.4	साहित्य प्रकारांतराची काही उदाहरणे				
②	'माध्यम' संकल्पना : प्रकार व वैशिष्ट्ये	व्याख्यान	15	05 मे 2021 ने	
2.1	महत्त्वाची माध्यमे : सुप्रित, ज्ञाव्य व हृकप्राव्य माध्यम			22 जून 2021	
2.2	माध्यमे व साहित्य यांचा अनुबंध				
2.3	माध्यमांसाठी साहित्याची आवश्यकता				
2.4	माध्यम : आधुनिक काळाची गरज				

Signature of Faculty

Principal



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2020-2021)

Faculty : Arts / Science Department : Marathi Class : B.A./B.Sc. / M.A./ M.Sc.

Semester : IV Paper No : VIII Paper Name : साहित्य प्रकारांतर आणि साहित्याचे

Name Of Faculty : A.M. Chishti

माध्यमंतर

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
3	माध्यमासाठीचे लेखन -				
3.1	मुद्रित साहित्यासाठीचे लेखन (स्थूल परिचय)	व्याख्यान	05	03 जून 2021 ते	
3.2	सदर लेखन, स्फुटलेखन, अग्रलेख, ग्रंथपरिचय इ.			10 जून 2021	
3.3	प्राच्य साहित्यासाठीचे लेखन - श्रुतिका व नभोनाट्य लेखन.	व्याख्यान	05	14 जून 2021 ते 21 जून 2021	
3.4	एक-प्राच्य साहित्यासाठीचे लेखन - पटकथा लेखन (मालिकेसाठी) साहित्य विषयक अन्य कार्यक्रम उदा. वाचन तर वाचन साहित्यविषयक गोष्ठा, मुलाखती इ. माध्यम लेखनाची वैशिष्ट्ये उदा. संवाद लेखन चित्रिकांमध्ये भान असणे, हवनी संयोजन पार्श्वसंगीताच्या वापर, कथेच्या गुंफणीतील रहस्यमयता इ.	व्याख्यान	10	22 जून 2021 ते 07 जुलै 2021	

Signature of Faculty

Principal



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2010-2011)

Faculty : Arts / Science Department : Marathi Class : B.A./B.Sc. / M.A./ M.Sc.

Semester : VI Paper No : XIII Paper Name : पाश्चात्य साहित्यविचार

Name Of Faculty : A.m. chisur

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
1.	साहित्याचे स्वरूप - व्याख्या - हॅमलिट, रस्किन, कोलरिज, कार्टर, कोल्फीन, वॉस्वर्थ, मॅथ्यू अर्नोल्ड, कोट (व इतर) लक्षणे - कल्पना, भावना, बुद्धी, लयबद्धता, शैली.	व्याख्यान	12	05 सुप्रिन 2021 ते 26 सुप्रिन 2021	
2.	साहित्याची प्रयोजने - पलायनवाद, स्वप्नरंजन, जिज्ञासापूर्ती, आत्माविष्कार, उद्बोधन, विरचन (कॅथॉर्सिस) व प्रचार	व्याख्यान	12	27 सुप्रिन 2021 ते 18 मे 2021	
3.	साहित्याची निर्मितीप्रक्रिया - सिगमंड फ्रॉइड, कार्ल गुस्ताव युंग, फ्रेड्रिक प्रिस्कांड, कोलासिज, टी. युस. पुनियट, मॅरे कायगर यांचे निर्मिती प्रक्रियेसंदर्भात मत.	व्याख्यान	14	21 मे 2021 ते 14 जून 2021	
4.	माक्सवादी साहित्यविचार - कार्ल माक्सच्या साहित्यविषयक दृष्टीने समाजवादी वास्तववाद परात्मतेची संकल्पना बांधिलकीची संकल्पना.	व्याख्यान	12	15 जून 2021 ते 12 जुलै 2021	
5.	ऐतिहासिक व माक्सवादी समीक्षा पध्दती	व्याख्यान	10	13 जुलै ते 30 जुलै 2021	

Signature of Faculty

Principal

SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Academic Calendar For 180 Days

Faculty of Arts

Academic Year: (2020-21)

(Department of Hindi)


Name of Faculty Member: Dr. B. E. Konale

Term	Month	Working days	Theory Periods	Practical Periods	Total Periods
First Term	November	22	BA2B001 15	BA1 16	BA11 16
	December	26	19	17	17
	January	24	15	17	18
	February	23	16	16	15
	March	06	04	04	04
Total 1		101	59	60	70
Second Term	April	20	13	14	13
	May	23	15	16	15
	June	26	18	17	17
	July	26	16	18	18
	August	06	04	04	04
Total 2		111	66	69	67
Total 1 + 2		212	125	129	137

Total Working Days = 202

Total Theory Periods = 664 (664)

Total Practical Periods = 137


Signature of Faculty Member



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2010-2011)

Faculty : Arts / Science Department : Hindi Class : B.A./B.Sc. / M.A./M.Sc. → I
 Semester : I Paper No : I Paper Name : Samanya Hindi
 Name Of Faculty : Dr. B.F. Konale

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
1)	परिचय, अत्र्यालक्ष्य और उद्देश्य	व्यक्तिगत	02	2, 3 Nov	
2)	कथा लंकार - कहानी साहित्य पर पुस्तक	- 11 -	04	4 Nov to 10 Nov	
3)	स्त्री और पुरुष - प्रेमचंद	- 11 -	04	11 Nov to 18 Nov	
4)	हृदय की जीत - सुदर्शन	- 11 -	04	19 Nov to 25 Nov	
5)	दास का क -	- 11 -	04	26 Nov to 3 Dec 20	
6)	बारी - सुभद्राकुमारी चौराण	- 11 -	04	7 Dec to 10 Dec	
7)	एक लक्ष - अमृतलाल नागर	- 11 -	04	14 Dec to 17 Dec	
8)	पंच वाद - श्रीशिवराम शर्मा	- 11 -	04	21 Dec to 24 Dec	
9)	अपरिचित - मोहन राकेश	- 11 -	04	28 Dec to 31 Dec	
10)	हिन्दी भाषा-उद्भव और विकास	- 11 -	06	4 Jan to 12 Jan	
11)	देवनागरी लिपि - स्वरूप और लिख	- 11 -	06	13 Jan to 21 Jan	
12)	हिन्दी वाचन का माण्ड रूप	- 11 -	06	25 Jan to 3 Feb	
13)	वाचन-उद्भव और स्वरूप	- 11 -	06	4 Feb to 15 Feb	
14)	पाठ्यक्रम पर पुनर्विचार	- 11 -	07	16 Feb to 25 Feb	
	पुस्तक माला	- 11 -	04	1 + 4 MAR	

Signature of Faculty

Tq. Omerga Dist. Osmanab.

Principal

Shrikrishna Mahavidyalaya, Gunjoti
Tq. Omerga Dist. Osmanab.



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2010-2011)

Faculty : Arts / Science

Department : Hindi

Class : B.A./B.Sc. / M.A./M.Sc. I

Semester : I

Paper No : I

Paper Name : Samanya Hindi

Name Of Faculty : Dr. B. E. Konale

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
1)	पिठक और उद्देश्य	आलोचना	02	5, 6 April	
2)	काँट की नींव	कथामुद्र	02	7 Apr. 12 Apr.	
3)	कुरुक्षेत्र का आदेश	- 11 -	03	15 Apr. 20 Apr.	
4)	पिठक का	- 11 -	04	22 Apr. 29 Apr.	
5)	दुर्गा का दिन	- 11 -	04	30 Apr. 5 May	
6)	उत्सव का नींव	- 11 -	05	6 May to 13 May	
7)	दुर्गा का दिन	- 11 -	04	17 May to 20 May	
8)	म. श. 62 और व.	- 11 -	04	29 May to 3 Jun	
9)	आचार्य के रक्त - संशोधन, पत्रिका	आलोचना	05	7 Jun to 16 Jun	
10)	पंचांग - विज्ञान, सामाजिक, सांस्कृतिक	- 11 -	05	17 Jun to 29 Jun	
11)	कुरुक्षेत्र में हिन्दू का पुनर्जागरण	- 11 -	05	30 Jun to 9 July	
12)	आलोचना का संकल्प और मंद	- 11 -	08	14 July to 26 July	
13)	पिठक पर पद्य	- 11 -	04	27 July to 2 Aug	
14)	पुस्तकालय पद्य	- 11 -	03	3 Aug to 5 Aug	

Signature of Faculty

Principal

Shrikrishna Mahavidyalaya, Gunjoti



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2010-2011)

Faculty : Arts / Science

Department : Hindi Class : B.A./B.Sc./M.A./M.Sc. III

Semester : V

Paper No : X

Paper Name : Aditya Madhya

Name Of Faculty : Dr. B. E. Konare

- Yugon Sahitya Ka Itihas

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
1)	प्राचिन काल, आरंभ काल	परिचय	02	4, 5 Nov.	
2)	हिन्दू साहित्य-लेखन-लेखक-संस्कृत-संस्कृत	- 11 -	06	6 Nov to 14 Nov.	
3)	आर्यकाल के परिस्थितियाँ	- 11 -	06	18 Nov to 26 Nov.	
4)	वैशाली, जैन, शिखर तथा मौर्य संस्कृत	- 11 -	05	27 Nov to 4 Dec	
5)	सम्राज्य-संस्कृत, विभाजन, साम्राज्य	- 11 -	06	5 Dec to 16 Dec	
6)	आर्यकाल के परिस्थितियाँ	- 11 -	06	17 Dec to 26 Dec	
7)	सम्राज्य-संस्कृत - 21 म, कृष्ण आर्य	- 11 -	05	30 Dec to 6 Jan.	
8)	विभाजन-संस्कृत, संस्कृत	- 11 -	05	7 Jan 16 Jan.	
9)	सम्राज्य के परिस्थितियाँ	- 11 -	06	20 Jan to 28 Jan.	
10)	सम्राज्य-संस्कृत-संस्कृत, संस्कृत, संस्कृत	- 11 -	03	29 Jan 4 Feb.	
11)	सम्राज्य-संस्कृत, संस्कृत, संस्कृत	- 11 -	05	5 Feb 13 Feb.	
12)	प्राचिन काल पर पुनर्व्याख्या	- 11 -	07	17 Feb. to 27 Feb.	
13)	सम्राज्य	- 11 -	04	3 Mar to 6 Mar	

Dr. B. E. Konare

Signature of Faculty

[Signature]
Principal



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2010-2011)

Faculty : Arts / Science

Department : Hindi

Class : B.A./B.Sc./M.A./M.Sc. II

Semester : VI

Paper No : XIV

Paper Name : Adhunik Hindi Sahitya

Name Of Faculty : Dr. B.F. Korale

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
1)	पुष्पक विमान	— 11 —	02	7, 8 Apr.	
2)	श्रीकृष्ण कथ	— 11 —	03	9, 10 Apr.	
3)	कालिदास - भारतवर्ष की कविता	— 11 —	03	15 Apr to 17 Apr	
4)	द्वितीय कालिदास कविता	— 11 —	02	22, 23 Apr.	
5)	दशमस्कन्ध कविता	— 11 —	03	24 Apr 29 Apr.	
6)	पुष्पकविता कविता	— 11 —	03	30 Apr to 6 May	
7)	पुष्पकविता कविता	— 11 —	02	7, 8 May.	
8)	शर कविता	— 11 —	02	12, 13 May.	
9)	रामकथन कविता	— 11 —	02	14, 15 May.	
10)	दशम आदिवाक्य कविता	— 11 —	02	19, 20 May.	
11)	रघुनाथर - कालिदास	— 11 —	10	21 May to 9 Jun	
12)	रघुनाथर - कालिदास, कालिदास अथवा (कालिदास) कविता	— 11 —	10	10 Jun to 25 Jun	
13)	रघुनाथर - कालिदास, कालिदास अथवा (कालिदास) कविता	— 11 —	10	26 Jun 14 July	
14)	पुष्पक विमान	— 11 —	10	15 July to 31 July	
15)	पुष्पक विमान	— 11 —	04	4 Aug to 7 Aug	

Signature of Faculty

Principal
Shrikrishna Mahavidyalaya, Gunjoti
Dist. Osmanabad

SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Academic Calendar For 180 Days

Faculty of Arts

Academic Year: (2020-21)

(Department of Hindi)

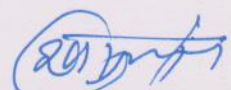
Name of Faculty Member: Dr. Mahadeo Chintamani /shot

Term	Month	Working days	Theory Periods		Practical Periods			Total Periods
			I	II	I	II	III	
First Term	November	22	16	15	14	14	15	74
	December	26	18	17	18	16	17	86
	January	24	16	16	14	17	17	80
	February	23	15	15	16	15	15	76
	March	06	04	04	04	04	04	20
Total 1		101	69	67	66	66	68	336
Second Term	April	20	12	15	14	14	13	68
	May	23	13	15	16	15	14	73
	June	26	18	16	18	17	17	86
	July	28	16	20	16	18	18	88
	August	06	04	04	04	04	04	20
Total 2		101	63	70	68	68	66	335
Total 1 + 2		101+101=202						671

Total Working Days = 202

Total Theory Periods = 671

Total Practical Periods = _____


Signature of Faculty Member



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2010-2011)

Faculty : Arts / Science Department : हिंदी Class : B.A./B.Sc. / M.A./ M.Sc.

Semester : I Paper No : हिंदी II Paper Name : _____

Name Of Faculty : प्रा. डॉ. सभ. सी. खोत नाटक संहिता

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
1.	विजयपर्व		22	नोव 4, 5, 6, 11, 12, 13 18, 19, 20, 25, 25, 26, 27 डिसे 2, 2, 3, 4, 9, 9.	
2.	हरी: प्रमचंद नाथसंगीत		22	डिसे 10, 11, 16, 16, 17, 18, 23 23, 24, 30, 30, 31. जीम 6, 6, 7, 8, 13, 13, 14, 15, 20, 20, 21	
3.	आरंभ आजादी की.		25	जीम 28, 27, 27, 28, 29 फेब 3, 3, 4, 5, 10, 10, 11, 12 17, 17, 18, 24, 24, 25, 26 मार्च 3, 3, 4, 5	

Signature of Faculty

Principal



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (201 -201)

Faculty : Arts / Science

Department : _____

Class : B.A./B.Sc. / M.A./ M.Sc.

Semester : II

Paper No : IV

Paper Name : _____

Name Of Faculty : _____

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
1.	एकंकी नद पुराण		4	एप्रिल 7, 7, 8, 9.	
2.	शरणागत		4	15, 16, 22, 23	
3.	महाभारत की सौंझ		4	28, 28, 29, 30	
4.	कातं 522		4	4. 5, 5, 6, 7	
5.	शरणा बंद है		4	12, 12, 13, 19	
6.	कुमार धरती		4	19, 20, 21, 27	
7.	पडासात का कूट		4	28, 29, 2, 2, 3	
2.	प्रातिनिधि माइका एकंकी		4	4 9, 9, 10, 11,	
1.	डॉक्टर शाहब भी अजीब है।		4	16, 16, 17, 18	
2.	एक और दिन		4	23, 23, 24, 25	
3.	जान से प्यार		4	30, 30, 31, 1, 2,	
4.	मादा मित्र		4	3, 3, 4, 9	
5.	उधम		4	14, 14, 15, 16	
6.	कांकाद और नारी		5	22, 23, 28, 28, 29	
7.	कुपीतकसु का राजकथ		3	30 31/1/2 4, 4	
8.	कुमाद किरतकार		3	5, 6.	

Signature of Faculty

Principal



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2010-2011)

Faculty : Arts / Science Department : हिंदी Class : B.A./B.Sc. / M.A./M.Sc.

Semister : III Paper No : हिंदी III Paper Name : सामान्य हिंदी

Name Of Faculty : पा. डॉ. एम. सी. खेत

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
अ. 1	मेरा जीवन		4	मे 5, 5, 6, 7	
2	निर्दोष मार		5	12, 12, 13, 19, 19	
3	कुसुमा		5	20, 21, 26, 26, 27	
4.	हृदय के फूल		5	28, 29, 33, 34, 5	
5.	सांडीपर सांडीपर		2	10, 10	
अ. 1.	प्रयाजनमूर्तु भाषा के स्वरूप एवं महत्व		3	11, 12, 17	
2.	भाषा की परिभाषा, विशेषताएं एवं महत्व		4	17, 18, 19, 24	
3.	वैश्विकता के परिप्रेक्ष्य में हिंदी भाषा का महत्व		4	24, 26, 31, 31	
4.	भाषा शिक्षण के प्राकृतिक		4	जाने 1, 2, 7, 7	
5.	भाषा की शक्ति		8	8, 9, 14, 14	
6.	वाणिक्य व्यापार: लाभ एवं स्वरूप		4	15, 16, 21, 21	
7	वाणिक्य व्यापार के साधन		4	22, 23, 28, 28	
8.	वाणिक्य व्यापारिक भाषा की संरचनात्मक विशेषताएं		4	29, 30, 34, 4, 4	
9.	व्यापारिक पत्रकारिता		4	5, 6, 11, 11	
10	वाणिक्य व्यापार एवं भाषिक प्रकाश		4	12, 13, 18, 18	
11	निबंध लाभ स्वरूप, निबंध रचना		8	20, 25, 25, 26, 27 मार्च 4, 5, 6	

Signature of Faculty

Principal



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2010 -2011)

Faculty : Arts / Science

Department : Hindi

Class : B.A./B.Sc. / M.A./M.Sc. II

Semester : IV

Paper No : IV

Paper Name : _____

Name Of Faculty : _____

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
अ. 1	स्त्रीधर		4	8,8,9,10	
2.	कुरु कुमर हो गये		4	15,15,16,17	
3.	जहाँ आकाश नहीं दिखता		4	22,22,23,24	
4.	कुराना लोडा, परिवार नहीं		5	29,29,30, 6,6.	
5	श्यामो द्वयानंद		5	7,8,13,13,15	
आ. 1.	मिडियां नखल जलसंधार माध्यम विविधरूप		5	20,20,21,22,27	
2.	श्यामो द्वयानंद, रडिया फीचर नखल		5	27,28,29, 3,3.	
3.	वैशालिक लक्ष्मि कुंभार नखल श्यामो द्वयानंद		5	4,5,10,10,11,12	
4.	पारिभाषिक शब्दावली श्यामो द्वयानंद		5	12,17,17,18,19	
5	पारिभाषिक शब्दावली वैशालिक (अ) पारिभाषिक		4	24,24,25,26	
6	वैशालिक लक्ष्मि कुंभार अनुवाद श्यामो द्वयानंद		4	30 1,1,2,3,	
7.	अशुभ शोधन शब्द वाक्य मुद्रित शोधन		4	8,8,9,10	
8.	अनुवाद का आ. अनुवाद		4	15,15,16,17	
9	मिडियां अनुवाद		42	22,22,23,24,29,29,30	
				31 आ. 5,5,6,7	

Signature of Faculty

Principal



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2010-2011)

Faculty : Arts / Science Department : Hindi Class : B.A./B.Sc. / M.A./M.Sc. II

Semester : III Paper No : V Paper Name : प्रयोजन मुक्त हिंदी

Name Of Faculty : डॉ. महोदय खेतन

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
१.१.	हिंदी नाम कुल एवं विभिन्न उत्कर्ष		3	जाने 2,2,3	
2	भारतीय आर्य भाषा विकास। मनु सामान्य भाषा		3	3,3,3	
3.	हिंदी भाषा का प्रसिद्ध विकास		4	10,10,17,17	
4.	हिंदी भाषा का जांतरा कृषि परिदृश्य		2	23,23	
2 1.	मानक भाषा सकारण एवं स्वरूप		4	24,24,15,1,1	
2.	भाषा मानककरण प्रक्रिया पर्यवेक्षण विद्यालयों		4	7,7,8,8	
3.	मानक भाषा उ श्रमपत्र संरचना मनु विद्यालयों		4	14,14,15,15	
4.	मानक हिंदी का विकास यथा		4	21,21,22,22	
3. 1	लिपि उद्भव और विकास लिपि कुल नाम		4	28,28,29,29	
2	द्वन्वारी लिपि का उद्भव और विकास		4	जाने 4,4,5,5	
3.	द्वन्वारी लिपि का वैज्ञानिकता		4	11,11,12,12	
4	इसका विकास एवं द्वन्वारी लिपि		5	18,18,19,19,25	
4 . 1	प्रयोजन मुक्त हिंदी नाम कुल नामकरण पर भाषा		73	25,25,33,33,1,1,2,2	
	एवं श्रमपत्र विद्यालय			89,9,9,15,15	
2	प्रयोजन मुक्त हिंदी प्रयोग एवं प्रयुक्ति		70	16,16,22,22,23,23	
				जाने 1,1,2,2	

Signature of Faculty

Principal



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2010-2011)

Faculty : Arts / Science Department : Hindi Class : B.A./B.Sc./M.A./M.Sc. II

Semester : IV Paper No : III Paper Name : प्रवेशन प्रश्न पत्र

Name Of Faculty : डॉ. मरियम खान

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
1	1. पारिभाषिक शब्दावली तथा प्रमुख पारिभाषिक शब्दावली		4	11, 10, 5, 5, 6, 6	
	2. पारिभाषिक शब्दावली निष्कर्षां कुशिकां रंग सुशिक्षित प्रश्न		4	12, 12, 19, 19	
	3. भाषाशास्त्र पारिभाषिक शब्दावली समावेश		4	20, 20, 28, 26	
	4. हिंदी शब्दावली पारिभाषिक शब्दावली		4	27, 27, 31, 3, 3	
2	1. राजभाषा एवं राजभाषा अध्यायों में व्यवहार		4	4, 4, 10, 10	
	2. राजभाषा हिंदी का राजभाषा परिषद संवैधानिक प्रावधान		4	11, 11, 17, 17	
	3. राजभाषा हिंदी प्रचार प्रसार एवं सम्मान		5	18, 18, 24, 24, 25	
	4. राजभाषा हिंदी का प्रचार प्रसार तथा भाषा का विकास		5	25, 31, 31, 31, 1, 1	
	सुभाषचंद्र बोस का योगदान				
3	1. प्रवेशन प्रश्न पत्र हिंदी प्राथमिक शिक्षण विभाग में व्यवहार		4	7, 7, 8, 8	
	2. संस्थापक प्रतिपद संस्थापक शिक्षण में व्यवहार		4	14, 14, 15, 15	
4	3. प्रवेशन प्रश्न पत्र हिंदी अनुवाद संस्कृत में प्रश्न		8	21, 21, 22, 22, 28, 28, 29, 29	
	2. अथर्ववेद अनुवाद संस्कृत अनुवाद संस्कृत में		64	29, 29, 31, 5, 5, 6, 6, 12, 12	
	संस्थापक			13, 13, 19, 19, 20, 20, 26, 26	
	3. जनशक्ति माध्यमों के अनुवाद संस्कृत में		8	27, 27, 31, 31, 27, 33	
	संस्थापक				

मरियम खान
Signature of Faculty

Principal
Principal
Shrikrishna Mahavidyalaya, Gunjoti



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2010 -2011)

Faculty : Arts / Science Department : Hindi Class : B.A./B.Sc. /M.A./M.Sc. II

Semister : V Paper No : IX Paper Name : प्राथमिक भाषा साहित्य

Name Of Faculty : डॉ. महेश खेवा

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
1.	<u>प्रतिनिधि कृष्णी - मरिचि</u> <u>डॉ. महाश्वरानन्द</u>		33	<u>नोव 2,3,6,7,9,10,13</u> <u>17,20,21,23,24,27,28</u> <u>15,17 1,4,5,7,8,11,12,</u> <u>14,15,18,19,21,22,26</u> <u>28,29, शीत 1,2,4</u>	
2	<u>पराया - लक्ष्मी मान</u>		33	<u>शीत 5,8,9,11,12,15,16</u> <u>18,19,22,23,25,29,30</u> <u>1,2,3,1,2,5,6,8,9,12,13,</u> <u>15,20,22,23,26,27</u> <u>नव 1,2,5,6</u>	

Signature of Faculty

Principal
Principal



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2010 -2011)

Faculty : Arts / Science Department : Hindi Class : B.A./B.Sc. / M.A./M.Sc. III
Semester : V Paper No : 21 Paper Name : _____
Name Of Faculty : डॉ. महेश खेडा साहित्य शास्त्र

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
1. 1	साहित्य का स्वरूप एवं तात्पर्य		2	नोव 4, 5	
2.	संस्कृत आचार्यों द्वारा प्रस्तुत साहित्य के परिभाषाएँ		2	6, 7	
3.	पश्चात् आचार्यों द्वारा प्रस्तुत साहित्य के परिभाषाएँ		2	11, 12	
4.	हिंदी विद्वानों द्वारा प्रस्तुत साहित्य के परिभाषाएँ		2	13, 18	
2. 1	साहित्य के तत्व - भावतत्व		2	19, 20	
2.	विचार एवं बुद्धितत्व		3	21, 25, 26	
3.	कल्पित तत्व		3	27, 28, 29	
4.	शैली तत्व		3	3, 4, 5	
3. 1.	साहित्य के प्रयोजन एवं तात्पर्य		2	9, 10	
2.	संस्कृत आचार्यों द्वारा प्रस्तुत साहित्य के प्रयोजन		2	11, 12	
3.	पश्चात् आचार्यों द्वारा प्रस्तुत साहित्य के प्रयोजन		2	16, 17	
4.	हिंदी विद्वानों द्वारा प्रस्तुत साहित्य के प्रयोजन		2	18, 19	
4- 1	साहित्य के हेतु एवं तात्पर्य		2	23, 24	
2.	संस्कृत आचार्यों द्वारा साहित्य के हेतु		3	26, 30, 31	
3.	पश्चात् आचार्यों द्वारा साहित्य के हेतु		3	जान 1, 2, 6	
4.	हिंदी विद्वानों द्वारा प्रस्तुत साहित्य के हेतु		5	7, 8, 9, 13, 14	

Signature of Faculty

Principal



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (201 -201)

Faculty : Arts / Science Department : _____ Class : B.A./B.Sc. / M.A./ M.Sc.
 Semester : _____ Paper No : _____ Paper Name : _____
 Name Of Faculty : _____

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
5. 1	શિક્ષણના શિક્ષણવિષયક રંગ નામક		2	15,16	
2.	શિક્ષણના કુ વિવેક મદ		2	20,21	
6. 1.	રસ કુ નામક રંગ રસકુ		2	22,23	
2.	રસ કુ મારનાર શિક્ષક		2	27,28	
3.	રસ કુ મારનાર પાશ્ચાત્ય શિક્ષક		4	29,30 31,3,4	
4.	રસનારૂપી રસરસ કુ પ્રમુખ આરબી		4	5,6 10,11	
5.	રસ કુ મદ પુ નામક પાશ્ચાત્ય		82	12,13,17,18,20,25,26	
	સુગાર, વીર, કદા રોડ મથાનક, બીમરત,			29, 11, 3, 4, 5, 6	
	મદમુતિ, શાંતિ, વિરમ, વીરમ				

Signature of Faculty

Principal



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2010-2011)

Faculty : Arts / Science

Department : Hindi

Class : B.A./B.Sc./M.A./M.Sc. III

Semester : VI

Paper No : XIV

Paper Name : साहित्यशास्त्र

Name Of Faculty : डॉ. महादेव खोत

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
1	1. आठकाय से सात्विक संन परिभाषा		1	15/10, 9	
	2. आठकाय कुसुम संन		2	8, 9.	
	3. आठकाय कुसुम		7	10, 15, 16, 17, 22, 23, 24	
2 - 1	छंद से सात्विक संन परिभाषा		1	28	
	2. छंद कुसुम संन		1	29	
	3. छंद कुसुम संन		1	30	
	अ. मालिनी छंद - चाणक्य, दादो, शेरका, कुंडलिया, शोका, हरिणी गीतिका, नरक, आदि।		8	मे. 5, 6, 7, 8, 12, 13, 15, 20	
	आ. वाणि कु छंद - इन्द्रजा, वसंत गीतिका, मालिनी, मदाकाका, शिरवारणी, भुजंगा पुष्पात, अनेका		7	20, 21, 22, 27, 28, 29 जुन 2.	
3.	1. साहित्य विधाएं संन करी करण		1	3	
	2. पुस्तक विधाओं का संन संन कुसुम संन		2	4, 5	
	3. इच्छा वृत्त्य काव्य - नाटक, कविता, श्लोक, नाटक धारा वाणि कु		6	9, 10, 11, 12, 16, 17,	
	4. प्रत्युत्तर				

Signature of Faculty

Principal

SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

2020-21.

Academic Calendar For 180 Days

Faculty of Arts

Academic Year: (2020-21)

(Department of English)


Name of Faculty Member: Shri. N. J. Pawar.

Term	Month	Working days	Theory Periods		Practical Periods		Total Periods
			B.A.I (Comp)	B.A.II (Comp)	B.A.III (Opt)	B.A.III (Major)	
First Term	November	22	19	18	15	15	67
	December	26	21	23	17	19	80
	January	24	20	18	17	14	69
	February	23	20	16	11	12	59
	March	06	-	-	-	-	-
Total 1		101	80	75	60	60	275
Second Term	April	20	17	17	14	13	61
	May	23	17	21	14	14	66
	June	26	21	23	17	18	79
	July	26	15	14	15	15	59
	August	06	-	-	-	-	-
Total 2		101	70	75	60	60	265
Total 1 + 2		202	150	150	120	120	540

Total Working Days = 202

Total Theory Periods = 540

Total Practical Periods = -


 (N. J. Pawar)
 Signature of Faculty Member


PRINCIPAL
 Shrikrishna Mahavidyalaya
 Gunjoti Tq. Omerga

SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

REVISED TIME TABLE 2018-19 (Science Faculty) W.E.r. 17-7-2018

2020-21

Dept. English

2020-21

Name of Teacher N. J. Pawar

Time →	7:00	7:50	8:40	9:30	10:35	11:25	12:15	1:35	2:25	3:15	4:05	4:55
Day ↓	To 7:50	To 8:40	To 09:30	To 10:20	To 11:25	To 12:15	To 1:05	To 2:25	To 3:15	To 4:05	To 4:55	To 5:45
MON	-	-	-	-	-	-	B.A. III Major-3H	B.A. II Comp 14	-	B.A. II Comp 14	-	-
TUE	-	-	-	-	-	-	B.A. III Major-03H	B.A. II Comp 14	-	B.A. II Comp 14	-	-
WED	-	-	-	-	B.A. III Opt-20	-	B.A. III Major-03H	B.A. II Comp 14	-	B.A. I Comp 14	-	-
THU	-	-	-	B.A. I Comp 14	B.A. III Opt-20	-	B.A. III Major-03H	-	-	B.A. I Comp 14	-	-
FRI	-	-	-	B.A. I Comp 14	B.A. III Opt-20	-	-	-	-	-	-	-
SAT	-	-	-	B.A. I Comp 14	B.A. III Opt-20	-	-	-	-	-	-	-

Note: FH4- Functional Hall; 1,2,3,4 - Hostel; BD-Botany Department; ZD-Zoology Dept.; Hall no 7,8,9,10 - Indoor stadium; 11,12,13,14- Main Building II Floor

Note: 10:20 to 10:35: National Anthem and 1:05 to 1:35 Lunch Break

Name of Teacher

N. J. Pawar

Head

N. J. Pawar

Principal

PRINCIPAL

Shrikrishna Mahavidyalaya
Gunjoti Ta. Omerga



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2020-21)

2020-21

B.A.I Year
Comp English

Faculty : Arts / Science

Department : English

Class : B.A./B.Sc./M.A./M.Sc. I

Comp English

Semester : I and II

Paper No : I and II

Paper Name : Learning Language Skills - I

Name Of Faculty : Shri. N. J. Pawar

(English - Comp)

Chapter No. Unit No.	Title / Subject Sem-I - II	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
01.	Introduction	Lecture	02	04-11 to 05-11-2020.	
02.	Prose-01. The Happy Prince	- -	04	05-11 to 11-11	
03.	Prose-02. Good Manners	- -	03	12-11 to 13-11	
04.	Poem-01. One Day I Wrote Her Name	- -	03	18-11 to 19-11	
05.	Poem-02. Ode On Solitude	- -	03	20-11 to 25-11	
06.	Grammar- Parts of Speech	- -	12	26-11 to 10-12	
07.	Prose-03. The Eyes Are Not Here	- -	03	11-12 to 16-12	
08.	Prose-04. Forgetting	- -	03	17-12 to 18-12	
09.	Grammar- Articles	- -	06	19-12 to 30-12	
10.	Poem-03. If	- -	03	31-12 to 02-01-2021.	
11.	Poem-04. My Love's Like a Red Red Rose	- -	03	06-01 to 07-01	
12.	Grammar- Precise Writing	- -	06	08-01 to 20-01	
13.	Prose-05. The Home Coming	- -	04	21-01 to 23-01	
14.	Poem-05. Stopping By Woods ^{On} a Snowy Evening	- -	03	27-01 to 28-01	
15.	Revision	- -		29-01-2021...	
16.	University Theory Exam			March 2020.	

Signature of Faculty

PRINCIPAL

Shrikrishna Mahavidyalaya
Gunjoti Tq. Omerga



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

2020-21

2020-21

B.A.I - Comp Eng

Annual Teaching - Plan Academic Year (201⁰ -201¹)

Faculty : Arts / Science Department : English Class : B.A./B.Sc. / M.A./M.Sc. I Eng-Comp
 Semester : I and II Paper No : I and II Paper Name : Learning Language Skills- I
 Name Of Faculty : Sbri. N. J. Pawar. (English-Comp)

Chapter No. Unit No.	Title / Subject Sem-II	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
17.	Prose-06. The Bet	Lecture	04	07-04 to 09-04	2021.
18.	Prose-07. The Three Questions	— " —	03	10-04 to 16-04	
19.	Poem-06. Where the Mind Is Without Fear	— " —	03	17-04 to 22-04	
20.	Poem-07. The Solitary Reaper	— " —	04	23-04 to 29-04	
21.	Grammar- Verbs- Tenses.	— " —	12	029-04 to 20-05	
22.	Prose-08. With the Photographer	— " —	03	20-05 to 22-05	
23.	Prose-09. National Prejudices	— " —	04	27-05 to 02-06	
24.	Grammar- Use of Shall - Will	— " —	04	03-06 to 05-06	
25.	Poem-08. Ozymandias of Egypt	— " —	03	09-06 to 10-06	
26.	Poem-09. Laugh and Be Merry	— " —	03	11-06 to 16-06	
27.	Grammar- Paragraph Writing	— " —	06	17-06 to 24-06	
28.	Prose-10. Playing The English Gentleman	— " —	04	24-06 to 30-06	
29.	Poem-10. The Toys	— " —	03	01-07 to 02-07	
30.	Revision	— " —		03-07-2021.	
31.	University Theory Exam			August 2021.	

Signature of Faculty

Principal

Shrikrishna Mahavidyalaya
Gunjoti Tq. Omarga



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

2020-21

Annual Teaching - Plan Academic Year (2020-2021)

B.A. II Year

Eng. Comp.

Faculty : Arts / Science

Department : English

Class : B.A./B.Sc./M.A./M.Sc.

II

Semester : III and IV

Paper No : III and IV

Paper Name : Learning Language Skills-II

Name Of Faculty : Shri. N.J. Pawar

Sem-III and IV

(English-Comp-II)

Chapter No. Unit No.	Title / Subject - Sem-III	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
01.	Syllabus	Lecture	01	02-11-2020	
02.	Prose-01. The Importance of English	- " -	03	02-11 to 03-11	
03.	Prose-02. How to Make a Speech	- " -	03	03-11 to 09-11	
04.	Poem-01. First Love	- " -	03	10-11 to 11-11	
05.	Poem-02. All The World's a Stage	- " -	03	17-11 to 18-11	
06.	Grammar- Identifying The Subordinate Clauses	- " -	10	23-11 to 07-12	
07.	Prose-03. The Night Train at Deoli	- " -	04	08-12 to 14-12	
08.	Prose-04. The Conjuror's Revenge	- " -	03	14-12 to 15-12	
09.	Grammar- Identify ^{the sentences as} simple, complex, compound	- " -	06	16-12 to 23-11	
10.	Poem-03. Next, Please	- " -	03	28-12 to 29-12	
11.	Poem-04. Father Returning Home	- " -	03	29-12 to 04-01-2021	
12.	Grammar- Punctuation Marks.	- " -	08	04-01 to 12-01	
13.	Prose-05- Luncheon	- " -	03	13-01 to 18-01	
14.	Poem-05. Dover Beach	- " -	04	19-01 to 25-01	
15.	Revision	- " -		25-01-2021	
16.	University Semester Exam	Theory.		March 2020.	

Signature of Faculty

Principal

Shrikrishna Mahavidyalaya
Gunjoti Tq. Omarga



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2010-2011)

2020-21

B.A. II Year

Eng - Comp

Faculty : Arts / Science

Department : English

Class : B.A./B.Sc./M.A./M.Se. II

Semester : III and IV

Paper No : III and IV

Paper Name : Learning Language Skills - II

Name Of Faculty : Shri. N. J. Pawar.

(English - Comp)

Chapter No. Unit No.	Title / Subject - Sem-IV.	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
17.	Prose-06. How To Avoid An Argument	Lecture	03	05-04 to 06-04	
18.	Prose-07. The Avengers	- " -	03	06-04 to 12-04	
19.	Poem-06. Gather Ye Rose Buds	- " -	03	12-04 to 19-04	
20.	Poem-07. Mirror	- " -	03	20-04 to 26-04	
21.	Conversion of the sentences as Grammar - Simple, Complex, Compound, Exclamatory	- " -	08	26-04 to 04-05	
22.	Prose-08. On Not Answering ^{The} Telephone	- " -	04	05-05 to 10-05	
23.	Prose-09. The Sporting Spirit	- " -	03	10-05 to 11-05	
24.	Identifying the Grammar - Structural Patterns	- " -	06	12-05 to 19-05	
25.	Poem-08. Sonnet 43	- " -	03	24-05 to 25-05	
26.	Poem-09. Nobody Loves Me	- " -	03	25-05 to 31-05	
27.	Grammar - Word Formation	- " -	06	31-05 to 07-06	
28.	Prose-10. The Old Man at The Bridge	- " -	03	08-05 to 09-06	
29.	Poem 10. Night of The Scorpion	- " -	03	14-06 to 15-06	
30.	Revision	- " -		15-06-2021.	
31.	University Semester Exam	Theory		August 2021.	

Signature of Faculty

PRINCIPAL
Shrikrishna Mahavidyalaya
Gunjoti Ta. Omega



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

2020-21.
B.A./B.Sc. - opt.

Annual Teaching - Plan Academic Year (201 -201)

Faculty : Arts / Science Department : English Class : B.A./B.Sc. / M.A./M.Sc. III - Eng - opt
 Semester : V - VI Paper No : IX - XIII Paper Name : 20th Century English - Literature.
 Name Of Faculty : Shri. N. J. Pawar

Chapter No. Unit No.	Title / Subject <u>Sem - V - VI.</u>	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
01.	Introduction to the Syllabus	Lecture	01	04-11-2020.	
02.	Unit - 01. Poetry 20th Century Poetry	— " —	02	05-11 to 06-11	
03.	T.S. Eliot's Poetry	— " —	02	07-11 to 11-11	
04.	Poem - 01. The Love Song of J. Alfred Prufrock (1917)	— " —	04	12-11 to 19-11	
05.	Poem - 02. Preludes (1917)	— " —	05	20-11 to 27-11	
06.	Unit - 02. Drama - Pygmalion 20th Century Drama	— " —	02	28-11 to 02-12	
07.	G.B. Shaw - Life and Works	— " —	04	03-12 to 09-12.	
08.	Drama - Pygmalion - Background	— " —	02	10-12 to 11-12.	
09.	Drama - Actwise Summary	— " —	10.	12-12 to 31-12.	
				P.T.O. →	

Signature of Faculty


 PRINCIPAL
 Shrikrishna Mahavidyalaya
 Gunjoti Tq. Omerga



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

2020-21

B.A. III - Eng

Annual Teaching - Plan Academic Year (2010 -2011)

Faculty : Arts / Science

Department : English

Class : B.A./B.Sc. / M.A. / M.Sc. III. Eng-001

Semister : V - VI

Paper No : IX - XIII

Paper Name : 20th Century English -

Name Of Faculty : Shri. N. J. Tawar

- Literature.

Chapter No. Unit No.	Title / Subject <i>Sem-V - VI</i>	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
10.	Unit-03. Fiction Songs and Lovers 20th Century Novel.	Lecture	03	01-01 to 06-01-2021.	
11.	D. H. Lawrence - Life and Works	- " -	04	07-01 to 13-01.	
12.	Novel - Songs and Lovers - Summary	- " -	10	15-01 to 30-01.	
13.	Revision	- " -		03-02-2021.	
14.	University - Sem. Theory Exams			March-April 2021.	
	<i>Sem-VI.</i>				
15.	Unit-01. Yeats's Poetry. 20th Century Poetry	Lecture	02	07-04 to 08-04.	
16.	W. B. Yeats - Life and Works	- " -	04	09-04 to 16-04.	
17.	Poem-01. Easter 1916.	- " -	04	17-04 to 24-04.	
18.	Poem-02. The Second Coming	- " -	04	28-04 to 05-05.	
19.	Poem-03. Among School Children	- " -	04	06-05 to 12-05.	
				P. T. O. →	

Signature of Faculty

PRINCIPAL
Shrikrishna Mahavidyalaya
Gunjoti, Tal. Guntur



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

2020-21

B.A. III - CAT

Annual Teaching - Plan Academic Year (2010-2011)

Faculty : Arts / Science Department : English Class : B.A./B.Sc./M.A./M.Sc.] III Eng opt.

Semester : V - VI Paper No : IX - XIII Paper Name : 20th Century English - Literature.

Name Of Faculty : Shri. N. J. Pawar

Chapter No. Unit No.	Title / Subject Sem - V - VI	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
20.	Unit - 02. Drama - Look Back in Anger 20th Century Drama	Lecture	02	14-05 to 15-05	
21.	John Osborne - Life and Works	- -	04	19-05 to 22-05	
22.	Drama - Look Back in Anger - Actwise Summary	- -	10	27-05 to 11-06	
23.	Unit - 03. Fiction - Lucky Jim 20th Century Novel	- -	02	12-06 to 16-06	
24.	Kingsley Amis - Life and Works	- -	04	17-06 to 23-06	
25.	Chapterwise Summary of the Novel.	- -	10	24-06 to 10-07	
26.	University Theory Exam. Revision Exam	- -		14-07-2021 August 2021	
*	*	*	-X-	***	

Signature of Faculty

PRINCIPAL
Shrikrishna Mahavidyalaya
Gunjoti, Gunjoti



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

2020-21

B.A. III - Major

Annual Teaching - Plan Academic Year (2010-2011)

Faculty : Arts / Science Department : English Class : B.A./B.Sc. / M.A. / M.Sc. III - Major - English
Semester : V and VI Paper No : XI and XII Paper Name : Indian Writing in English
Name Of Faculty : Shri. N. J. Pawar (Main)

Chapter No. Unit No.	Title / Subject Sem - V - VI	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
16.	Geirish Karnad - Life and Works	Lecture	03	04-05 to 10-05 15-02 to 23-02	
17.	Drama - Tughlaq - Actwise Summary	— " —	10	24-02 to 11-05 to 31-05	
	Unit - 03. Fiction				
18.	History of Indian Novel	— " —	03	01-06 to 03-06	
19.	U.R. Ananthamurthi - Life and Works.	— " —	03	07-06 to 09-06	
20.	Novel - Sampkara or A Rite for a Dead Man	— " —	10	10-06 to 28-06	
21.	Revision	— " —		29-06-2021	
22.	University - Theory Exam.			August 2021.	
— x —	— x —	— x —	— x —	— x —	

Signature of Faculty

PRINCIPAL
Shrikrishna Mahavidyalaya
Gunjoti Ta. Omerga

SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Academic Calendar For 180 Days

Faculty of Social Science

Academic Year: (2020-21)

(Department of Geography)

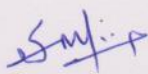
Name of Faculty Member: Dr. M.T. Suryawanshi

Term	Month	Working days	Theory Periods	Practical Periods	Total Periods
First Term 1.11.2020 to 26.03.2021	November	22	15+14+15	09+09	62
	December	26	19+16+19	12+12	78
	January	24	15+17+15	12+15	74
	February	23	16+15+16	12+12	71
	March	06	17+17+17	12+12	75
Total 1		101	82+79+82	57+60	360
Second Term 24.2021 to 21.08.2021	April	20	13+14+13	12+12	64
	May	23	16+16+16	15+12	75
	June	26	18+17+18	12+12	77
	July	26	16+18+16	12+15	77
	August	06	04+03+04	3+ -	14
Total 2		101	69+68+67	54+51	307
Total 1 + 2		202	151+147+149	111+111	667

Total Working Days = 202

Total Theory Periods = 447

Total Practical Periods = 222


Signature of Faculty Member



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (201-201) 20-21

Faculty : Arts / Science

Department : Geography

Class : B.A./B.Sc. / M.A./M.Sc.

Semester : V, VI

Paper No : XVIII

Paper Name : Practical Geography

Name Of Faculty : Dr. M. T. Suryawanshi

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
III	Representation of Bearing	Survey. Lect.		5 to 30 April, 2021	
	1. Whole Circle Bearing	use of map. Inst			
	2. Reduced Bearing	Diagrams.			
	3. FB. BB. of WCB.	Calculation.		1 to 31 May, 2021	
	4. FB. BB. of R.B.				
	5. Conversion of Bearing	— —			
	@ WCB into R.B.				
	@ RB into WCB.				
IV	1. Correction of Bearing.	— —		1 to 30 June 2021	
	2. Closing Error by Bowditch Method				
	3. Determination of the height with the help of Abney level.				
V	Representation in Geog Excursion & Submission of Report.	— —		1 to 31 July, 2021.	
VI	Certified Journal & Viva-Voce.				

Signature of Faculty

Principal

Shrikrishna Mahavidyalaya, Gunjoti



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (201 -201) 20-21.

Faculty : Arts / Science

Department : Geography

Class : B.A./B.Sc./M.A./M.Sc.

Semester : V & VI

Paper No : XVIII

Paper Name : Practical Geography

Name Of Faculty : Dr. M.T. Suryawanshi

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
I A.	Introduction of Instrumental Survey.	Survey, Lect.		1 to 30. Nov. 2020	
	① Chain & Tape Survey. ② plane Table Survey	use of map, Inst.			
	③ Prismatic Compass Survey.	Diagrams.			
B.	Field Survey using Plane Table & Prismatic Compass Survey.	— " —		1 to 31 Dec 2020	
	i) open Travers. Method				
	ii) close Travers Method				
II @	Prismatic compass survey	— " —		1 to 31 Jan. 2021	
	① open ② close.				
(b)	Importance of Aerial photography in Geographical Study.	— " —		1 to 28 Feb. 2021.	
	i) Instruments used for Aerial Survey.				
	ii) Scale of Aerial Photo.				

S. M. T.
Signature of Faculty

Principal
Principal
Shrikrishna Mahavidyalaya, Gunjoti
Tq. Omerga Dist. Osmanabad



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (201 -201) 20-21

Faculty : Arts / Science Department : Geography Class : B.A./B.Sc. / M.A./ M.Sc.
Semester : I & II Paper No : V Paper Name : Practical Geography
Name Of Faculty : Dr. M.T. Suryawanshi

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
I A.	Nature & scope of Cartography scale: Verbal.	Survey, Lect.		1 to 30 Nov. 2020	
	Numerical Liner Scale.	Use of map, Inst.			VI
B.	Types of Liner scale: Simple Comparative, Digonal Time & Dist. Space Scale.	Diagrams.			
II A.	Defination of map. History. classification.			1 to 31 Dec. 2020.	V
B.	Enlargement & Reduction of map by square Method.				
III A.	Method showing Relief.			1 to 31 Jan. 2021	
B.	Representation of slopes. With the help of contoures. Even, Uneven, Gental. concave convex. Terrassed. slope.			1 to 28 Feb. 2021.	IV

S.M.T.
Signature of Faculty

[Signature]
Principal
Shrikrishna Mahavidyalaya, Gunjoti
Tq. Omerga Dist. Osmanabad



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (~~201 -201~~) 20-21.

Faculty : Arts / Science

Department : Geography

Class : B.A./B.Sc. / M.A./ M.Sc.

Semester : IV

Paper No : VIII

Paper Name : Oceanography

Name Of Faculty : Dr. M.T. Suryawanshi

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
I	Introduction of Oceanography : Defi. Nature Scope surface Configuration of Ocean floors.	Lect. use of Map Instruments &		5 to 30 April 2021	
II	Submarine Relief: General idea, Continental shelf slope Abyssal plains, oceanic trenches. & factors affecting on salinity of Ocean water. Relief of Atlantic, Pacific, & Indian Oceans.	Diagrams. — " —		1 to 31 May 2021	
III	Salinity Temp. of oceanic water: salinity causes factors of oceanic water. Distribution of salinity in the world. Distribution of Temp. in Ocean water.	— " —		1 to 30 June 2021	
IV	Marine Deposits & Coral Reefs: Ocean Deposition shallow sea deposits, Deep sea Deposits, types of corals. Oceans as a storehouse of resources for the future.	— " —		1 to 31 July 2021.	

Signature of Faculty

Principal
Shrikrishna Mahavidyalaya, Gunjoti
Tq. Omarga Dist. Osmanabad



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (201 -201) 20-21

Faculty : Arts / Science Department : Geography Class : B.A./B.Sc. / M.A./ M.Sc.
Semester : IIIrd Paper No : VI Paper Name : Climatology
Name Of Faculty : Dr. M.T. Suryawanshi

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
I	Weather & Climate: Definition nature & Scope of Climatology, significance composition and structure of Atmosphere, weather & climate.	Lect. Use of Map Instruments & Diagrams.		1 to 30 Nov. 2020.	
II	Insolation & Temperature: Definition of insolation & Temp., Heat Budget of the Earth. Factors affecting the distribution of solar energy. Distribution of Temp: Vertical & horizontal Range of Temperature.	— " —		1 to 31 Dec. 2020.	
III	Atmospheric pressure & Winds: Evaporation & condensation, Hydrological cycle. Types of precipitation, World pattern of R.F. Regional & seasonal distribution Air masses, fronts cyclones.	— " —		1 to 31 Jan. 2021.	
IV	Role of climate in human life: Pollution & Global Warming. General Causes, Consequences.	— " —		1 to 28 Feb. 2021.	

S.M.T.
Signature of Faculty

[Signature]
Principal
Shrikrishna Mahavidyalaya, Gunjoti
Tq. Omarga Dist. Osmanabad



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (201 -201) 20-21.

Faculty : Arts / Science

Department : Geography

Class : B.A./B.Sc. /M.A./M.Sc.

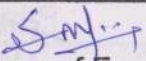
Semester : IInd

Paper No : III

Paper Name : Geography of Landform

Name Of Faculty : Dr. M.T. Suryawanshi

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
I	concept of landforms, Evaluation and types of landforms, concept of cycles of Erosion.	Lect. use of map Instruments &		5 to 30 April 2021	
II	Weathering: Types & Classification of weathering mechanical, chemical & biological. Social formation.	Diagrams.		1 to 31 May 2021.	
III	Geographic Agents and processes. Erosion, Transportation, Deposition. Landforms produced by rivers, winds and Sea waves.			1 to 30 June 2021	
IV	Landform produced by Glacier and Underground Water. Applied Geomorphology and Settlement Geomorphology & Landuse, Geomorphology and Resources.			1 to 31 July 2021.	


Signature of Faculty


Principal
Shrikrishna Mahavidyalaya, Gunjoti



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (201 -201) 20-21

Faculty : Arts / Science

Department : Geography

Class : B.A./B.Sc./M.A./M.Sc.

Semester : Ist

Paper No : I

Paper Name : Elements of Phy. Geography

Name Of Faculty : Dr. M.T. Suryawanshi

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
I	Introduction of Phy. Geography: Meaning Nature & Scope, Elements, Branches of Phy. Geography.	Lect. Use of map Instruments & Diagrams.		1 to 30 November 20	
II	Lithosphere: Interior of the Earth, Weghner's continental Drift theory, Isostasy and plate Tectonic Theories.	—		1 to 31 Dec. 2020.	
III	Earths Movements: Vertical & Horizontal, processes of folding causes and effect, processes of faulting, Causes and effect. Volcanoes. and Earthquakes.	—		1 to 31 January 2021	
IV	Rocks: classification of rocks on the basis of Origin. Properties of different rocks.	—		1 to 28 Feb 2021.	

Suryawanshi
Signature of Faculty

[Signature]
Principal
Shrikrishna Mahavidyalaya, Gunjoti
Osmanabad Dist. Osmanabad

SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Academic Calendar For 180 Days

Faculty of Social Science

Academic Year: (2020-21)

(Department of Geography)

Name of Faculty Member: Koli R.G.

Term	Month	Working days	Theory Periods			Practical Periods		Total Periods
			BAI	II	III	II	III	
First Term	November	22	14	14	16+4	08	08	94
	December	26	16	17	17 14	15	12	86
	January	24	17	18	18 15	12	15	95
	February	23	15	15	16+ 14	12	12	84
	March	06	04	04	02+ 02	03	03	18
Total 1		101	66	68	127	60	60	381
Second Term	April	20	15	16	13+ 15	15	12	86
	May	23	18	17	17+ 17	12	15	96
	June	26	17	17	18+ 17	12	12	93
	July	26	18	19	16+ 18	15	15	101
	August	06	04	04	04 04	03	03	22
Total 2		101	72	73	139	57	57	398
Total 1 + 2		202	138	141	266	137	117	779

Total Working Days = 202

Total Theory Periods = 545

Total Practical Periods = 254



Signature of Faculty Member



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2020-2021)

Faculty : Arts / Science

Department : Geography

Class : B.A./B.Sc. / M.A./ M.Sc.

Semester : I

Paper No : II

Paper Name : Human Geography

Name Of Faculty : Koli R.G.

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
I	• मानवी भूगोल - व्याख्या	व्याख्यान -	04	02.11.20 - 7.11.20	
	→ मानवी भूगोल - स्वरूप	चर्चा - उदाहरण	04	8.11.20 - 15.11.20	I
	→ मानवी भूगोल - व्याप्ती	प्रश्नोत्तर	03	16.11.20 - 24.11.20	
	→ मानवी भूगोलाच्या शारद्व्या	— 11 —	03	25.11.20 - 3.12.20	
II	• निसर्ग मानव सहसंबंध - संकल्पना	— 11 —	04	4.12.20 - 11.12.20	II
	→ शक्यतावाद -	— 11 —	04	12.12.20 - 19.12.20	
	→ संभाव्यतावाद	— 11 —	04	20.12.20 - 30.12.20	
	→ भोका व जा वाद	— 11 —	04	1.1.21 - 7.1.21	
	→ पर्यावरणाचे प्रकार	— 11 —	04	8.1.21 - 15.1.21	
III	• वंश - गट - नैसर्गिक व सामाजिक संरचना	— 11 —	04	16.1.21 - 24.1.21	III
	→ वंशिक गटानुसार आदिम जमाती - जंग व भारत	— 11 —	04	25.1.21 - 2.2.21	
	एस्कीमो, वूशमन, मसाई, गोंड व गुज्जर	— 11 —	04	3.2.21 - 10.2.21	
IV	• मानवी वसाहती - निर्मितीचे शरक	— 11 —	04	11.2.21 - 20.2.21	IV
	वसाहती प्रकार व वसाहतीची प्रारूपे	— 11 —	04	21.2.21 - 28.2.21	
	वसाहतीचे कार्यात्मक वर्गीकरण	— 11 —	03	1.3.21 - 6.3.21	

Sigr.ature of Faculty

Principal

Shrikrishna Mahavidyalaya Gunjoti
Tq. Omerga Dist. Osmanabad



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (201 -201)

Faculty : Arts / Science

Department : Geography Class : B.A./B.Sc. / M.A./ M.Sc.

Semester : III

Paper No : VII

Paper Name : Population Geography

Name Of Faculty : Koli R.G.

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
I	लोकसंख्या-भूगोल - व्याख्या, स्वरूप,	व्याख्यान	04	2.11.20 - 9.11.20	
	व्याप्ति व महत्व	थकी उदाहरणे	03	10.11.20 - 17.11.20	
	लोक-विषयक सौरव्येष्टीचे उदाहरणे	प्रश्नोत्तरे	04	18.11.20 - 25.11.20	
II	लोकसंख्या वितरण - वितरणावर परिणाम	नकाशा	04	26.11.20 - 3.12.20	
	करणे धरक - लोकसंख्या-घनता	— —	04	4.12.20 - 11.12.20	
	जगातील व भारतातील लोक-वितरणाची	— —	03	12.12.20 - 20.12.20	
	प्राकृत - जनन व मृत्युता	— —	04	21.12.20 - 29.12.20	
	भारतातील व जगातील लोक-वितरण विभाग	— —	04	1.1.21 - 7.1.21	
III	लोक-रचना - लिंगरचना, वयरचना, साक्षरता	— —	04	8.1.21 - 15.1.21	
	लोक-रचनेची जागतिक प्राकृत - भारतातील	— —	04	16.1.21 - 24.1.21	
	लोक-रचना	— —	04	25.1.21 - 2.2.21	
IV)	स्थलांतर - व्याख्या - वर्गीकरण -	— —	05	3.2.21 - 12.2.21	
	स्थलांतरावर परिणाम करणारे धरक	— —	05	15.2.21 - 28.2.21	
	स्थलांतराचे प्रकार - स्थलांतराचे परिणाम	— —	04	1.3.21 - 6.3.21	
		— —			

Signature of Faculty

Principal

Mahavidyalaya, Gunjoti



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2020-2021)

Faculty : Arts / Science

Department : Geography

Class : B.A./B.Sc. / M.A./ M.Sc.

Semester : III & IV

Paper No : X

Paper Name : Practical Geography

Name Of Faculty : Koli R.G.

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
I →	हवामान उपकरणांचा अभ्यास - साह्या तपमापक, कमांड	उपकरणे, वापर,	06	2.11.20 - 13.11.20	
	व किमान तपमापक, ओज्यावकोरडा फुग्याचा तपमापक	आकृती - रचना	06	14.11.20 - 23.11.20	
	निर्देव वायुभरमापक, फोर्टीनचा वायुभरमापक, वात कुकूट	उपयोग -	06	24.11.20 - 4.12.20	
	- वायुवेगमापक - आर्द्रतामापक	- 11 -	06	5.12.20 - 15.12.20	
II →	IDWR - सांकेतिक चिन्ह व रचना	- 11 -	03	16.12.20 - 24.12.20	
	→ IDWR नकाशा वाचन - उन्हाळा, पावसाळा - हिवाळा	- नकाशा -	06	26.12.20 - 7.1.21	
III →	नकाशा शास्त्र तंत्रज्ञान - व्याख्या, स्वरूप, व्याप्ती, महत्त्व	व्याख्यान - चर्चा	06	8.1.21 - 19.1.21	
	→ हवामान विषयक सांख्यिकीच्या साहाय्याने - तपमान - आर्द्रता उरेव	सांख्यिकी - आकृती	03	20.1.21 - 25.1.21	
	तपमान - पर्जन्या उरेव, वातपृष्ण, समोच्च तद्वरीकरणे, समतापरेखा	- 11 -	12	27.1.21 - 28.2.21	
IV →	सांख्यिकीच्या साहाय्याने - रेखा व स्थानां उरेव, विभाजित वर्तक,	सांख्यिकी गणना -	09	1.3.21 - 18.3.21	
	विभाजित आयत, दिंब पद्धत, छायापद्धत, स्थानांकीत वर्तक	आकृती	09	20.3.21 - 20.4.21	
	स्थानांकीत चौरस, स्थानांकीत गोडा, स्थानांकीत दामगोड	- 11 -	09	21.4.21 - 21.5.21	
V →	पृथ्वीचे मोजमापण → अक्षांश, रेखांश, बृहदवर्तक, नकाशा प्रक्षेपण	व्याख्यान	09	22.5.21 - 23.6.21	
	वर्गिकरण, निवड, उपयोग → खमद्य गोमूखी दृक्चित्र, समक्षेत्र,	गणना - आकृती	09	24.6.21 - 25.7.21	
	साधे शंकू, द्विपक्षीय शंकू, साधे दंडगोल, समक्षेत्र दंडगोलीय,	- 11 -	09	26.7.21 - 7.8.21	
	प्रक्षेपण तयार करणे				

Signature of Faculty

Principal
Shrikrishna Mahavidyalaya, Gunjoti



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

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Annual Teaching - Plan Academic Year (2020 -2021)

Faculty : Arts / Science

Department : Geography

Class : B.A./B.Sc. / M.A./ M.Sc.

Semester : V

Paper No : XII

Paper Name : Environmental Geography

Name Of Faculty : Koli R.G.

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
I	पथविराशास्त्र - व्याख्या - स्वरूप - व्याप्ती - महत्व - पथविराशाचे प्रकार	व्याख्यान - उदाहरण - चर्चा - प्रश्नोत्तर	04 04	2.11.20 - 9.11.20 10.11.20 - 17.11.20	
II	परिस्थितीकी - जैविक घटक व अजैविक घटक संकल्पना - जीव - जीवसमूह - जैविक समाज जिव संहती	- 11 - - 11 - - 11 -	04 04 04	18.11.20 - 27.11.20 28.11.20 - 5.12.20 6.12.20 - 14.12.20	
III	परिसंस्था - परिसंस्थेची मूलतत्वे - परिसंस्था रचना - पोषक द्रव्याचे चक्रोत्पत्ती - परिसंस्था कार्य - उर्जा प्रवाह - अन्नसारवळी - अन्नजाती परिस्थितीकी मनोरा - परिसंस्था प्रकार	- 11 - - 11 - - 11 - - 11 -	06 06 06 06	16.12.20 - 26.12.20 27.12.20 - 7.1.21 8.1.21 - 20.1.21 21.1.21 - 1.2.21	
IV	परिसंस्था समस्या - जागतिक तपमान वाढ - अन्न सुरक्षा - निर्जनिकरण - प्लास्टिक वापर - आम्बल पजन्य	- 11 - - 11 - - 11 -	04 08 04	2.2.21 - 9.2.21 10.2.21 - 25.2.21 26.2.21 - 6.3.21	

Signature of Faculty

Principal

Shrikrishna Mahavidyalaya, Gunjoti
Tq. Omega Dist. Osmanabad



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

5

Annual Teaching - Plan Academic Year (2020 -2021)

Faculty : Arts / Science

Department : Geography

Class : B.A./B.Sc. / M.A./ M.Sc.

Semester : V

Paper No : XII

Paper Name : Industrial Geog. of Maha.

Name Of Faculty : Koli R.G.

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
I	महा. तीळ औद्योगिक विकासाचे स्वरूप - व्याप्ती -	व्याख्यान -	04	2.11.20 - 9.11.20	
	उद्योगाच्या स्थानिकीकरणावर परिणाम करणारे घटक	थर्चा - नकाशा	06	10.11.20 - 21.11.20	
		उदाहरण			
II	महाराष्ट्रातील उद्योगाचे वितरण - प्रारूप -	- 11 -	06	22.11.20 - 3.12.20	
	• कापड उद्योग • साखर उद्योग • जैवरसायन	- 11 -	06	4.12.20 - 15.12.20	
	उद्योग • स्वयंमंचलित यंत्र उद्योग	- 11 -	06	16.12.20 - 27.12.20	
III	महाराष्ट्रातील औद्योगिक पट्टे व त्याची वैशिष्ट्ये	- 11 -	07	28.12.20 - 12.1.21	
	→ महाराष्ट्राच्या विकासावर उद्योगाच्या	- 11 -	07	13.1.21 - 29.1.21	
	शोषणाचा प्रभाव	- 11 -	02	30.1.21 - 4.2.21	
IV	औद्योगिक क्षमामध्ये जागतिकीकरणार्थी भूमिका	- 11 -	04	5.2.21 - 12.2.21	
	→ उद्योगाचे स्थलांतर व त्याचा शहराच्या उपनगरावर	- 11 -	04	13.2.21 - 20.2.21	
	होणारा प्रभाव	- 11 -	04	21.2.21 - 28.2.21	
	→ महाराष्ट्राचे बदलते औद्योगिक धोरण	- 11 -	04	1.3.21 - 6.3.21	

Signature of Faculty

Principal

Shrikrishna Mahavidyalaya Gunjoti



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

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Annual Teaching - Plan Academic Year (2020 -2021)

Faculty : Arts / Science

Department : Geography

Class : B.A./B.Sc. / M.A./ M.Sc.

Semister : V & VI

Paper No : XVI

Paper Name : practical geography

Name Of Faculty : Koli R.G.

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
I	→ सार्वभौमिकी - व्याख्या - महत्व	सुझ-गोचर -	03	2.11.20 - 9.11.20	
	→ केंद्रीय प्रकृतिचे मोजमापन -	स्पर्धीकरण -	03	10.11.20 - 17.11.20	
	• वैयक्तिक पदमाळेच्या साहाय्याने माध्य, मध्यका, बहुलक	उदाहरण	09	18.11.20 - 8.12.20	
	• रव्डीत पदमाळेच्या साहाय्याने माध्य, मध्यका, बहुलक काढणे	— 11 —	09	9.12.20 - 30.12.20	
	• सतत पदमाळेच्या साहाय्याने माध्य, मध्यका, बहुलक काढणे	— 11 —	03	1.1.21 - 7.1.21	
II	→ विचलनाचे मोजमापन -	— 11 —	09	8.1.21 - 29.1.21	
	• प्रमाणित विचलन -	— 11 —	09	30.1.21 - 20.2.21	
	• माध्य विचलन	— 11 —	09	21.2.21 - 14.3.21	
	• चतुर्थी विचलन	— 11 —	09	15.3.21 - 28.4.21	
III	सहसंबंध - ① स्पिअरमनची पद्धत	— 11 —	09	9.4.21 - 30.4.21	
	② कार्ल पिअरसनची पद्धत	— 11 —	09	2.5.21 - 23.5.21	
IV	समाश्रयन समीकरण तयार करणे -	— 11 —	09	24.5.21 - 15.6.21	
	1) न्यूनतम वर्ग पद्धतीने समीकरण तयार करणे	— 11 —	09	16.6.21 - 7.7.21	
	2) समा. समीकरण 'X' वर 'Y' समीकरण तयार करणे	— 11 —	09	8.7.21 - 29.7.21	
	3) समा. समीकरण 'Y' वर 'X' समीकरण तयार करणे	— 11 —	09	30.7.21 - 30.7.21	
	4) काय वर्ग चाचणी	— 11 —	09	1.8.21 - 7.8.21	

Signature of Faculty

Principal
Shrikrishna Mahavidyalaya, Gunjoti
Tq. Omurga Dist. Osmanabad



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

⑦

Annual Teaching - Plan Academic Year (2020 -2021)

Faculty : Arts / Science

Department : Geography

Class : B.A./B.Sc. / M.A./ M.Sc.

Semester : II

Paper No : IV

Paper Name : Regional Geog. of Maha.

Name Of Faculty : Koli R.G.

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
I	महाराष्ट्र - स्थान - आकार - विस्तार	व्याख्यान	04	05.4.21 - 12.4.21	
	महाराष्ट्राची वैशिष्ट्ये - महा.चे प्राकृतिक विभाग	चर्चा-उदाहरण	06	13.4.21 - 24.4.21	
		नकाशा			
II	महाराष्ट्र - हवामान - जलप्रवाह -	— 11 —	06	25.4.21 - 5.5.21	
	मृदा - नैसर्गिक वनस्पती	— 11 —	06	6.5.21 - 17.5.21	
III	महाराष्ट्र - कृषि - पीक प्रकार -	— 11 —	05	18.5.21 - 3.5.21	
	महाराष्ट्रातील पीकासाठी भौगोलिक स्थिती -	— 11 —	05	4.5.21 - 13.5.21	
	उत्पादन व वितरण - ज्वारी - गहू - तांदूळ	— 11 —	05	14.5.21 - 22.5.21	
	कापूस - उस - तेलकीया - कडधान्ये	— 11 —	05	24.5.21 - 2.6.21	
IV	महाराष्ट्रातील उद्योग धंदे -	— 11 —	02	3.6.21 - 7.6.21	
	1) सूती वस्त्रोद्योग	— 11 —	06	8.6.21 - 22.6.21	
	2) सारवर उद्योग	— 11 —	06	23.6.21 - 9.7.21	
	3) वाहतूक - रस्से व रेल्वे वाहतूक.	— 11 —	06	5.7.21 - 2.8.21	

Signature of Faculty

Principal

Shrikrishna Mahavidyalaya, Gunjoti



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI ⑧

Annual Teaching - Plan Academic Year (2020 -2021)

Faculty : Arts / Science

Department : Geography

Class : B.A./B.Sc. / M.A./ M.Sc.

Semister : IV

Paper No : IX

Paper Name : Settlement Geography

Name Of Faculty : Koli R.G.

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
I	वसाहत भूगोल - व्याख्या - स्वरूप- व्याप्ति	व्याख्यान	06	5.4.21 - 15.4.21	
	व बंदक - शहरी-ग्रामीण वसाहत -	चर्चा-उदाहरण	06	16.4.21 - 25.4.21	
	व्याख्या - वसाहतीचे गुणधर्म व मर्यादा	पुरजेतरे	06	26.4.21 - 7.5.21	
II	वसाहतीचे स्थान व रचना -	— 11 —	06	8.5.21 - 19.5.21	
	वसाहत अंतर्गत आकार व वास्तव्य निर्मिती	— 11 —	06	20.5.21 - 30.5.21	
	क्षेत्रीय प्रकार - वसाहतीची कार्ये	— 11 —	06	1.6.21 - 9.6.21	
	द्वाराचे प्रकार	— 11 —	03	10.6.21 - 16.6.21	
III	वसाहतीचे क्षेत्रीय संबन्धन -	— 11 —	06	17.6.21 - 27.6.21	
	आकार - जागा - वसाहत क्षेत्रीय	— 11 —	06	28.6.21 - 9.7.21	
	ग्रामीण वसाहतीच्या उदय व वैशिष्ट्ये	— 11 —	06	10.7.21 - 25.7.21	
IV	भारतातील वसाहतीची वैशिष्ट्ये	— 11 —	06	26.7.21 - 7.8.21	

Signature of Faculty

Principal
Shrikrishna Mahavidyalaya, Gunjoti
Tal. Omarga Dist. Osmanabad



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

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Annual Teaching - Plan Academic Year (2020 -2021)

Faculty : Arts / Science

Department : Geography

Class : B.A./B.Sc. / M.A./ M.Sc.

Semester : VI

Paper No : XV

Paper Name : Geog. of Natural Calamity

Name Of Faculty : Koli R.G.

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
I	नैसर्गिक आपत्ति - व्याख्या - स्वरूप	व्याख्यान	04	05.4.21 - 12.4.21	
	व्याप्ति - प्रकार	यथार्थ उदाहरण	04	13.4.21 - 20.4.21	
II	• भूकंप - कारण - परिणाम - जागतिक पट्टे	- 11 -	04	21.4.21 - 29.4.21	
	• ज्वालामुखी - कारण - परिणाम - उपाय	- 11 -	04	30.4.21 - 7.5.21	
	जागतिक पट्टे	- 11 -	04	8.5.21 - 15.5.21	
III	• अवर्षण - कारण - प्रकार - उपाय - वितरण	- 11 -	06	16.5.21 - 26.5.21	
	• पूर - कारण - परिणाम - उपाय - वितरण	- 11 -	06	27.5.21 - 7.6.21	
	• जैविक आपत्ति - कारण - परिणाम - उपाय	- 11 -	06	8.6.21 - 18.6.21	
IV	→ जागतिक लक्ष्मण वृद्धि - कारण - परिणाम - उपाय	- 11 -	04	20.6.21 - 27.6.21	
	→ हरित गृह - कारण - परिणाम	- 11 -	04	28.6.21 - 6.7.21	
	→ ओजोन - हासायनिक कारण - परिणाम	- 11 -	04	7.7.21 - 15.7.21	
	→ प्रदूषण - प्रकार - कारण - परिणाम	- 11 -	10	16.7.21 - 23.7.21	
				24.7.21 - 7.8.21	

Signature of Faculty

Principal

Shrikrishna Mahavidyalaya, Gunjoti



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2020 -2021)

Faculty : Arts / Science

Department : Geography

Class : B.A./B.Sc. / M.A./ M.Sc.

Semester : VI

Paper No : XVII

Paper Name : Biogeography

Name Of Faculty : Koli R.G.

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
I	जैविक भूगोल - व्याख्या - स्वरूप	व्याख्यान	04	05.4.21 - 12.4.21	
	व्याप्ती - महत्व	चर्चा	04	13.4.21 - 20.4.21	
		उदाहरण			
II	पर्यावरण - आधिवास - वनस्पती: प्राणिसंघटन	व्याख्यान	06	21.4.21 - 2.5.21	
	जीव प्रकार - डार्विनचा उक्रांती	- 11 -	08	3.5.21 - 17.5.21	
	वाढत्या सिद्धांत	- 11 -	06	18.5.21 - 2.6.21	
III	वनस्पती भूगोलाचे दृष्टक - वनाचे विवरण	- 11 -	06	3.6.21 - 17.6.21	
	पूरग्रस्त व हिमनदीच्या पार्श्व प्रदेशातील	- 11 -	06	18.6.21 - 29.6.21	
	नवनिर्मित वनस्त्री भूप्रदेश	- 11 -	06	30.6.21 - 9.7.21	
IV	प्राणिकभूगोल - पर्यावरणाशी सहसंबंध -	- 11 -	06	10.7.21 - 20.7.21	
	परिसंस्था - निर्मिती - कार्य	- 11 -	06	21.7.21 - 30.7.21	
	भारताचे - राष्ट्रीय वन धोरण	- 11 -	06	1.8.21 - 8.8.21	

Signature of Faculty

Principal
Shrikrishna Mahavidyalaya, Gunjoti
Tq. Omerga Dist. Osmanabad

SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Academic Calendar For 180 Days

Faculty of Arts

Academic Year: (2020-21)

(Department of Political science)

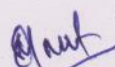
Name of Faculty Member: Dr. Prabhat Raut

Term	Month	Working days	Theory Periods	Practical Periods	Total Periods
First Term	November	22	06+12+12	12	42
	December	26	08+16+16	16	56
	January	24	07+14+14	14	49
	February	23	07+14+14	14	49
	March	06	02+04+04	04	14
Total 1		101	30+60+60	60	210
Second Term	April	20	05+10+10	10	35
	May	23	07+14+14	14	49
	June	26	08+16+16	16	56
	July	26	08+16+16	16	56
	August	06	02+04+04	04	14
Total 2		101	30+60+60	60	210
Total 1 + 2		202	60+120+120	120	420

Total Working Days = 202

Total Theory Periods = 300

Total Practical Periods = 120


Signature of Faculty Member



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (201-201) 2020-21

Faculty : Arts / Science

Department : Pol. sc.

Class : B.A./B.Sc./M.A./M.Sc.

Semester : III & IV

Paper No : -

Paper Name : Indian Govt. & Politics

Name Of Faculty : Dr. Prabhakar Raut

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
1	भारतीय राज्यघटना - उगमस्थाने, संरचना, वैशिष्ट्ये	Lecture	12	Nov.	
2	घटनात्मक नववृद्धि - मुलभूत अधिकार, मागदिक नव	- -	12	Dec.	
3	भारतीय संघराज्य - राष्ट्रपती, पंतप्रधान, भारतीय संसद	- -	12	Dec. & Jan.	
4	अथसंकल्पित प्रक्रिया आणि संसदीय समित्या	- -	12	Jan. & Feb.	
5	राजकीय संस्था	- -	12	Feb. & Mar.	
6	सर्वोच्च न्यायालय - रचना, कार्य, अधिकार, न्यायिक पुनरावलोकन	- -	12	Apr. & May	
7	केंद्र - राज्य संबंध	- -	12	May	
8	भारतीय राजकीय पक्षांचे नवज्ञान व कार्यक्रम	- -	12	June	
9	निवडणूक आयोग आणि निवडणूक सुधारणा	- -	12	June & July	
10	भारतीय लोकशाहीपुढील आव्हाने	- -	12	July & Aug.	

Signature of Faculty

Principal
Shrikrishna Mahavidyalaya, Gunjoti
Tq. Omerga Dist. Osmanabad



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (~~201-201~~) 2020-21

Faculty : Arts / Science Department : Pol. Sc. Class : B.A./B.Sc. / M.A./ M.Sc.
Semester : V & VI Paper No : - Paper Name : Project work
Name Of Faculty : Dr. Prabhat Raut

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
1	प्रकल्प कार्य	Lecture	12	Nov.	
2	प्रकल्प कार्य	- 11 -	12	Dec.	
3	प्रकल्प कार्य	- 1 -	12	Dec. & Jan.	
4	प्रकल्प कार्य	- 11 -	12	Jan. & Feb.	
5	प्रकल्प कार्य	- 11 -	12	Feb. & Mar.	
6	प्रकल्प कार्य	- 11 -	12	Apr. & May	
7	प्रकल्प कार्य	- 11 -	12	May	
8	प्रकल्प कार्य	- 11 -	12	June	
9	प्रकल्प कार्य	- 11 -	12	June & July	
10	प्रकल्प कार्य	- 11 -	12	July & Aug.	

Dr. Prabhat Raut
Signature of Faculty

Principal
Principal
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Tq. Omerga Dist. Osmanabad

SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Academic Calendar For 180 Days

Faculty of Arts

Academic Year: (2020-2021)

(Department of Political Science)


Name of Faculty Member: Mr. R. N. Nigade

Term	Month	Working days	Theory Periods				Practical Periods	Total Periods
			I	II	III	IV		
First Term	November	22	07	15	15	29	-	66
	December	26	07	19	15	35	-	76
	January	24	10	14	17	31	-	72
	February	23	07	16	15	31	-	69
	March	06	02	04	04	08	-	18
Total 1		101	33	68	66	134	-	301
Second Term	April	20	08	14	15	29	-	66
	May	23	07	16	14	32	-	69
	June	26	10	18	17	34	-	79
	July	26	10	16	18	34	-	78
	August	06	02	04	04	08	-	18
Total 2		101	37	68	68	137	-	310
Total 1 + 2			70	136	134	271	-	611

Total Working Days = 229

Total Theory Periods = 601

Total Practical Periods = -


Signature of Faculty Member



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (201 -201)

Faculty : Arts / Science

Department : Pol. sci.

Class : B.A./B.Sc. / M.A./ M.Sc.

Semester : IVth

Paper No : VIII

Paper Name : International Relations

Name Of Faculty : Mr. R. N. Nigade

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
1.	सामुहिक सुरक्षितता आणि युक्त, सामुहिक सुरक्षिततेचा अर्थ व स्वरूप.	Lecture	12	1 April 2021 to 24 April 2021	
2.	तेजावशोधितता - अर्थ व स्वरूप, वैशिष्ट्ये प्रकार		12	28 April 2021 to 15 May 2021	
3.	जागतिक राजकारणातील महत्वाचे प्रश्न 1) दहशतवाद 2) पर्यावरणवाद		12	19 May 2021 to 9 June 2021	
4.	आंतरराष्ट्रीय व प्रदेशिक संघटना - व्यापारसंघ सार्क, आशियाज		12	10 June 2021 to 30 June 2021	
5.	अलिप्त राष्ट्रसंघटना - अर्थ, स्वरूप, भूमिका - संकवलीची प्रसंगीकता.		12	1 July 2021 to 22 July 2021	

Signature of Faculty

Principal

Shrikrishna Mahavidyalaya, Gunjoti
Ta. Omarga Dist. Osmanabad



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2010-2011)

Faculty : Arts / Science

Department : Pol. sci.

Class : B.A./B.Sc. / M.A./ M.Sc.

Semister : Vth

Paper No : IX

Paper Name : Indian Political Thinkers

Name Of Faculty : Mr. R. N. Nigade

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
1.	राजाराज मोहन राय - भारतीय प्रबोधन, स्वातंत्र्य युगपत्र स्वातंत्र्य, कायदा व हक्क संबंधीचे विचार	Lecture	15	4 Nov 2020 to 29 Nov. 2020	
2.	इयानंद सरस्वती - पुनरुत्थानवादी विचार - समाज सुधारणे संबंधी कार्य, वैदिक स्वराज्य, स्वदेशी, राष्ट्रवाद, लोकशाही, बाबाजीचे विचार		12	2 Dec. 2020 to 19 Dec. 2020	
3.	लोकमान्य टिळक -> समा. सुधारणा व टिळक राष्ट्रवाद, टिळकांच्या राजकारणाची चढउतारी.		09	23 Dec. 2020 to 7 Jan. 2021	
4.	महात्मा गांधी -> राज. तत्वज्ञान, सत्य व अहिंसे ची संकल्पना, सत्याग्रह, राज्य, धर्म संबंधी विचार गांधीवाद व साम्यवाद.		12	8 Jan. 2021 to 29 Jan 2021	
5.	गोपाळ कृष्ण गोखले -> सामाजिक व उदारमतवादी विचार, राष्ट्रवादी विचार		12	29 Jan. 2021 to 20 Feb 2021.	

Signature of Faculty

Principal
Shrikrishna Mahavidyalaya, Gunjoti
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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2010-2011)

Faculty : Arts / Science Department : Pol. Sci. Class : B.A./B.Sc. / M.A./ M.Sc.
Semester : VIth Paper No : XIII Paper Name : Western Political Thinkers
Name Of Faculty : Mr. R. N. Nigade

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
1.	जीन जॅक रूसो :- राजकीय स्वभाव, सामाजिक करार, सिद्धांत, सामूहिक ईश.	Lecture	12		
2.	जॉन स्टुअर्ट मिल :- उपयोक्तीतावादी सिद्धांत, स्वातंत्र्या संबंधी विचार, प्रातिनिधीक सरकार बाबत चे विचार.		12		
3.	जेरेमी बेन्थॅम :- राज्या संबंधी विचार, सरकार संबंधी विचार, कायदा व सुधारणा, हुक्का संबंधी विचार शिष्टे बाबत चे विचार		12		
4.	कार्ल मार्क्स :- भौतिकवादी विचार, ऐतिहासिक भौतिकवादी विचार, वर्ग संघर्ष, अतिरिक्त मूल्य सिद्धांत राज्या संबंधी विचार, क्रांती संबंधीचे विचार.		12		
5.	प्रो. हेन्री लॉस्कॉ :- सार्वभौमत्वा संबंधी विचार राजकीय विचार, स्वातंत्र्या संबंधीचे विचार		12		

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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2010 -2011)

Faculty : Arts / Science

Department : Pol. Sci

Class : B.A./B.Sc. / M.A./ M.Sc.

Semister : Vth

Paper No : X

Paper Name : Western Political Thinkers

Name Of Faculty : Mr. R. N. Nigade

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
1.	एलोरो → न्याया संबंधी विचार, साम्यवाद, शिक्षण आदर्श राज्या संबंधी विचार	Lecture	12	21 NOV 2020 to 23 Nov 2020	
2.	ऑरिस्टॉटल → राज्या बाबत-चे विचार, नागरिकत्वा बाबत-चे विचार, क्रांती संबंधी-चे विचार		12	24 NOV 2020 to 15 DEC 2020	
3.	निकोलोस मॅकॅव्हेली → मानवी स्वभाव, राजाणा उपदेश, धर्म बाबत-चे विचार		12	21 DEC 2020 to 5 Jan 2021	
4.	थॉमस हॉब्स → मानवी स्वभाव, सामाजिक करार सिद्धांत, सार्वभौमत्वा संबंधी विचार		12	12 Jan 2021 to 2 Feb 2021	
5.	जॉन लॉक → मानवी स्वभाव, सामाजिक करार सिद्धांत		12	8. Feb 2021 to 23 Feb 2021.	

Signature of Faculty

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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Academic Calendar For - covid-19 Period

Faculty of - Arts

Academic calendar- 2020-2021

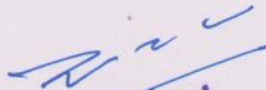
Department of - Political Science

Name of Faculty Member - Mr. R. N. Nigade

Term	Months	Total Working Days	Theory Periods				Practical Periods	Total Periods
			I	II	III	IV		
August to October 2020 on Line Teaching	August	20	-	11	04	05	-	20
	September	25	-	06	03	-	-	09
	October	24	-	03	04	04	-	21
	Total	69	-	30	11	09	-	50

- o B.A. I संवेदा प्रक्रिया चालू असल्याने वेळापत्रक दिले नव्हते.
- o 13 sept. ते 30 sept. या कालावधी मध्ये मी कोरोना पॉजिटिव्ह होते.
- o 1 Aug. ते oct. 2020 पर्यंत Audio clip वरून अभ्यासक्रम सिकविला.

- Total Working Days 69
- Total Theory Periods 50
- Total Practical Periods -


Principal

Shrikrishna Mahavidyalaya, Gunjoti
Tq. Omerga Dist. Omerga



signature of Faculty member



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2010 -2011)

Faculty : Arts / Science Department : Pol. sci Class : B.A./B.Sc. / M.A./ M.Sc.
Semester : Ist Paper No : VI, IX, X Paper Name : BA II - International Relations
Name Of Faculty : Mr. B. N. Nigade BA III ① Indian Political Thinkers
② Western Political Thinkers

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
BA II - I	आंतरराष्ट्रीय संबंध - अर्थ - व्याख्या - स्वरूप - व्याप्ती महत्व	Lecture Audio clip	15	8 Aug 2020 to 10 sept. 2020	
BA II - II	आंतरराष्ट्रीय संबंधांच्या उभ्यादनाचे इच्छीकोन - 1) उदारवादी इच्छीकोन 2) वास्तववादी इच्छीकोन 3) वर्तनवादी इच्छीकोन	— II — — II — — II —	15	11 sept 2020 to 31 oct. 2020	
BA III - 1	राजानाम मोहन राय 2 दयानंद सरस्वती	— II — — II —	06 05	3 Aug. 2020 to 25 Aug. 2020 1. sept 2020 to 31 oct 2020	
BA III - 1	पार्ले 2 ऑरिस्टॉल	— II — — II —	04 04	3 Aug. 2020 to 25 Aug. 2020 1 sept 2020 to 31 oct. 2020	

Signature of Faculty

Principal

Shrikrishna Mahavidyalaya, Gunjoti
Tq. Omarga Dist. Osmanabad

SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI.

Academic Calendar For 180 Days

Faculty of Science

Academic Year: (2020-21)

(Department of CHEMISTRY)

Name of Faculty Member: Prof. (Dr.). K.S.Lohar

Term	Month	Working days	Theory Periods	Practical Periods	Total
First Term	Nov.2019	22	10	52	62
	Dec.	26	14	48	62
	Jan.2021	24	13	56	69
	Feb.	23	11	64	75
	March	6	3	16	19
Total 1		101	51	236	287
Second Term	April	20	12	60	72
	May.	23	11	60	71
	June	26	12	72	84
	July	26	15	64	79
	Aug.	6	3	16	19
Total 2		101	56	272	235
Total 1 + 2		202	107	508	612

Total Working Days = 202

Total Teaching Days = 107

Total Theory Period = 107

Total Practical Periods = 508

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20/02/2021

Signature of Faculty Member

SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI.

Academic Calendar For 180 Days

Faculty of **Science**

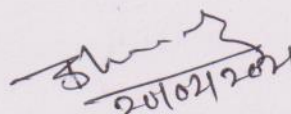
Academic Year: **(2020-21)**

(Department of **CHEMISTRY**)

Name of Faculty Member: **Prof. (Dr.). K.S.Lohar**

Term	Month	Working days	Theory Periods	Practical Periods	Total
First Term	Nov.2019	22	10	52	62
	Dec.	26	14	48	62
	Jan.2021	24	13	56	69
	Feb.	23	11	64	75
	March	6	3	16	19
Total 1		101	51	236	287
Second Term	April	20	12	60	72
	May.	23	11	60	71
	June	26	12	72	84
	July	26	15	64	79
	Aug.	6	3	16	19
Total 2		101	56	272	235
Total 1 + 2		202	107	508	612

Total Working Days = 202
 Total Teaching Days = 107
 Total Theory Period = 107
 Total Practical Periods = 508


 20/02/2021

Signature of Faculty Member

SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI.

TIME TABLE 2020-21

Faculty: Science

Subject CHEMISTRY

Name of the Teacher: Prof. (Dr.). K. S. Lohar

Time	7.00 To 7.50	7.50 To 8.40	8.40 To 9.30	9.30 To 10.20	10.35 To 11.25	11.25 To 12.15	12.15 To 1.05	1.35 To 2.25	2.25 To 3.15	3.15 To 4.05	4.05 To 4.55
Days	Practical's			Theory			Practical's				
MON.							B.Sc. III. Practice L.C. IX+X, L.C. XI+XII				
TUE.							B.Sc. III. Practice L.C. IX+X, L.C. XI+XII				
WED.							B.Sc. III. Practice L.C. IX+X, L.C. XI+XII				
THU.				B.Sc.III.4.			B.Sc. III. Practice L.C. IX+X, L.C. XI+XII				
FRI.				B.Sc.III.4							
SAT.				B.Sc.III.4							

Class	Paper No.	Theory	Paper No.	Practical	Total Periods
B.Sc. I.					
B.Sc. II.					
B.Sc. III.	XIV+XXII	03	L.C. IX+X L.C. XI+XII	4*4=16	19
Total Periods		03		16	19

Name of Teacher:- Prof. (Dr.). K. S. Lohar

Head

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Tq. Omernagar, Dist. Osmanabad

SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI
Teaching –Plan Academic Year (2020-2021)

Class: B.Sc. III.

Department of Chemistry

Name of Faculty Member: Prof. Dr. K.S. Lohar

Paper No.: XIV (Sem .V)

Paper Name: ORGANIC CHEMISTRY

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
II.	Organometallic compounds: The Grignard reagent, C_2H_5MgBr formation, structure and chemical reactions. Organozinc compound, formation and chemical reactions, organolithium compound, formation and chemical reactions.	Online Lecture	08	02/11/2020 To 18/11/2020	
III.	Organic Synthesis via Enolates Defination, Active methylene compounds, Preparation of Aceto acetic ester, (Claisen condensation with Mechanism), Acidity of alpha hydrogen, properties and reactions involving formation of mono, di and unsaturated carboxylic acids, also synthesis of ketone, di ketone, 4-methyl uracil from acetoacetic ester, keto-enol tautomerism. Preparation of diethyl malonate, properties and reactions involved in alkylation, formation of mono, di and unsaturated carboxylic acids, and also synthesis of glycine and barbutric acids from diethyl malonate.	Online Lecture	13	24/11/2020 To 22/12/2020	
IV.	Fats, oils and detergents Edible and industrial oils of vegetable origin, manufacture of soyabean oil by solvent extraction method and isolation and uses of essential oils. Types of animals fats and oils and defination of saponification value, iodine value, and acid value. Detergents: Defination, Introduction and preparation of sodium alkyl sulphonate, alkyl benzene sulphonate, and amide sulphonate, (one example each), Cleansing action of detergent.	Lecture	08	23/12/2020 To 13/01/2021	

Spectroscopy Nuclear magnetic resonance (NMR) spectroscopy

Proton magnetic resonance (^1H NMR) spectroscopy, nuclear shielding and deshielding, chemical shift and molecular structure, spin-spin splitting and coupling constants, areas of signals, interpretation of PMR spectra of simple organic molecules such as ethyl bromide, ethanol, acetaldehyde, 1, 2, 2 tribromoethane, ethyl acetate, toluene and Acetophenone. Problems pertaining to the structure elucidation of simple organic compounds using UV, IR and PMR spectroscopic techniques. (Combine and single λ_{max} using woodward fischer rule)

Lecture

16

**18/01/2021
To
17/02/2021**

Signature of Faculty Member

**Principal
Principal**

**Shrikrishna Mahavidyalaya, Gunjoti
Tq. Omerga Dist. Osmanabad**

SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year (2020-21)

Department of Chemistry

Paper No.: XV . Semester V

Class: B.Sc. III.

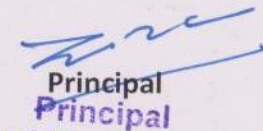
Name of Faculty Member: Prof. Dr. K.S. Lohar

Paper Name: ORGANIC + INCEMISTRY

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
	Separation and Identification of both components (Any Six)	Demonstrations	4	15 Feb.2021	
1.	i) Benzoic Acid + β -naphthol		4	On words	
	ii) Salicylic Acid + P- nitro aniline		4		
	iii) β -naphthol + Acetanilide		4		
	iv) m-nitroaniline + Naphthalene		4		
	v) a-naphthol + O-nitroaniline		4		
	vi) Cinnamic Acid + Naphthalene		4		
	vii) Salicylic Acid + Naphthalene		4		
	viii) β -naphthol + m-dinitrobenzene		4		
	ix) Cinnamic Acid + P- nitro anilin		4		
	x) Salicylic Acid + β -naphthol	4			



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Shrikrishna Mahavidyalaya, Gunjoti
Tq.Omerga Dist.Osmanabad

SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year (2020-21)

Department of Chemistry

Paper No.: XV (Sem .VI) Lab.Course. X.

Class: B.Sc. III.

Name of Faculty Member: Prof. Dr. K.S. Lohar

Paper Name: INORGANIC CHEMISTRY

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
2	1.Separation of calcium and Barium and estimation of Ca-volumetrically or Ba - gravimetrically.	Demonstration	04	15 Feb.2021 Onwards	
	2.Separation of Cu and Ni from binary mixture solution and estimation of Cu-volumetrically and Ni-gravimetrically		04		
	3.Estimation of oxalic acid and H ₂ SO ₄ in a given mixture Solution using NaOH and KMnO ₄ solution.		04		
	4.Estimation of Fe by potassium dichromate using diphenyl ammine indicator.		04		
	5.Estimation of available chlorine in the given sample of bleaching powder.		04		
3.	6.Inorganic Qualitative Analysis (Semi-Micro Analysis)		20		



Signature of Faculty Member



Principal

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Shrikrishna Mahavidyalaya, Gunjoti
Tq. Omerga Dist. Osmanabad

Department of Chemistry

Class: B.Sc. III.

Paper No.: XXII Organic Chemistry (Sem.VI)

Name of Faculty Member: Prof. Dr. K.S. Lohar

Paper Name: Organic Chemistry

Chapter No. / Unit .	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	Heterocyclic Compounds: Introduction: Molecular orbital picture and aromatic characteristics of pyrrole, furan, thiophene and pyridine, Methods of synthesis and chemical reactions with particular emphasis on the mechanism of electrophilic substitution. Mechanism of nucleophilic substitution reactions in pyridine. Comparison of basicity of pyridine, piperidine and pyrrole. Condensed Heterocycles: Introduction, Preparation of Quinoline (Skraups Synthesis), Isoquinoline (Bischler - Napirlaski) and Indole (Fischer indole Synthesis).	Lecture	13	05/04/2021 To 05/05/2021	
2.	Carbohydrates: Defination, Introduction and Classification. Monosaccharides-Interconversion of Glucose and Fructose, chain lengthening, chain shortening of aldoses. Conversion of Glucose into mannose. Determination of ring size of Monosaccharide, Mechanism of Mutarotation and Introduction to disaccharides (maltose, sucrose and lactose) and Polysaccharides (Starch and cellulose) without involving structure determination	Lecture	10	10/05/2021 To 02/06/2021	
3.	Synthetic Polymers : Introduction, Classification based on nature of synthesis (without mechanism) with examples. (Addition and condensation polymers). Properties, uses and synthesis of polyvinyl chloride, polyvinyl acetate, polystyrene, polyacrylonitrile, Nylon 6, Nylon 66. Introduction to synthetic and natural rubber, properties, uses and synthesis of Buna N., Neoprene and silicon rubber.	Lecture	07	07/06/2021 To 22/06/2021	

Synthetic Dyes and Drugs

Definition, colour and constitution (electronic concept) of dye, classification based on chemical constitution, synthesis of methyl orange, Congo red, malachite green, crystal violet, Alizarin and indigo dyes. Synthetic Drugs, Definition, introduction, classification of drugs. Properties of ideal drug. Synthesis of chloromycetin, paracetamol, phenacetin, sulphaguainidine.

Lecture

15

23/06/2021
To
28/07/2021



Signature of Faculty Member



Principal

Shrikrishna Mahavidyalaya, Gunjoti
Tq.Omerga Dist.Osmanabad

Department of Chemistry

Class: B.Sc. III.

Name of Faculty Member: Prof. Dr. K.S. Lohar

Paper No.: Paper No.: XVIII (Sem.VI)

Paper Name: Physical Chemistry

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	Instrumental 1. Determine the % composition of HCl and CH ₃ COOH in a given mixture by titrating against strong base conductometrically. 2. Determine the strength of oxalic acid conductometrically using sodium hydroxide solution. 3. To determine empirical formula of ferric -5-sulphosalicylate 4. Determine the amount of Fe ²⁺ in the given solution potentiometrically 5. To determine the refractive indices of series of salt solutions and to find out concentration of the salt in given unknown solution.	Demonstration	20	05April 2021 onwards	
2.	Non-Instrumental 1. To determine the interfacial tension between two immiscible liquids. 2. To study the effect of addition of an electrolyte NaCl / KCl on the solubility of benzoic acid at room temperature. 3. To determine the standard free energy change ΔG^0 and equilibrium constant for the reaction. $Cu + 2 Ag^+ = Cu^{2+} + 2 Ag$	Demonstration	12		



Signature of Faculty Member

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Tq. Omerga Dist. Osmanabad

Class: **B.Sc. III.**Department of **Chemistry**Name of Faculty Member: **Dr. K.S. Lohar**Paper No.: **Paper No.: XVIII (Sem.VI)**Paper Name: **Physical Chemistry**

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	Organic Estimation	Demonstration	20	05April 2021 onwards	
	i) Estimation of Carbonyl group by hydrazone formation method				
	ii) Estimation of vitamin C in commercial soft drink / Glucon D				
	iii) Estimation of ascorbic acid				
	iv) Estimation of Saponification value of oil				
2	Organic Preparation and its purity by TLC	Demonstration	24		
	i) Preparation of Hydrazobenzene from azobenzene.				
	ii) Preparation of Phthalic anhydride from phthalic acid.				
	iii) Preparation of 2, 4 dinitrophenyl hydrazone of acetone.				
	iv) To prepare picrate of Naphthalene.				
	v) To prepare picrate of Anthracene.				
	vi) preparation of p – bromo acetanilide from acetanilide				



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**SHRIKRISHNA MAHAVIDYALAYA,
GUNJOTI**

Academic Calendar for 180 Days

Faculty of Arts / Science

Academic Year: (2020-2021)

(Department of Chemistry)

Name of Faculty Member: **Dr. V. S. Hogade**

Term	Month	Working days	Theory Periods	Practical Periods	Total Periods
First Term	November	22	22	64	86
	December	26	26	76	102
	January	24	24	56	80
	February	23	23	64	87
	March	06	06	16	22
Total 1		101	101	276	377
Term End Exam 08/03/2021 to 26/03/2021					
Second Term – 05 April 2021 to 21 August 2021					
Second Term	April	20	20	56	76
	May	23	23	64	87
	June	26	26	72	98
	July	26	26	64	90
	August	06	06	09	15
Total 2		101	101	265	366
Total 1 + 2		202	202	541	743

Total Working Days = **202**

Total Theory Periods = **202**

Total Practical Periods = **541**

Signature of Faculty Member
Hogade

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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year 2020-2021

SKMG / 2020-2021

Department of Chemistry

Paper No.: Paper –II (I Sem.)

Class: B.A. / B.Sc. / M.A. / M.Sc. / I

Name of Faculty Member: Mr. V.S. Hogade

Paper Name: Organic Chemistry

Chapter No./ Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration Month/ Year	Remarks
1.	Structure and Bonding: Localized and delocalized chemical bond; charge transfer complexes, resonance, hyper conjugation, inductive effect, hydrogen bonding, conjugative effect, steric effect.	Lecture	6	Nov - 2020	
2.	Mechanism of Organic Reactions: Homolytic and heterolytic bond breaking. Types of reagents electrophiles and nucleophiles. Types of organic reactions. Energy considerations. Reactive intermediates - carbocations, carbanions, free radicals (with two examples each).	Lecture	10	Nov - 2020	
3.	Stereochemistry of Organic Compounds : Concept of Isomerism - Types of isomerism. Optical Isomerism - elements of symmetry, molecular chirality, enantiomers, stereogenic centre, optical activity, properties of enantiomers, chiral and achiral molecules with two stereogenic centres, diastereomers, threo and erythro diastereomers, meso compounds. Relative and absolute configuration, sequence rules, D and L and R and S systems of nomenclature. Geometric Isomerism - Determination of configuration of geometric isomers. E and Z system of nomenclature, geometric isomerism in oximes and alicyclic compounds. Home Assignment.	Lecture +Model Demonstration +LCD Projector	10	Nov, Dec-2020	
4.	Alkanes : Methods of formation (Koble reaction, Corey - House reaction and decarboxylation of carboxylic acids). Physical properties and Chemical reactions of alkanes. Chlorination, Nitration, Sulphonation, Catalytic oxidation.	Lecture	4	Jan -2021	

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Teaching –Plan Academic Year 2020-2021

SKMG / 2020-2021

Department of Chemistry

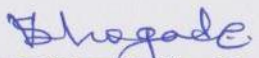
Paper No.: Paper –II (I Sem.)


Class: B.A. / B.Sc. / M.A. / M.Sc. / I

Name of Faculty Member: Mr. V.S. Hogade

Paper Name: Organic Chemistry

Chapter No./ Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration Month/ Year	Remarks
5.	Alkenes : Nomenclature of alkenes, methods of formation, mechanisms of dehydration of alcohols and dehydrohalogenation of alkyl halides. The Saytzeff rule, Hofmann elimination, physical properties and relative stabilities of alkenes. Chemical reactions of alkenes - mechanisms involved in hydrogenation, electrophilic and free radical additions, Markownikoff's rule, hydroboration and oxidation with KMnO_4 . Polymerization of alkenes with one example each. Unit Test.	Lecture	6	Jan - 2021	
6.	Arenes and Aromaticity: Nomenclature of benzene derivatives. The aryl group. Aromatic nucleus and side chain structure of benzene: molecular formula and Kekule structure. Resonance Structure, MO Picture. Aromaticity: The Huckel rule, aromatic ions. Aromatic electrophilic substitution: General Pattern of the mechanism (Nitration, halogenations and Sulphonation) and Friedel Crafts reaction.	Lecture LCD Projector	5	Feb - 2021	
7.	Alkyl and Aryl halides: Polyhalogen Compounds: Chloroform, Carbon tetrachloride. Methods -formation of aryl halides, nuclear and side chain reaction.	Lecture	4	Feb - 2021	


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Teaching –Plan Academic Year 2020-2021

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Department of Chemistry


Paper No.: Paper – IV (II Sem.)

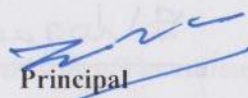
Class: B.A. / B.Sc. / M.A. / M.Sc. / I

Name of Faculty Member: Mr. V.S. Hogade

Paper Name: Physical Chemistry

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration Month/ Year	Remarks
1.	Mathematical Concepts: Logarithmic relations, curve sketching, linear graphs and calculation of slopes, differentiation of functions like kx^e , x^n , $\sin x$, $\log x$; maxima and minima, partial differentiation.	Lecture	06 Hrs.	Apr - 2021	
2.	Gaseous State: Postulates of kinetic theory of gases, kinetic gas equation, Deduction of Gas Laws: Boyles Law, Charles Law, Grahams Law of diffusion, Avogadro's hypothesis, deviation from ideal behaviour, van der Waals equation of state. Critical Phenomena: PV isotherms of real gases. Unit test.	Lecture	08 Hrs.	Apr - 2021	
3.	Liquid State: Intermolecular forces, structure of liquids (a qualitative description). Difference between solids, liquids and gases. Liquid Crystals: Classification, structure of nematic and cholestric phases.	Lecture	6 Hrs.	May - 2021	
4.	Solid State : Types of solids, Amorphous, crystalline and difference between them, Miller Indices. Laws of crystallography - (i) Law of constancy of interfacial angles (ii) Law of rationality of indices (iii) Law of symmetry. Symmetry elements in crystals. X-ray diffraction by crystals. Derivation of Bragg equation.	Lecture	7 Hrs.	May -2021	


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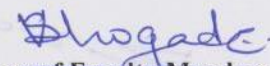
Paper No.: Paper -IV (II Sem.)

Class: B.A. / B.Sc. / M.A. / M.Sc. / I

Name of Faculty Member: Mr. V.S. Hogade

Paper Name: Physical Chemistry

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration Month/ Year	Remarks
5.	Colloidal State : Definition of colloids, classification of colloids. Solids in liquids (sols): properties - kinetic, optical and electrical; stability of colloids, protective action. Hardy - Schulze Law. Liquids in liquids (emulsions): types of emulsions, preparation. Liquids in Solids (gels): classification, preparation and properties, general applications of colloids.	Lecture & LCD Projector	8 Hrs.	June - 2021	
6.	Chemicals Kinetics and Catalysis: Chemical Kinetics and its scope, rate of reaction, factors influencing the rate of reaction - concentration, temperature, pressure, solvent, light, catalyst concentration dependence of rates. Derivation of rate law and characteristics of simple chemical reactions - zero order, first order, second order, Pseudo order, half-life. Effect of temperature on rate of reaction. Arrhenius equation, concept of activation energy. Catalysis: Definition, types, and characteristics of catalysis, homogeneous, heterogeneous catalysis - Enzyme catalysis and its application.	Lecture	10 Hrs.	July, Aug - 2021	


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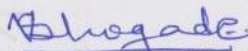
Paper No.: Paper –VIII (III Sem.)

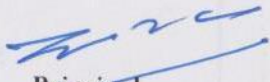
Class: B.A. / B.Sc. / M.A. / M.Sc. / II

Name of Faculty Member: Mr. V.S. Hogade

Paper Name: Physical Chemistry

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration Month/ Year	Remarks
1.	Thermodynamics- I: Definition of <i>Thermodynamic Terms</i> : System, Surrounding types of system, intensive and extensive properties. Thermodynamic Process, Concept of heat and work. Work done in reversible and irreversible process, concept of maximum work (W_{max}), Numerical problems. <i>First law of Thermodynamics</i> : Statement, Definition of Internal energy and Enthalpy. Heat capacity, heat capacities at constant volume pressure and their relationship. Calculation of W , q , du and dH for the expansion of ideal gases under isothermal and adiabatic conditions for reversible process, Numerical problems, Hess's law of heat Summation and its application. Home Assignment.	Lecture	15	Aug - 2020	
2.	Thermodynamic-II: <i>Second Law of Thermodynamics</i> : Need for the law, different statement of the law. <i>Carnot Cycle</i> and its efficiency, Numerical Problems. Carnot Theorem. Concept of <i>Entropy</i> : Definition, Physical significance, Entropy as a State Function. Entropy change in Physical change, Entropy as criteria of Spontaneity & Equilibrium Entropy Change in Ideal Gases. Gibbs and Helmholtz Functions: Gibbs Function (G) and Helmholtz Function (A) as Thermodynamic Quantities. A and G as criteria for Thermodynamic Equilibrium and Spontaneity, their Advantage over Entropy change. Variation A with P , V and T . Unit Test.	Lecture	20	Aug, Sep - 2020	
3.	Chemical Equilibrium: Equilibrium Constant and Free Energy. Thermodynamic Derivation of Law of Mass Action. Le Chatelier's Principle. Reaction Isotherm and Reaction Isochore. Clapeyron Equation, Clausius-Clapeyron Equation and its Application.	Lecture	10	Oct - 2020	


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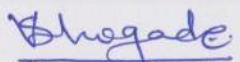
Paper No.: Paper –XI (IV Sem.)

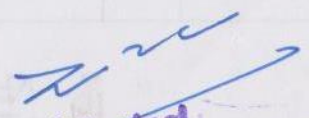
Class: B.A. / B.Sc. / M.A. / M.Sc. / II

Name of Faculty Member: Mr. V.S. Hogade

Paper Name: Physical Chemistry

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration Month/ Year	Remarks
1.	Phase Equilibrium: Statement and Meaning of the Terms: Phase, Component, Degree of Freedom, Derivation of Phase Rule Equation. Phase Equilibria of the One Component System: Water System. Phase Equilibria of Two Components System: Solid-Liquid Equilibria, Simple Eutectic Pb-Ag. System Desilverisation of Lead. Solid Solutions: Compound formation with congruent Melting Point (Mg-Zn) and Incongruent Melting Point ($\text{FeCl}_3 - \text{H}_2\text{O}$) System. Freezing Mixture, Acetone-Dry Ice. Liquid-Liquid Mixture: Raoult's Law and Henry's Law. Ideal and Non-Ideal system, Azeotropes: $\text{HCl} - \text{H}_2\text{O}$ and Ethanol – Water System. Partially Miscible Liquids: Phenol –Water, Tri methyl Amine – Water, Nicotine- water System, Lower and Upper Consulate Temperature. Effect of Impurity on Consulate Temperature. Unit Test.	Lecture & ICT based Teaching material.	15	Nov, Dec - 2020	
2.	Electro Chemistry- I: Electrical Transport: Conduction in metals and in Electrolyte Solutions. Specific Conductance and equivalent conductance, measurement of equivalent conduction, variation of equivalent and specific conductance with dilution. Numerical problems. Kohlrausch's law and its application. Arrhenius Theory of Electrolyte Dissociation and its limitations. Weak and Strong Electrolytes, Ostwald's Dilution Law, its use and Limitations. Transport Number: Definition, Determination by Hittorf's Method and Moving Boundary Method. Conductometric Titration: Types and its advantages.	Lecture	15	Dec – 2020 Jan – 2021	


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Teaching –Plan Academic Year 2020-2021

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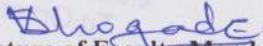
Paper No.: Paper –XI (IV Sem.)

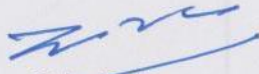
Class: B.A. / B.Sc. / M.A. / M.Sc. / II

Name of Faculty Member: Mr. V.S. Hogade

Paper Name: Physical Chemistry

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration Month/ Year	Remarks
3.	Electrochemistry – II: Types of Reversible Electrodes: Gas-Metal Ion, Metal-Metal Ion, Metal-Insoluble salt Anion and Redox Electrodes. Nernst Equation, Derivation of Cell, E.M.F. and single Electrode Potential, Standard Hydrogen Electrode, Reference Electrodes, Standard Electrode Potential, Sign Conventions, Electro-Chemical Series and its significance. Electrolytic and Galvanic Cells, Reversible and Irreversible Cells, Conventional Representation of Electro Chemical Cells. E.M.F. of a Cell and its Measurement, Calculation of Thermodynamic Quantities of Cell Reactions (ΔG , ΔH and K). Definition of pH, pKa- Determination of pH using SHE and Glass Electrode by Potentiometer method. Buffer- Acidic and Basic Buffers, Mechanism of Buffer Action, Henderson- Hasselbalch equation. Corrosion: Dry (Atmospheric) Corrosion and Wet (Electro-Chemical) Corrosion Electrochemical Theory of Corrosion.	Lecture	15	Jan, Feb - 2021	


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Department of Chemistry

Paper No.: Paper –III (I Sem.)

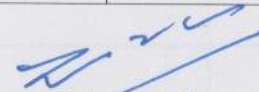
Class: B.A. / B.Sc. / M.A. / M.Sc. / I

Name of Faculty Member: Mr. V.S. Hogade

Paper Name: Lab Course I

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration Month/ Year	Remarks
I.	Volumetric Analysis : 1. Preparation of 0.1N. NaOH solution and its standardization by given oxalic acid solution. 2. Preparation of 0.1 N oxalic acid solution and its standardization by given KMNO ₄ solution.	Lecture & Demonstration	10	Nov - 2020	
II.	Inorganic Qualitative Analysis : Identify two acids and two basic radical from the given binary mixture. a] CdSO ₄ + NH ₄ Cl b] BaCO ₃ + Al ₂ (NO ₃) ₃ c] ZnCO ₃ + KBr d] MnCO ₃ + MgSO ₄ e] NiSO ₄ + MgCO ₃	Lecture & Demonstration	15	Dec - 2020	
III.	Physical Chemistry:				


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Teaching – Plan Academic Year 2020-2021

SKMG / 2020-2021

Department of Chemistry

Paper No.: Paper – III (I Sem.)

Class: B.A. / B.Sc. / M.A. / M.Sc. / I

Name of Faculty Member: Mr. V.S. Hogade

Paper Name: Lab Course I

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration Month/ Year	Remarks
1.	Eudiometer: Determination of Equivalent weight of Mg	Lecture & Demonstration	4	Jan - 2021	
2.	Viscometer: To Determine Viscosity of given liquid (Water / Ethanol) by viscometer	Lecture & Demonstration	4	Jan - 2021	
3.	Stalagmometer: To determine surface tension of given liquid.	Lecture & Demonstration	4	Feb - 2021	
4.	Chemical Kinetics: 1. To study the effect of acid strength on the hydrolysis of an ester. 2. To determine the specific reaction rate of the hydrolysis methyl / ethyl acetate catalyzed by hydrogen ions at room temperature.	Lecture & Demonstration	8	Feb, March - 2021	

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Teaching – Plan Academic Year 2020-2021

SKMG / 2020-2021

Department of Chemistry

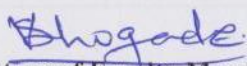
Paper No.: Paper – VI (II Sem.)

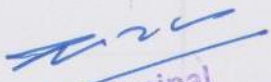
Class: B.A. / B.Sc. / M.A. / M.Sc. / I

Name of Faculty Member: Mr. V.S. Hogade

Paper Name: Lab Course II

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration Month/ Year	Remarks
I.	Organic Qualitative Analysis: Nature / Functional group / Element / Derivative / Physical constant * Benzoic acid, * salicylic acid, * β -naphthol, * p-nitroaniline, * Naphthalene, * Acetanilide.	Lecture & Demonstration	30	Apr, May 2021	
II.	Organic Estimation: <ul style="list-style-type: none">Phenol by BrominationEstimation of basicity, molecular weight of organic acid (oxalic/acetic acid)	Lecture & Demonstration	15	June, July 2021	


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Teaching –Plan Academic Year 2020-2021

SKMG / 2020-2021

Department of Chemistry

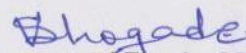
Paper No.: IX (III Sem.)

Class: B.A. / B.Sc. / M.A. / M.Sc. / II

Name of Faculty Member: Dr. V.S. Hogade

Paper Name: Lab Course III

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration Month/ Year	Remarks
1.	<p style="text-align: center;">Section A (Physical Chemistry)</p> <p style="text-align: center;">Non Instrumental</p> <p>i) To determine critical solution temperature of Phenol- water system.</p> <p>ii) To determine solubility of benzoic acid at different temperature and determine ΔH Of dissolution process.</p> <p>iii) To determine heat of neutralization (ΔH_n) of NaOH and HCl</p> <p>iv) To determine heat of neutralization (ΔH_n) of NaOH and Acetic acid.</p> <p>v) Partition coefficient of Benzene – water system using benzoic acid.</p> <p>vi) To determine the equilibrium constant for the reaction: $KI + I_2 \rightleftharpoons KI_3$</p> <p>vii) Determine the molecular mass of polymer from viscometer measurements.</p> <p>viii) To investigate the Kinetics of Iodination of acetone.</p>	Lecture & Demonstration	56	Nov 2020 to Mar 2021	


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Teaching –Plan Academic Year 2020-2021

SKMG / 2020-2021

Department of Chemistry

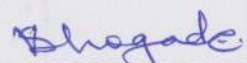
Paper No.: IX (III Sem.)

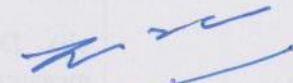
Class: B.A. / B.Sc. / M.A. / M.Sc. / II

Name of Faculty Member: Dr. V.S. Hogade

Paper Name: Lab Course III

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration Month/ Year	Remarks
I.	<p>Section B (Inorganic Chemistry)</p> <p>Gravimetric Estimation: (Any Three)</p> <p>i. Estimation of Zinc gravimetrically as Zinc ammonium phosphate ($ZnNH_4PO_4$)</p> <p>ii. Estimation of Mn gravimetrically as Manganese Ammonium Phosphate ($MnNH_4PO_4$)</p> <p>iii. Estimation of Nickel gravimetrically as Ni-DMG</p> <p>iv. Estimation of Barium gravimetrically as Ba-Chromate ($BaCrO_4$)</p> <p>v. Estimation of Aluminum as Aluminum Oxinate.</p> <p>vi. To determine the equilibrium constant for the reaction: $KI + I_2 \rightleftharpoons KI_3$</p> <p>vii. Determine the molecular mass of polymer from viscometry measurements.</p> <p>viii. To investigate the Kinetics of Iodination of acetone.</p>	Lecture & Demonstration	36	Nov 2020 to Mar 2021	


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Teaching Plan Academic Year 2020-2021

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Class: **B.Sc. II**

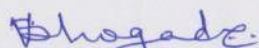
Department of **Chemistry**

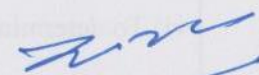
Name of Faculty Member: **Dr. V.S. Hogade**

Paper No.: **Paper – IX (III Sem.)**

Paper Name: **Lab Course III**

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	Complexometric Titration: (Any Two)	Lecture & Demonstration	20	Nov 2020 to Mar 2021	
	i. Estimation of Zinc by EDTA solution using EBT indicator. ii. Estimation of Nickel by EDTA using Murexide indicator iii. Estimation of copper by EDTA using fast sulphon black F indication iv. Estimation of Lead By EDTA using Xylenol Orange indicator.				


Signature of Faculty Member


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Principal
Shrikrishna Mahavidyalaya, Gunjoti
Tq. Omerga Dist. Osmanabad



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching Plan Academic Year 2020-2021

SKMG / 2020-21

Class: B.A. / B.Sc. II

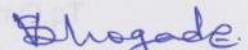
Department of Chemistry

Name of Faculty Member: Dr. V.S. Hogade

Paper No.: Paper -XII (IV Sem.)

Paper Name: Lab Course IV

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	Section A (Physical Chemistry) Instrumentation: i) To determine normality and strength of HCl using (0.1N) NaOH Solution Conductometrically. ii) To determine normality and strength of acetic acid using (0.1N) NaOH solution Conductometrically. iii) To determine normality and strength of HCl using (0.1N) NaOH solution by pH- Metrically. iv) To Verify Lambert-Beers Law using $KMnO_4$ solution. v) To estimate the amount of Sugar using Polarimeter. vi) To determine refractive index of ethanol water system. vii) To determine indicator constant of indicator colorimetrically.	Lecture & Demonstration	56	Apr 2021 to July 2021	


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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching Plan Academic Year 2020-2021

SKMG / 2020-21

Department of Chemistry

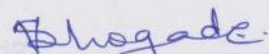
Paper No.: Paper -XII (IV Sem.)


Class: B.Sc. II

Name of Faculty Member: Dr. V.S. Hogade

Paper Name: Lab Course IV

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	Section B: Organic Chemistry Organic Derivatives:- Preparation, Crystallization and Physical Constant. (Any Three) I Acetyl Derivatives : a) Aniline b) Salicylic Acid ii. Benzoyl Derivatives : a) Aniline b) B-naphthol iii. Hydrolysis Derivatives : a) Ethyl Benzoate b) Aspirin iv. Bromo-Derivatives : a) Phenol b) Cinnamic Acid v. Reduction Derivatives : a) M-dinitrobenzene vi. Osazone Derivatives : a) Sucrose b) Glucose	Lecture & Demonstration	36	Apr 2021 to July 2021	


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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI
Teaching Plan Academic Year 2020-2021

SKMG / 2020-21

Department of Chemistry

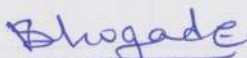
Paper No.: Paper -XII (IV Sem.)


Class: B.Sc. II

Name of Faculty Member: Dr. V.S. Hogade

Paper Name: Lab Course IV

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	Section B: Organic Chemistry Organic Estimations: (Any Two) i. Estimation of nitro group by reduction. ii. Estimation of glucose. iii. Estimation of ester by hydrolysis. iv. Estimation of amides by hydrolysis	Lecture & Demonstration	20	Apr 2021 to July 2021	


Signature of Faculty Member


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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Academic Calendar For 180 Days

Faculty of Science

Academic Year: (2020-21)

(Department of Chemistry)

Name of Faculty Member: Vijaypure Yogiraj Ashok

Term	Month	Working days	Theory Periods	Practical Periods	Total Periods
First Term	November	22	10 + 11 = 21	60	81
	December	26	12 + 13 = 25	56	81
	January	24	10 + 11 = 21	60	81
	February	23	11 + 12 = 23	60	83
	March	06	04 + 02 = 06	12	18
Total 1		101	47 + 49 = 96	248	344
Second Term	April	20	09 + 08 = 17	52	69
	May	23	10 + 09 = 19	56	75
	June	26	12 + 08 = 20	60	80
	July	26	13 + 07 = 20	60	80
	August	06	03 + 03 = 06	08	14
Total 2		101	47 + 35 = 82	236	318
Total 1 + 2			94 + 84 = 178	484	662

Total Working Days = 202

Total Theory Periods = 178

Total Practical Periods = 484



Signature of Faculty Member

SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI.

TIME TABLE 2020-21

Faculty:

Science

Subject

CHEMISTRY

Name of the Teacher:

Vijapur Y.A.

Time	7.00	7.50	8.40	9.30	10.35	11.25	12.15	1.35	2.25	3.15	4.05
	To 7.50	To 8.40	To 9.30	To 10.20	To 11.25	To 12.15	To 1.05	To 2.25	To 3.15	To 4.05	To 4.55
Days	Practical's			Theory			Practical's				
MON.	B.A.I					B.A.I					
TUE.	B.A.I					B.A.I					
WED.						B.A.I	B.A.I				
THU.						B.A.I	B.A.I				
FRI.						B.A.I					
SAT.						B.A.I					

Class	Paper No.	Theory	Paper No.	Practical	Total Periods
B.Sc. I.	I	03	III & VI	08	11
B.Sc. II.	VII	03	IX, XII	08	11
B.Sc. III.					
Total Periods		06		16	22

Name of Teacher:-

Vijapur Y.A.

Head

Principal

Shrikrishna Mahavidyalaya, Gunjoti
Tq. Omurga Dist. Osmanabad

SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching - Learning Academic Plan (2020-21)

Faculty of Science
Department of Chemistry

Class : B.Sc.- I Semester I

Name of the Lecturer : Mr. Yogiraj Ashok Vijapure

Paper No. I

Paper Name : Inorganic Chemistry

Chapter No. Unit No.	Title/Subject	Method of Teaching	No. of Period	Duration of Date/Month/Year	Remark
1	Atomic Structure			Nov	
	Atomic orbital's, Quantum numbers, uncertainty principle	ICT	4		
	shapes of s, p, d orbital's. Aufbau & Pauli exclusion prin.	ICT	4		
	Hund's multiplicity rule. Electronic configurations	ICT	3		
	Bohr's atomic model	ICT	3		
2	Periodic Properties			Dec.	
	Atomic and Ionic radii, Ionization Energy, Electron affinity	Lecture	3		
	Electronegativity	Lecture	2		
	Trends in periodic table and application in predicting and explaining the chemical behavior	Lecture	5		
3	S-Block Elements			Jan.	
	Comparative study, diagonal relationship	ICT	3		
	salient features of hydrides	Lecture	2		
	solvation and complexation tendencies including their function in biosystems	Lecture	5		
4	P - Block Elements			Feb., March	
	Comparative Study of groups 13-17 elements	Lecture	3		
	compounds like hydrides oxides of groups 13-16	Lecture	3		
	Interhalogen compounds and its types	Lecture	4		

Signature of Lecturer

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Tq. Omerga Dist. Osmanabad

SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching - Learning Academic Plan (2020-21)

Faculty of Science
Department of Chemistry

Class : B.Sc.- II Semester III

Name of the Lecturer : Mr. Yogiraj Ashok Vijapure

Paper No.

Paper Name : Organic Chemistry

Chapter No. Unit No.	Title/Subject	Method of Teaching	No. of Period	Duration of Date/Month/Year	Remark
1	Alcohols	Lecture		Nov.	
	<i>Monohydric Alcohols</i> : Methods of Formation by reduction of Aldehydes, Ketones, Carboxylic Acids and Esters		1		
	Acidic Nature, Reactions of Alcohols		1		
	<i>Dihydric Alcohols</i> : Method of Formation of Ethylene Glycol		1		
	industrial method & From Alkene using OsO ₄ , Chemical Reactions		1		
	nitration, Acylation, Oxidation (Using Pb(OAc) ₄		1		
	Pinacol-Pinacolone rearrangement	ICT	1		
	<i>Trihydric Alcohols</i> : Prepn from propane; Reactions of Glycerol.		1		
2	Phenols	Lecture		Dec.	
	Preparation from Chlorobenzene, Cumene, benzene sulph. Acid		2		
	Acidic Nature of Phenol, Resonance stabilization of Phenoxide Ion		1		
	Electrophilic Aromatic Substitution, Acylation, Carboxylation		1		
	intramolecular Fries Rearrangement, Claisen Rearrangement		1		
	Gatterman Synthesis and Reimer Tiemann Reaction		1		
3	Aldehydes and Ketones	Lecture		Jan.	
	<i>Aldehydes</i> : Preparation from Acid Chloride, Gattermann-Koch		2		
	<i>Ketones</i> - Preparation from nitriles and from Carboxylic Acid		2		
	Mechanism of Nucleophilic Additions to Carbonyl Group		2		
	Benzoin, Aldol Knoevenagel condensations, Mannich Reactions		2		
	Use of Acetals as Protecting Group		1		
	Oxidation using Chromium Trioxide, Baeyer-Villiger Oxidation	ICT	1		

Signature of Lecturer

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Shrikrishna Mahavidyalaya, Gunjoti
Tq. Omerga Dist. Osmanabad

SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching - Learning Academic Plan (2020-21)

Faculty of Science
Department of Chemistry

Class : B.Sc.- II Semester III

Name of the Lecturer : Mr. Yogiraj Ashok Vijapure

Paper No.

Paper Name : Organic Chemistry

Chapter No. Unit No.	Title/Subject	Method of Teaching	No. of Period	Duration of Date/Month/Year	Remark
4	Carboxylic Acids	Lecture		Jan. Feb.	
	Acidity of Carboxylic Acids, Effects of substituents on Acid strength		2		
	preparation of Acetic Acid from CO ₂ , Nitriles, Acid Chloride		2		
	Anhydride, Ester and Amide		1		
	Synthesis of Acid Chloride, Ester and Amide		2		
	Hell-Volhard-Zelinsky Reaction. Reduction using LiAlH ₄		1		
	Mechanism of Decarboxylation, Malic, Tartaric and Citric Acid		1		
	Methods of Formation and Chemical reactions of Acrylic Acid		1		
5	Organic Compounds of Nitrogen	Lecture		Feb., March	
	Preparation of <i>Nitroalkanes</i> and <i>Nitroarenes</i>		2		
	Chemical reactions of Nitroalkanes. Nitration of Benzene		2		
	Reduction in Acidic, Neutral and Basic media.		1		
	<i>Amines</i> - Basicity of Amines, Amine Salt as PTC		2		
	Preparation of Alkyl and Aryl Amines		2		
	Reductive Amination, Hoffmann Bromamide Reactions		2		
	Electrophilic Aromatic Substitution in <i>Aryl amines</i>		2		
	Reactions of Amines with Nitrous Acid		1		

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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching - Learning Academic Plan (2020-21)

Faculty of Science
Department of Chemistry

Class : B.Sc.- II Semester III

Name of the Lecturer :Mr. Yogiraj Ashok Vijapure

Paper No.

Paper Name : Lab Course V

Chapter No. Unit No.	Title/Subject	Method of Teaching	No. of Period	Duration of Date/Month/Year	Remark
1	To determine critical solution temperature of Phenol- water system	Demo	3	Nov.	
2	To determine solubility of benzoic acid at different temperature and determine ΔH of dissolution process	Demo	3	Dec.	
3	To determine heat of neutralization (ΔH_n) of NaOH and HCl	Demo	3	Dec.	
4	To determine heat of neutralization (ΔH_n) of NaOH and Acetic acid	Demo	3	Jan.	
5	Partition coefficient of Benzene – water system using benzoic acid.	Demo	3	Feb.	
6	To determine the equilibrium constant for the reaction: $KI + I_2 \rightleftharpoons KI_3$	Demo	3	Feb.	
7	Determine the molecular mass of polymer from viscometry	Demo	3	March	
8	To investigate the Kinetics of Iodination of acetone.	Demo	3	March	

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Tq. Omerga Dist. Osmanabad

SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching - Learning Academic Plan (2020-21)

Faculty of Science
Department of Chemistry

Class : B.Sc.- II Semester III

Name of the Lecturer : Mr. Yogiraj Ashok Vijapur

Paper No.

Paper Name : Lab Course VI

Chapter No. Unit No.	Title/Subject	Method of Teaching	No. of Period	Duration of Date/Month/Year	Remark
1	Estimation of Zinc gravimetrically as Zinc ammonium phosphate	Demo	3	Nov.	
2	Estimation of Mn gravimetrically as manganese ammonium phosphate	Demo	3	Nov.	
3	Estimation of Nickel gravimetrically as Ni-DMG	Demo	3	Dec.	
4	Estimation of Barium gravimetrically as Ba-Chromate ($BaCrO_4$)	Demo	3	Dec.	
5	Estimation of Aluminium as Aluminium Oxinate.	Demo	3	Jan	
6	Estimation of Zinc by EDTA solution using EBT indicator.	Demo	3	Feb.	
7	Estimation of Nickel by EDTA using Murexide indicator	Demo	3	Feb.	
8	Estimation of copper by EDTA using fast sulphon black F indicator	Demo	3	March	
9	Estimation of Lead By EDTA using Xylenol Orange indicator.	Demo	3	March	

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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching - Learning Academic Plan (2020-21)

Faculty of Science
Department of Chemistry

Class : B.Sc.- I Semester II

Name of the Lecturer : Mr. Yogiraj Ashok Vijapure

Paper No.

Paper Name : Inorganic Chemistry

Chapter No. Unit No.	Title/Subject	Method of Teaching	No. of Period	Duration of Date/Month/Year	Remark
1	Chemistry of noble gases	Lecture		April	
	Chemical properties of the noble gases		2		
	structure and bonding in xenon compounds.		2		
2	Chemical Bonding	Lecture		April, May	
	<u>Covalent Bond</u> - Valence theory and its limitations		2		
	directional characteristic, types of hybridization		2		
	shapes of simple inorganic molecules and ions		2		
	VSEPR theory of NH ₃ , SF ₄ , ClF ₃ , ICl ₂ and H ₂ O	ICT	2		
	MO theory, (He, N ₂ and O ₂) and (CO and NO)	ICT	2		
	bond strength and bond energy, percentage ionic character		2		
	Ionic Bonds - Definitions, Factors affecting ionic bond		2		
	Hydrogen bonding, Van-der-Waals forces		2		
	Metallic bond and its free electron concept		2		
3	Nuclear Chemistry	Lecture		May, June	
	Definition; Atomic number, mass number, Isotopes, Isobars	ICT	3		
	mass defect and Binding Energy, Packing fraction N/Z ratio		3		
	Radio activity, props of α , β and γ , Artificial transmutation		2		
	Appls with respect to trans-uranic elements, carbon dating		2		
4	Theory of volumetric Analysis	Lecture		July, Aug.	
	Types of titrations, calibration of pipette and burette		3		
	Indicators in pH - titrations, oxidizing agents used in titrations		3		

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Shrikrishna Mahavidyalaya, Gunjoti
Tq. Omerga Dist. Osmanabad

SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching - Learning Academic Plan (2020-21)

Class : B.Sc.- II Semester IV

Name of the Lecturer :Mr. Yogiraj Ashok Vijapur

Faculty of Science
Department of Chemistry

Paper No.

Paper Name : Inorganic Chemistry

Chapter No. Unit No.	Title/Subject	Method of Teaching	No. of Period	Duration of Date/Month/Year	Remark
1	Chemistry of Elements of First Transition Series	Lecture		April	
	General characteristic features of d-block elements. Properties		3		
	Ionic Size, Atomic Size, Metallic properties		3		
	Ionization potential, magnetic properties, Oxidation State		3		
2	Co-ordination Compounds	Lecture		April, May	
	Werner's Co-ordination Theory and its experimental verification	ICT	2		
	effective atomic Number concept, chelates		2		
	nomenclature of co-ordination compounds, isomerism		3		
	valence bond theory of transition metal complexes	ICT	3		
3	Chemistry of Lanthanide Elements	Lecture		May, June	
	Occurrence and Isolation of Lanthanides, Electronic Configuration		3		
	Oxidation States, Ionic Radii		3		
	Lanthanide Contraction and its Consequences	ICT			
4	Chemistry of Actinides	Lecture		June, July	
	Occurrence, Position in the periodic table, Electronic configuration		3		
	Oxidation State, chemistry of separation of Np, Pu and Am from U		2		
5	Acids and Bases	Lecture		July	
	Arrhenius, Bronsted-Lawry, The Lux-Flood, Solvent System		2		
	Lewis Concept of Acids and Bases		2		
6	Non-Aqueous Solvents	Lecture		Aug.	
	of Solvents and their general Characteristics		1		
	Reaction in Non-Aqueous Solvents with reference to liquid NH ₃		2		
	and liquid SO ₂		2		

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Tq. Omerga Dist. Osmanabad

SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching - Learning Academic Plan (2020-21)

Class : B.Sc.- II Semester IV

Name of the Lecturer :Mr. Yogiraj Ashok Vijapur

Faculty of Science
Department of Chemistry

Paper No.

Paper Name : Lab Course VII

Chapter No. Unit No.	Title/Subject	Method of Teaching	No. of Period	Duration of Date/Month/Year	Remark
1	To determine normality and strength of HCl using (0.1N) NaOH Solution Conductmetrically.	Demo	3	April	
2	To determine normality and strength of acetic acid using (0.1N) Conductmetrically	Demo	3	April	
3	To determine normality and strength of HCl using (0.1N) NaOH solution by pH-metrically	Demo	3	May	
4	To Verify Lambert-Beers Law using KMnO ₄ solution	Demo	3	June	
5	To estimate the amount of Sugar using Polarimeter.	Demo	3	June	
6	To determine refractive index of ethanol water system	Demo	3	July	
7	To determine indicator constant of indicator colorimetrically.	Demo	3	July	

Signature of Lecturer


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Shrikrishna Mahavidyalaya, Gunjoti
Tq. Omerga Dist. Osmanabad

SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching - Learning Academic Plan (2020-21)

Class : B.Sc.- II Semester IV

Name of the Lecturer : Mr. Yogiraj Ashok Vijapur

Faculty of Science
Department of Chemistry

Paper No.

Paper Name : Lab Course VIII

Chapter No. Unit No.	Title/Subject	Method of Teaching	No. of Period	Duration of Date/Month/Year	Remark
1	Acetyl Derivatives of Aniline & Salicylic Acid	Demo	3	April	
2	Benzoyl Derivatives Aniline β -naphthol	Demo	3	April	
3	Hydrolysis Derivative of Ethyl Benzoate & Aspirin	Demo	3	May	
4	Bromo-Derivative of Phenol & Cinnamic Acid	Demo	3	May	
5	Reduction Derivative of m-dinitrobenzene	Demo	3	June	
6	Osazone Derivative of Sucrose & Glucose	Demo	3	June	
7	Estimation of nitro group by reduction.	Demo	3	July	
8	Estimation of glucose	Demo	3	July	
9	Estimation of ester by hydrolysis	Demo	3	July	
10	Estimation of amides by hydrolysis	Demo	3	Aug	
	Signature of Lecturer				
				Principal	

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Shrikrishna Mahavidyalaya, Gunjoti
Tal. Ganga, Dist. Gadchiroli

SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI
Academic Calendar for 180 Days

Faculty of Science

Academic Year- 2020- 2021

Department of Botany

Name of Faculty: Dr. G. M. Rathod

Term	Month	Working days	Theory periods		Practical periods		Total periods
			I	II	I	II	
First Term	November	22	11	11	03	04+04+04	61
	December	26	14	12	04	05+05+03	77
	January	24	11	13	04	03+04+05	72
	February	23	12	11	04	04+04+03	68
	March	06	03	03	01	01+01+01	18
Total 1		101	51	50	48	51+54+48	296
Second Term	April	20	08	12	03	04+04+04	65
	May	23	12	11	05	04+03+04	71
	June	26	14	12	04	05+04+04	77
	July	26	11	15	04	04+05+05	80
	August	06	03	03	01	01+01+01	18
Total 2		101	48	53	51	51+ 51+54	311
Total 1+2		202	99	103	99	102+105+102	607

Total working days = 229

Total theory periods = 202

Total practical periods = 408

Signature of Faculty Member



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Tq. Omerga Dist. Osmanabad

SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

180 Days Academic Calendar

Faculty of: Science

Academic Year- 2020-21

Department of Botany


Name of Faculty: **Dr. G. M. Rathod**

Lockdown

Month	Working days	Theory periods		Practical periods	Total periods
		I	II		
August	20	11	09	...	19
September	25	14	11	...	25
October	24	12	12	...	24



Signature of Faculty Member



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Tq. Omerga Dist. Osmanabad



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year 2020-2021

Class: B.Sc.

Department of Botany

Paper No.: I (I Sem.)

Name of Faculty: Dr. G. M. Rathod

Paper Name: Diversity of Cryptogams - I

Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1.	Viruses: General characters, classification based on host, economic importance, TMV – structure and multiplication	Lecture	04		
	Mycoplasma: General characters	Lecture	01		
	Bacteria: General characters, ultra structure, classification based on shape, reproduction, economic importance	Lecture	05		
	Cryptogams: General characters, classification according to G.M. Smith up to class level	Lecture	01		
	Lichens: General characters, nature of association, forms of thalli, economic importance, structure and reproduction in <i>Usnea</i>			04	
2.	Algae: General characters, classification according to F.E. Fritsch (1935) up to the class level, economic importance.	Lecture	02		
	Systematic position, occurrence, thallus structure, reproduction:-vegetative, asexual and sexual, (excluding development of sex organs) and graphic life cycle with respect to following types: i. Cyanophyceae– <i>Nostoc</i> ; ii. Chlorophyceae– <i>Chara</i> ; iii. Xanthophyceae – <i>Botrydium</i> ; iv. Phaeophyceae – <i>Sargassum</i> ; v. Rhodophyceae – <i>Batrachospermum</i>	Lecture	13		
3	Fungi: General characters, classification according to Alexopoulos and Mims (1979) up to the class level, economic importance	Lecture	03		
	Systematic position, occurrence, structure of mycelium, reproduction - asexual, sexual and graphic life cycle with respect to the following types: i) Oomycetes– <i>Albugo</i> ; ii) Zygomycetes– <i>Mucor</i> ; iii) Ascomycetes– <i>Eurotium</i> ; iv) Basidiomycetes – <i>Agaricus</i> ; v) Deuteromycetes – <i>Cercospora</i>	Lecture	12		

Signature of Faculty

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Shrikrishna Mahavidyalaya, Gunjoti
Tq.Omerga Dist.Osmanabad



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year 2020-2021

Class: B.Sc.

Department of Botany

Paper No.: III (I Sem.)

Name of Faculty: Dr. G. M. Rathod

Paper Name: **Diversity of Cryptogams - (Pract.)**

Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1.	Study of simple and compound microscope	Demonstration	03		
2.	Virus: Tobacco Mosaic Virus	Demonstration	03		
3.	Gram staining in bacteria, forms of Bacteria	Demonstration	03		
4	Algae: a) <i>Nostoc</i> b) <i>Chara</i> c) <i>Botrydium</i> d) <i>Sargassum</i> e) <i>Batrachospermum</i>	Demonstration	03		
5	Fungi: a) <i>Albugo</i> b) <i>Mucor</i> , c) <i>Eurotium</i> d) <i>Agaricus</i> e) <i>Cercospora</i>	Demonstration	03		
6	Lichens: Form - Crustose, Foliose, Fruticose; <i>Usnea</i> .	Demonstration	03		

Signature of Faculty

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Shrikrishna Mahavidyalaya, Gunjoti
Tq. Omerga Dist. Osmanabad



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year 2020-2021

Class: B.Sc.

Department of Botany
Paper No.: IV (II Sem.)

Name of Faculty: Dr. G. M. RATHOD
Paper Name: Diversity of Cryptogams - II

Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1.	Bryophytes: 1.1 General characters of bryophytes, classification as per G. M. Smith; Systematic position, occurrence, thallus structure (external and internal), reproduction-vegetative, asexual, and sexual (excluding developmental stages), graphic life cycle and alternation of generations of the following types: a) Hepaticopsida – <i>Marchantia</i> b) Bryopsida – <i>Fumaria</i>	Lecture	15		
2.	Pteridophytes: General characters of Pteridophytes, classification as per G. M. Smith; Systematic position, occurrence, external and internal structure of sporophyte and gametophyte, reproduction (excluding developmental stages), graphic life cycle and alternation of generations of the following types: a) Psilopsida – <i>Psilotum</i> b) Lycopsida – <i>Lycopodium</i> , <i>Selaginella</i> c) Sphenopsida – <i>Equisetum</i> d) Pteropsida – <i>Marsilea</i>	Lecture	30		

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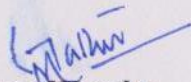
Teaching –Plan Academic Year 2020-2021

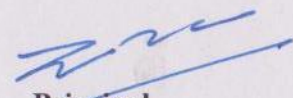
Class: B.A. / B.Sc. / M.A. / M.Sc.

Department of Botany
Paper No.: VI (II Sem.)

Name of Faculty: **Dr. G. M. RATHOD**
Paper Name: **Diversity of Cryptogams-II (Practical)**

Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1.	Bryophytes: i. <i>Marchantia</i>	Demonstration	7		
2.	Bryophytes: ii. <i>Funaria</i>	Demonstration	8		
3.	Pteridophytes: i. <i>Psilotum</i>	Demonstration	6		
4.	Pteridophytes: ii. <i>Lycopodium</i>	Demonstration	6		
5	Pteridophytes: iii. <i>Selaginella</i>	Demonstration	6		
6	Pteridophytes: iv. <i>Equisetum</i>	Demonstration	6		
7	Pteridophytes: v. <i>Marsilea</i>	Demonstration	6		


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Teaching –Plan Academic Year 2020-2021

Class: **B.Sc.**

Department of **Botany**

Paper No.: **VIII (III Sem.)**

Name of Faculty: **Dr. G. M. RATHOD**

Paper Name: **Plant Ecology**

Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1.	A) Climatic factors – a) Light as an ecological factor, global radiation and photosynthetically active radiation b) Temperature as an ecological factor c) Water as an ecological factor, physicochemical properties of water	Lecture	06		
	B) Edaphic factor –Soil formation -soil profile, physicochemical properties of soil, major soil types of India, soil erosion and soil conservation		09		
2.	Response of plants to water- Morphological, physiological and anatomical response of plants to water – hydrophytes, xerophytes, halophytes and epiphytes Phytogeography: Biogeographical regions of India, vegetation types of India	Lecture	15		
3.	Community ecology: Community characteristics -frequency, density, life forms, biological spectrum Ecosystem: structure -biotic and abiotic components, food chain, food web, ecological Pyramids, energy flow, biogeochemical cycles-nitrogen and phosphorus.	Lecture	15		

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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year 2020-2021

Class: B.Sc.

Department of Botany
Paper No.: X (III Sem.)

Name of Faculty: Dr. G. M. RATHOD
Paper Name: Plant Ecology (Practical)

Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1.	Study of morphological and anatomical adaptations in hydrophytes – <i>Hydrilla</i> , <i>Eichhornia</i> , <i>Typha</i> and <i>Nymphaea</i> .	Demonstration	06		
2.	Study of morphological and anatomical adaptations in xerophytes - <i>Aloe</i> , <i>Nerium</i> , <i>Casuarina</i> .	Demonstration	03		
3.	Study of morphological adaptations in halophytes -Pneumatophores, Stilt roots	Demonstration	03		
4.	Study of morphological and anatomical adaptations in epiphytes	Demonstration	03		
5.	Study of vegetation by quadrat method	Demonstration	06		
6.	Estimation of Importance Value Index (IVI) of grassland ecosystem on the basis of relative frequency, relative density and relative abundance.	Demonstration	06		
7.	Determination of water holding capacity of different soils	Demonstration	03		
8.	Study of meteorological instruments -Rain gauge, Hygrometer, Barometer Estimation of salinity of different water samples	Demonstration	03		
9.	Determination of percent leaf area injury of different infected leaf samples	Demonstration	06		
10.	Determination of pH of different soils by pH papers/universal indicator/pH meter.	Demonstration	06		

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Teaching –Plan Academic Year 2020-2021

Class: B.A. / B.Sc. / M.A. / M.Sc.

Department of Botany
Paper No.: XII (IV Sem.)

Name of Faculty: Dr. G. M. RATHOD

Paper Name: Plant Physiology

Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1.	A) Diffusion, osmosis, Plasmolysis and imbibition. b) Water absorption and ascent of sap (Transpiration pull theory) c) Transpiration – Definition, types-cuticular, lenticular and stomatal, structure of stomata, mechanism of opening and closing of stomata(starch – sugar hypothesis).a) Macro and microelements: roles and deficiency symptoms of N, P,K, Mg, Ca, Fe, Zn, Bo, Mo, b) Mineral uptake – passive (ion exchange theory) and active (carrier concept) Translocation of solutes: Mass flow hypothesis, protoplasmic streaming theory, Source and sink relationship	Lecture	15		
2.	Enzymes: Chemical nature holoenzyme, apoenzyme, prosthetic group, cofactor and coenzyme, properties, nomenclature, classification based on type of reactions, mechanism of enzyme action. Growth: Definition, Phases of Growth, Sigmoid growth curve. Growth regulators: Discovery, structure, roles and practical applications of Auxins, Gibberellins, Cytokinins, Abscisic acid and Ethylene	Lecture	15		
3.	Photosynthesis: Definition, ultra structure of chloroplast, photosynthetic pigments, Light reactions -Hill reaction, red drop and Emerson enhancement effect, two pigment systems (PS I, PS II), Photophosphorylation – cyclic and Non-cyclic, Z-scheme; Dark reactions -C3, C4 and CAM pathways Respiration: Definition, Ultra structure of mitochondria, types of respiration, Glycolysis, TCA Cycle, Electron transport system, alcoholic and lactic acid fermentation.	Lecture	15		

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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year 2020-2021

Class: B.A. / B.Sc. / M.A. / M.Sc.

Department of Botany

Paper No.: XIV (IV Sem.)

Name of Faculty: Dr. G. M. RATHOD

Paper Name: Plant Physiology (Pract.)

Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1.	Osmosis by egg membrane and potato osmoscope; Plasmolysis in <i>Tradescantia</i> leave	Demonstration	03		
2.	Effect of different conc. of organic solvents on membrane permeability	Demonstration	03		
3.	Determination of water potential of any tuber Detection of mineral elements in plant ash	Demonstration	06		
4.	Digestion of starch by amylase Detection of enzyme activity : oxidase, peroxidase, catalase and dehydrogenase	Demonstration	06		
5.	Separation of chloroplast pigments by paper chromatography Separation of amino acids by paper chromatography	Demonstration	06		
6.	Effect of different intensities of light on photosynthesis Effect of different colours of light on photosynthesis	Demonstration	06		
7.	Fermentation by Kuhne's fermentation vessel	Demonstration	03		
8.	Isolation of starch Isolation of pectin	Demonstration	03		
9.	Estimation of total and reducing sugars in fruit juice by Fehling solution Effect of IAA and Gibberellins on seed germination	Demonstration	09		

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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

180 Days Academic Calendar

Faculty of : Science

Academic Year- 2020-21

Department of Botany

Name of Faculty: Dr. D. P. Chavan

Term	Month	Working days	Theory periods			Practical periods			Total periods
			I	II	III	I	II	III	
	November	22	00	11	11	03	11	04	76
	December	26	00	14	14	04	12	05	91
	January	24	00	11	11	04	11	04	79
	February	23	00	12	12	04	11	04	81
	March	03	00	03	03	01	01	01	15
Total 1		101	00	51	51	16	46	18	342
	April	20	00	09	08	04	09	04	68
	May	23	00	12	11	05	11	04	83
	June	26	00	14	12	04	13	04	89
	July	26	00	11	15	04	14	05	95
	August	06	00	03	03	01	03	01	21
Total 2		101	00	49	49	18	50	18	356
Total 1+2		202	00	100	100	34	96	36	698

Total working days = 202

Total theory periods = 200

Total practical periods = 498

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Tq. Omerga Dist. Osmanabad

SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

180 Days Academic Calendar

Faculty of : Science

Academic Year- 2020-21

Department of Botany

Name of Faculty: Dr. D. P. Chavan

Lockdown

Month	Working days	Theory periods		Practical periods	Total periods
		II	III		
August	20	09	10	...	19
September	25	14	11	...	25
October	24	12	13	...	25





SRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year (2018-2019)

Class: B.Sc. Second Year.

Department of Botany

Paper No.: Paper –VII (III Sem.)

Name of Faculty: Dr. D. P. Chavan

Paper Name: Taxonomy of Angiosperms

Chap. No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1.	1. Salient features, origin and evolution of Angiosperms (03) 2. Systems of classification- Introduction to Natural, Artificial & Phylogenetic (01) 3. Bentham and Hooker's system of classification upto series level, its merits and demerits (02) 4. Taxonomy in relation to anatomy, embryology, palynology, ecology and cytology (05) 5. Concept of Binomial Nomenclature and its advantages (02) 6. Concept of genus, species and epithet. (02) 7. Herbaria and Botanical Gardens. (05)	Lecture	20	3,4,5/8/2020 10/8/2020 11,17/8/2020 18-25/8 to 1/9/2020 2,7/9/2020 8,9/9/2020 14-22/9/2020	
2.	Study of the following families: systematic position , (25) salient features, floral formula, floral diagram, common examples and their economic importance i. Annonaceae ii. Malvaceae iii. Leguminosae Fabaceae (Papilionaceae) Caesalpiniaceae Mimosaceae iv. Apocynaceae v. Solanaceae vi. Acanthaceae vii. Lamiaceae (Labiatae) viii. Nyctaginaceae ix. Liliaceae x Poaceae (Gramineae)	Lecture	25	23,28/9/2020 29,30/9/2020 5-14/10/2020 21,26/10/2020 27,28/10/2020 2,3/11/2020 4,9/11/2020 10,11/11/2020 17/18/11/2020 17,22,23/10/20198	

Teaching –Plan Academic Year (2018-2019)

Class: **B.Sc. S.Y.**
Department of **Botany**

Name of Faculty: **Dr. D. P. Chavan**

Paper No.: **Paper - IX (III Sem.)**

Paper Name: (Taxonomy of Angiosperms) (**Practical**)

Chap. No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of ate / Month/ Year	Remarks
1.	Study of locally available plants of the following families : 1. Annonaceae 2. Malvaceae 3. Leguminosae a) Fabaceae (Papilionaceae) b) Caesalpinaceae c) Mimosaceae 4. Apocynaceae 5. Solanaceae 6. Acanthaceae 7. Lamiaceae (Labiatae) 8. Nyctaginaceae 9. Liliaceae 10. Poaceae (Gramineae)	Demonstration	45	4,7,8/8/2020 11,14/8/2020 18,21/8/2020 25,28,29/8/2020 25.28.29/8/2020 1,4,5/9/2020 8,11,12/9/2020 15,18,19/9/2020 22,25,26/9/2020 29/9 to 3/10/2020 13,16,17/10/2020 20,23,24/10 & 27,31/10/2020	

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eaching –Plan Academic Year (2018-2019)

Class: **B.Sc. T. Y.**

Department of **Botany**

Paper No. **XX (A) Sem (V)**

Name of Faculty: **Dr. D. P. Chavan**

Paper Name: **(Diversity of Angiosperms-I) (Practical)**

Chap. No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1.	1. Study of herbarium	Demonstration		6/8/2020	
	2. Study of analytical characters			13/8/2020	
	3. Preparation of indented and bracketed keys			20/8/2020	
	4. Study of following families:				
	1. Magnoliaceae			27/8/2020	
	2. Nymphaeaceae			3/9/2020	
	3. Papaveraceae			10/9/2020	
	4. Brassicaceae			24/9/2020	
	5. Capparidaceae			1/10/2020	
	6. Rutaceae,			8/1/2020	
	7. Rhamnaceae			15/10/2020	
	8. Combretaceae			22/10/2020	
	9. Lythraceae			5/11/2020	
	10. Cucurbitaceae			12/11/2020	
	11. Apiaceae,			19/11/2020	
	5. Mounting of pollen grains (acetolysis method)			26/11/2020	

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Tq. Osmanabad

Timing –Plan Academic Year (2018-2019)

Class: B.Sc. S.Y.

Department of **Botany**

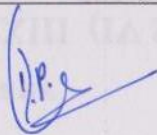
Paper No.: **Paper - XI (IV Sem.)**

Name of Faculty: **Dr. D. P. Chavan**

Paper Name: **Gymnosperms and Utilization of Plants**

Chap. No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1.	Gymnosperms: 1. Salient features, classification as per Sporne 1965, economic importance 02 2. Geol. time scale, fossilization, types of fossils, Lyginopteris, fossil fuels 04 3. Contributions of Prof. Birbal Sahani (01) 4. Study of morphology, anatomy, reproduction (excluding developmental stages) and graphical representation of life cycle of the following types: a) Cycadales – Cycas (05) b) Coniferales – Pinus (06) c) Gnetales – Gnetum (05)	Lecture	23	5,6/4/2021 7,12,19,20/4/2021 26/4/2021 27,28//4 to 3,4,5/5/2021 10-19/4/2021 24,25/5/2021 to 1,2,7/6/2021	
2.	Utilization of Plants: 1. Domestication of plants and their centres of origin (02) 2. History, origin, cultivation, harvesting, improved varieties and economic importance of the following plants: (15) i. Food plants – Wheat, Jowar ii) Sugar – Sugarcane ii. Fibers -Cotton, Jute Vegetable oils – Groundnut, Sunflower iii. Beverages – Tea, Coffee 3. Botanical name, family and economic importance of the following plants (5) i. Medicinal plants – Aloe vera, Withania somnifera, Curcuma longa, Vitex negundo ii. Timber and Gum – Teak, Neem, Babul, Sisham iii. Cosmetics and Perfumes – Rose, Mogara, Tuberose iv. Spices – Clove, Black pepper, Cumin, Coriander, Cinnamon	Lecture	22	8,9/6/2021 14/6 to 14/7/2021 19 – 28 /7/2021	

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Tq. Omerga Dist. Osmanabad

Teaching –Plan Academic Year (2018-2019)

Class: **B.Sc. S.Y.**

Department of **Botany**

Name of Faculty: **Dr. D.P. Chavan**

Paper No.: **Paper XIII (IV Sem.)**

Paper Name: **Gymnosperms and Utilization of plants (Pract.)**

Chap. No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1.	Gymnosperms: a) Cycas i. Habit, young leaf, bulbils, male cone, microsporophyll, megasporophyll, pollen grains, mature seed. ii. Study through permanent slides-Normal root (T.S.). Stem (T.S.), Ovule (L.S.) iii. Study through hand section-Coralloid root (T.S.), Rachis (T.S.), Leaflet (T.S.) b) Pinus i. Habit, long and dwarf shoot, scale leaves, foliage leaves, male cone, female cone, pollengrains (W.M.), winged seed. ii. Study through hand sections and permanent slides Root (T.S.), Stem (T.S.), Needle (T.S.) iii. Study through permanent slide - T.L.S. & R.L.S. of stem, L.S. of male cone, L.S. of female cone Palaeobotany: a) Types of fossils (Specimens) b) Lygynopteris (Specimen / Permanent slide) c) Gnetum Habit, T.S.Stem, Male and Female cone	Demonstration		16,17/4/2021 20,23,24/4/2021 27,30/4/2021 4/5 to 22/5/2021 25,28,29/5/2021	
2.	Palaeobotany: a) Types of fossils (Specimens) b) Lygynopteris (Specimen / Permanent slide)	Demonstration		1,4,5/6/2021	
3.	Utilization of plants : a) Food plants – Study of the morphology, structure, and histochemical tests of food storing tissue in Jowar & Wheat b) Histochemical test of lignin and cellulose c) Vegetable oils – hand section of Groundnut & Sunflower Seed and staining of oil droplets by Sudan III d) Study of the sources of Timber, Gum, Medicinal plants, Cosmetics and Perfumes e) Study of Black pepper, Clove, Cinnamon, Cumin, Coriander f) Field notebook, specimen collection, and tour report.	Demonstration		8,11,12/6/2021 15,18,19/6/2021 22,25,26/6/2021 29/6 to 2,3/7/2021 6,9,10/7/2021 13,16,17/2021	



Teaching –Plan Academic Year (2018-2019)

Class: **B.Sc. T. Y.**

Department of **Botany**

Paper No.: **Paper XXII (A) Sem VI**

Name of Faculty: **Dr. D. P. Chavan**

Paper Name: **(Diversity of Angiosperms-II)**

Chap. No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1.	Unit: 1 Plant identification: keys, herbaria and botanical gardens (04) Origin of angiosperms: origin and evolution, Bennettitalean, Ranalian and Caytonial theory (05) Binomial nomenclature: Principles and rules (03) Modern trends in taxonomy: Cytotaxonomy, chemotaxonomy, and numerical taxonomy (03)	Lecture	15	8,9,10/15/4/2021 16-24/4/2021 29/4 to 7/5/2021 8/5 to 15/5/2021	
2.	Unit.2 1. Phytotaxonomy: Study of Engler & Prantle, Hutchinson, Takhtajan system of classification (10) 2. Study of diversity of families: (20) a. Asclepiadaceae b. Scrophulariaceae c. Oleaceae d. Convolvulaceae e. Verbenaceae f. Amaranthaceae g. Euphorbiaceae h. Orchidaceae i. Liliaceae j. Commelinaceae	Lecture	30	20/5 to 10/6/2021 11,12/6/2021 17,18/6/2021 19,24/6/2021 25,26/6/2021 1,2/7/2021 3,8/7/2021 9,10/7/2021 15,16/7/2021 17,22/7/2021 23,24/7/2021	

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Tq. Omerga Dist. Osmanabad

Teaching –Plan Academic Year (2018-2019)

Class: **B.Sc.T. Y.**

Department of **Botany**

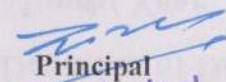
Paper No.: **Paper XXIV (A) Sem VI**

Name of Faculty: **Dr. D. P. Chavan**

Paper Name: **(Diversity of Angiosperms-II) (Practical)**

Chap. No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1.	<p>Study of following families:</p> <ol style="list-style-type: none"> 1. Oleaceae 2. Asclepiadaceae 3. Convolvulaceae 4. Scrophulariaceae 5. Verbenaceae 6. Amaranthaceae 7. Euphorbiaceae 8. Orchidaceae 9. Liliaceae 10. Commelinaceae <ol style="list-style-type: none"> 2. Mounting of pollen grains (acetolysis method) and measurement of pollen size. 3. Study of different types of stomata and epidermal structures (Trichome) 4. Identification of plants up to species by using flora (Flora of Bombay Presidency/ Flora of Marathwada) 5. Students should undertake excursion to ecologically different areas for plant study and submission of at least 10 wild plants at the time of examination. 	Demonstration		<p>15/4/2021</p> <p>22/4/2021</p> <p>29/4/2021</p> <p>6/5/2021</p> <p>13/5/2021</p> <p>20/5/2021</p> <p>27/5/2021</p> <p>3/6/2021</p> <p>10/6/2021</p> <p>17/6/2021</p> <p>24/6/2021</p> <p>1/7/2021</p> <p>8/7/2021</p> <p>15/7/2021</p>	

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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year (2018-2019)

Class: B.Sc. First Year.

Department of Botany

Paper No.: Paper –III (Practical)


Name of Faculty: Dr. D. P. Chavan

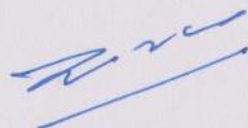
Paper Name: Taxonomy of Angiosperms

Chap. No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1.	<p>1. Study of simple and compound microscope</p> <p>2. Virus: Tobacco Mosaic Virus</p> <p>3. Gram staining in bacteria, forms of Bacteria</p> <p>4. Algae:</p> <p>a) <i>Nostoc</i></p> <p>b) <i>Chara</i></p> <p>c) <i>Botrydium</i></p> <p>d) <i>Sargassum</i></p> <p>e) <i>Batrachospermum</i></p> <p>5. Fungi:</p> <p>a) <i>Albugo</i></p> <p>b) <i>Mucor</i>,</p> <p>c) <i>Eurotium</i></p> <p>d) <i>Agaricus</i></p> <p>e) <i>Cercospora</i></p> <p>6. Lichens: Form - Crustose, Foliose, Fruticose; <i>Usnea</i>.</p> <p>Morphology of Angiosperms.</p> <p>1. Study of root and its modifications:</p> <p>a) Tap root</p> <p>b) Adventitious root</p> <p>c) Storage roots</p> <p>d) Stilt root</p> <p>e) Respiratory root.</p> <p>2. Study of stem and its modifications:</p> <p>a) Underground stem</p> <p>b) Sub aerial stem</p> <p>c) Aerial stem</p> <p>3. Study of leaf and its diversity:</p>	Demonstration		<p>9/11/20</p> <p>23/11/20</p> <p>7/11/20</p> <p>14/12/20</p> <p>21/12/20</p> <p>28/12/20</p> <p>4/1/2021</p> <p>11/1/2021</p> <p>18/1/2021</p> <p>25/1/2021</p> <p>1/2/2021</p>	

<ul style="list-style-type: none"> a) Types of leaf (Simple, Compound) b) Shape and size c) Venation d) Phyllotaxy e) Modifications 				
<p>4. Study of inflorescence:</p> <ul style="list-style-type: none"> a) Racemose b) Cymose c) Special 			8/2/2021	
<p>5. Study of flowers:</p> <ul style="list-style-type: none"> a) Typical flower (<i>Hibiscus / Datura</i>) b) Hypogynous, Perigynous and Epigynous c) Aestivation d) Forms of corolla – cruciform, papilionaceous, infundibuliform and bilabiate e) Parts of typical stamen, adhesion and cohesion. f) Parts of typical carpel and placentation 			15/2/2021	
<p>6. Study of flowers with respect to pollination mechanism:</p> <ul style="list-style-type: none"> a) <i>Calotropis</i> b) <i>Ocimum</i> c) <i>Salvia</i> d) <i>Helianthus</i> e) <i>Ficus</i> f) <i>Clitoria</i> 			22/2/2021	
<p>7. Study of fruits:</p> <ul style="list-style-type: none"> a) Simple: legume, capsule, caryopsis, achene, drupe, berry. b) Aggregate: an etaerio of berries, an etaerio of follicles. c) Composite fruit: sorosis, syconus. 			1/3/2021	
<p>a) Bryophytes:</p> <ul style="list-style-type: none"> i. <i>Marchantia</i> ii. <i>Funaria</i> 			12/4/21	
<p>b) Pteridophytes:</p> <ul style="list-style-type: none"> i. <i>Psilotum</i> ii. <i>Lycopodium</i> iii. <i>Selaginella</i> iv. <i>Equisetum</i> v. <i>Marsilea</i> 			19/4/21	
<p>Histology, Anatomy and Embryology</p> <p>Histology:</p> <ul style="list-style-type: none"> 1. Meristem: root apex and shoot apex 2. Permanent tissues – simple, comp and secretary 			26/4/21 3/5/21 10/5/21 17/5/21	
			24/5/21 7/6/21	

	<p>3. Epidermal tissues: trichomes and stomata</p> <p>Anatomy:</p> <ol style="list-style-type: none"> 1. Anatomy of young dicot (Sunflower) and monocot (Maize) root. (Double stained permanent slide preparation) 2. Anatomy of young dicot (Sunflower) and monocot (Maize) stem. (Double stained permanent slide preparation) 3. Anatomy of dicot (Sunflower) and monocot (Maize) leaf. (Double stained permanent slide preparation) <p>Embryology:</p> <ol style="list-style-type: none"> 1. Study of T.S. of anther 2. Structure of ovule (anatropous), types of ovules 3. Study of Dicot and Monocot seed (embryo) 			<p>14/6/21</p> <p>21/6/21</p> <p>28/6/21</p> <p>5/7/21</p> <p>12/7/21</p> <p>19/7/21</p> <p>26/7/21</p>	
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Dr. R. P. Chavan


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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Academic Calendar For 180 Days

Faculty of Arts/Science /Management Science Academic Year- 2020-2021

Department of Botany

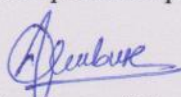
Name of Faculty: Dr. M. G.Ambuse


Term	Month	Working days	Theory periods		Practical periods		Total periods	
			I	III	I	III	I	III
First Term	November	22	11	11	08	11	44	35
	December	26	12	14	08	13	36	53
	January	24	13	11	08	12	37	47
	February	23	11	12	07	12	32	48
	March	06	02	03	03	02	08	12
Total 1		101	50	51	33	51	148	204
Second Term	April	20	11	09	09	09	38	36
	May	23	11	12	07	11	32	45
	June	26	12	13	08	11	36	46
	July	26	15	11	10	11	45	44
	August	06	03	03	03	02	09	12
Total 2		101	53	48	36	45	160	183
Total 1+2		202	103	99	69	96	308	387

Total working days = 202

Total theory periods = $99/103=202$

Total practical periods = $69/96=495$


Signature of Faculty


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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year (2020-2021)

Class: B.A. / B.Sc. / M.A. / M.Sc. / Management Science

Department of Botany

Paper No.: Bot-102, Paper –II (I Sem.)

Name of Faculty: Dr. M. G. Ambuse

Paper Name: Morphology of Angiosperms

Chap. No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1.	1.1- Basic body plan of flowering plant, modular type of growth, diversity of plant forms – Herbs, Shrubs, Trees, Climbers; annuals, biennials and perennials.	Lecture	02	5,6 November	
	1.2 Morphology of vegetative organs: a) Root: Characteristics, functions, regions of root, types – tap and adventitious, modification of root for storage, mechanical support (stilt root) and vital functions (Pneumatophores).	Lecture	04	7,12,13,19 November	
	b) Stem: Characteristics, functions, modification – underground, sub aerial and aerial	Lecture	03	20,21,26 November	
	c) Leaf: Parts of typical leaf, phyllotaxy, types (simple and compound), diversity in shape and size, venation and modifications of leaf.	Lecture	06	27,28,3,4,5,10 Nov/December	
2.	Morphology of reproductive organs: 2.1 Inflorescence: Racemose, cymose and special types	Lecture	05	11,12,17,18,19 December	
	2.2 Flower: Definition, parts of typical flower, forms of thalamus, androphore, Gynophores, gynandrophore, insertion of floral whorls on thalamus (hypogyny, perigyny and epigyny),	Lecture	15	24,26,31,1,2,7,8,9,15, 16,21,22,23,28,29 Jan	
	Structure, function and modification of calyx, corolla, androecium, gynoecium, aestivation and placentation.	Lecture	06	30,4,5,6,11,12 Feb	
	2.3 Fruit: Types of fruits 2.4 Fruit and Seed dispersal strategies.	Lecture	04	13,18,5,6 Feb/March	

Signature of Faculty

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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year (2020-2021)

Class: B.A. / B.Sc. / M.A. / M.Sc. / Management Science

Department of Botany

Paper No.: Bot. Paper –III (I Sem.)

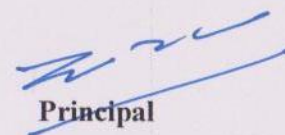
Name of Faculty: Dr. M. G. Ambuse

Paper Name: III (Practical)

Chap. No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1.	Study of simple and compound microscope.	Demonstration	03	5,6,12 Nov.	
2.	Virus : Tobacco Mosaic Virus	Demonstration	03	13,19,20 Nov.	
3.	Gram staining in bacteria, forms of Bacteria	Demonstration	03	26,27,3 Nov/Dec.	
4	Algae:(a) Nostoc (b) Chara (c) Botrydium (d) Sargassum (e) Batrachospermum	Demonstration	03	4,10,11Dec.	
5	Study of flowers with respect to pollination mechanism- Calotropis, Ocimum, Salvia, Helianthus, Ficus, Clitoria	Demonstration	03	17,18,24 Dec.	
6	Study of fruits- Simple: legume, capsule, caryopsis, achene, drupe, berry. Aggregate: an etaerio of berries, an etaerio of follicles. Composite fruit: sorosis, syconus.	Demonstration	03	31,7,8Dec/Jan.	



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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year (2020-2021)

Class: B.A. / B.Sc. / M.A. / M.Sc. / Management Science

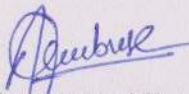
Department of Botany

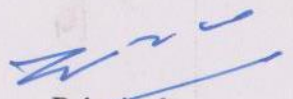
Paper No.: Bot. Paper –III (I Sem.)

Name of Faculty: Dr. M. G. Ambuse

Paper Name: III (Practical)

Chap. No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1.	Study of root and its modifications- Tap root, Adventitious root, Storage root, Stilt root, Respiratory root	Demonstration	03	31,7,8Dec/Jan	
2.	Study of stem and its modifications- Underground stem, Sub aerial stem, Aerial stem	Demonstration	03	14,15,21 Jan	
3.	Study of leaf and its diversity- Types of leaf (Simple Compound), Shape and size, Venation, Phyllotaxy, Modifications	Demonstration	03	22, 28,29 Jan	
4	Study of inflorescence- Racemose, Cymose, Special Study of flower- Typical flower (Hibiscus/Datura), Hypogynous, Perigynous, Epigynous, Aestivation, Forms of Corolla- cruciform, papilionaceous, infundibuliform and bilabiate, Parts of typical stamen, adhesion and cohesion, Parts of typical carpel and placentation	Demonstration	03	4,5,11 Feb	
5	Study of flowers with respect to pollination mechanism- Calotropis, Ocimum, Salvia, Helianthus, Ficus, Clitoria	Demonstration	03	12,18,25 Feb	
6	Study of fruits- Simple: legume, capsule, caryopsis, achene, drupe, berry. Aggregate: an etaerio of berries, an etaerio of follicles. Composite fruit: sorosis, syconus.	Demonstration	03	26,4,5Feb/March	


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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year (2020-2021)

Class: B.A. / B.Sc. / M.A. / M.Sc. / Management Science

Department of Botany

Paper No.: Botany, Paper –V (II Sem.)

Name of Faculty: Dr. M. G. Ambuse

Paper Name: Histology, Anatomy and Embryology

Chap. No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1.	Types of tissue: i. Meristematic tissue – Meristem, structure and types based on origin and position.	Lecture	03	8,9,10 April	
	ii. Permanent tissues: Simple, Complex and Secretary	Lecture	06	15,16,17,22,23,24 April	
	iii. Epidermal tissues: Trichomes and Stomata b) Histological organization of root and shoot apices c) Various theories of cellular organization	Lecture	06	29,30,6,7,8,14 April/May	
2.	Anatomy: a) Primary structure of root, stem and leaf of Monocot (Maize) and Dicot (Sunflower)	Lecture	07	15,20,21,22,27,28,29, 3 May/June	
	b) Secondary growth in root and stem of Dicot (Sunflower) c) Wood anatomy: Growth rings, heart wood and sap wood d) Periderm: Origin, structure and functions.	Lecture	08	4,5,10,11,12,17,18, 19,24 June	
3.	Embryology: a) Structure of anther, microsporogenesis and development of male gametophyte	Lecture	03	25,26, 1,2 June/July	
	b) Structure and types of ovule, megasporogenesis and development of female gametophyte (Polygonum type). c) Pollination -Mechanism, types and agencies.	Lecture	06	3,8,9,10, 15,16,17 July	
	d) Double fertilization and its significance e) Development of Dicot embryo (Crucifer type). f) Structure, development and types of endosperm. g) Structure of dicot and monocot seed	Lecture	06	22,23,24,29,30,31,5,6 July Aug	

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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year (2020-2021)

Class: B.A. / **B.Sc.** / M.A. / M.Sc. / Management Science

Department of **Botany**

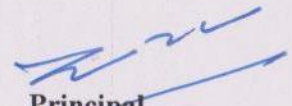
Name of Faculty: **Dr. M. G. Ambuse**

Paper No.: **Botany, Paper –VI (II Sem.)**

Paper Name: **Histology, Anatomy and Embryology (Practical)**

Chap. No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1.	Meristem: root apex and shoot apex	Demonstration	03	6,7,13 May	
2.	Permanent tissues – simple, complex and secretory	Demonstration	03	20,21,27 May	
3.	Epidermal tissues: Trichomes and stomata	Demonstration	03	28,3,4 May/June	
4.	Anatomy of young dicot (Sunflower) and monocot (Maize) root. (Double stained permanent slide preparation)	Demonstration	03	10,11,17 June	
5.	Anatomy of young dicot (Sunflower) and monocot (Maize) stem. (Double stained permanent slide preparation)	Demonstration	03	18,24,25 June	
6.	Anatomy of dicot (Sunflower) and monocot (Maize) leaf. (Double stained permanent slide preparation)	Demonstration	03	1,2,8 July	
7.	Study of T.S. of anther	Demonstration	03	9,15,16, July	
8.	Structure of ovule (anatropous), types of ovules	Demonstration	03	22,23,29 July	
9.	Study of Dicot and Monocot seed (embryo)	Demonstration	03	30,5,6 July/ Aug.	


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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year (2020-2021)

Class: B.A. / B.Sc. / M.A. / M.Sc. / Management Science

Name of Faculty: Dr. M. G. Ambuse

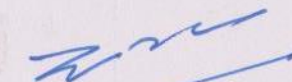
Department of Botany

Paper No.: Botany, Paper –VI (II Sem.)

Paper Name: Diversity of Cryptogams (Practical)

Chap. No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1.	(a) Bryophytes :	Demonstration	02	1,8 April	
2.	i) <i>Marchantia</i>	Demonstration	02	9,15 April	
3.	ii) <i>Funaria</i>	Demonstration	02	16,22 April	
4.	b) Pteridophytes	Demonstration	03	23,29,30 April	
5.	i) <i>Psilotum</i>	Demonstration	03	6,7,13 May	
6.	ii) <i>Lycopodium</i>	Demonstration	03	20,21,27 May	
7.	iii) <i>Selaginella</i>	Demonstration	03	28,3,4 May/June	
8.	iv) <i>Equisetum</i>	Demonstration	03	10,11,17 June	
9.	v) <i>Marsilea</i>	Demonstration	03	18,24,25 June	


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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year (2020-2021)

Class: B.A. / B.Sc. / M.A. / M.Sc. / Management Science

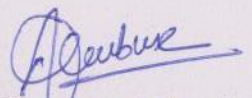
Department of Botany

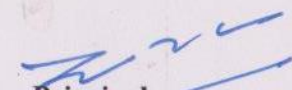
Name of Faculty: Dr. M. G. Ambuse

Paper No.: Botany, Paper –XVII (V Sem.)

Paper Name: Cell Biology and Molecular Biology

Chap. No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1.	1. Cell: Structure of Prokaryotic cell (Bacterial cell) and Eukaryotic cell (plant cell) 2. Cell wall and cell organelles: Structure and functions of cell wall and Cell organelles – Golgi complex, Endoplasmic reticulum, lysosomes 3. Nucleus: Ultra structure, (nuclear membrane, nucleolus, chromatin material, nucleoplasm), Functions of nucleus.	Lecture	15	2,3,4,9,10,11,17,18, 23,24,25,1,2,7,8,9,14 Nov/December	
2.	1. Cell division: a) Cell cycle -G1 phase, S phase, G2 phase and M phase b) Mitosis – definition, process and significance. c) Meiosis-definition, process and significance. 2. Nucleic acids: a. DNA: Definition, structure, chemical composition (nitrogenous bases, purines, pyrimidines, nucleosides, nucleotides, phosphate and sugars) Watson and Crick's model, Z - DNA, B - DNA, functions of DNA b. Replications of DNA – conservative, semi conservative and dispersive. c. RNA: Structure, types and functions	Lecture	15	15,16,21,22,23,28, 29,30,4,5,6,11,12, 13,18 December/ January	
3.	1. Chromosome: Definition, morphology-size, shape, number, Ultra structure – chromatid, chromonema, chromomere, centromere, kinetochore, secondary constriction, satellite, telomere, heterochromatin, euchromatin, Nucleosome model (Woodlock 1973), chemical composition, Functions of chromosome, Giant chromosomes-polytene and lampbrush chromosome. 2) Chromosomal aberrations : a) Structural-deletion, duplication, inversion and translocation b) Numerical: – euploidy and aneuploidy	Lecture	15	19,20,25,27,1,2,3, 8, 9, 10, 15,16,17, 22,23,1,2,3 Jan/Feb/March	


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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year (2020-2021)

Class: B.A. / B.Sc. / M.A. / M.Sc. / Management Science

Department of Botany

Paper No.: Botany, Paper –XIX (V Sem.)

Name of Faculty: Dr. M. G. AMBUSE

Paper Name: Cell Biology and Molecular Biology (Practical)

Chap. No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1.	Study of the cell structure from onion leaf or <i>Tradescantia</i> leaf	Demonstration	03	3,4,7 Nov.	
2.	Preparation of cytological (AA, FAA etc.) fixatives and stains (Acetocarmine, aceto-orcein).	Demonstration	03	10,11,17 Nov.	
3.	Study of electron micrographs of viruses, bacteria and cyanobacteria	Demonstration	03	18,21, 24 Nov.	
4.	Study of electron micrographs of eukaryotic cell and different cell organelles	Demonstration	06	25,28,1,2,5,8,9,12, Nov/Dec	
5.	Preparation of slides for the study of mitosis (root tips of onion)	Demonstration	06	15,16, 19,22,23,26, 30,31Dec.	
6.	Preparation of slides for the study of meiosis (<i>Rhoeo</i> , <i>Aloe</i> or onion flower buds)	Demonstration	06	2,5,6,9,12,13,16Jan.	
7.	Preparation of idiogram from the given micrograph of karyotype	Demonstration	06	19,20, 23,27,30,2, 3,6 Jan/Feb.	
8.	Observation of giant chromosomes in <i>Chironomous</i> larvae	Demonstration	06	9,10,13,16,17,20 Feb.	
9.	Preparation of wool models of mitosis, meiosis, cell structure, Chromosome, DNA and RNA.	Demonstration	06	23,24,27,2,3,6 Feb/March	

Signature of Faculty

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Tq. Omurga Dist. Osmanabad



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year (2020-2021)

Class: B.A. / B.Sc. / M.A. / M.Sc. / Management Science

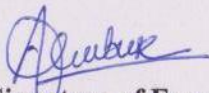
Department of Botany

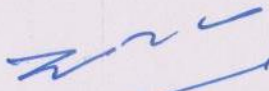
Name of Faculty: Dr. M. G. Ambuse

Paper No.: Botany, Paper –XXI (VI Sem.)

Paper Name: Genetics and Biotechnology

Chap. No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1.	Mendelism: i.Introduction -G.J. Mendel ii. Mendelian principles –Law of Dominance, law of segregation, law of independent assortment, back cross and test cross 2. Interaction of genes: i.Allelic interaction: incomplete dominance, co dominance, lethal genes and blood group inheritance ii. Non allelic and non epistatic -comb shapes in fowls iii. Non allelic and epistatic: a) Complementary genes or duplicate recessive epistasis (9:7) b) Supplementary genes or recessive epistasis (9:3:4) c) Dominant epistatic genes or dominant epistasis (12:3:1) d) Duplicate genes or duplicate dominant epistasis (15:1) 3. Sex determination: i. Chromosomal theory of sex determination ii. Mechanism of sex determination in man (xx -xy), Drosophila (xx and xy), birds (zz-zw), grasshopper (xx-xo) and genic balance theory in Drosophila iii. Sex determination in plants – <i>Melandrium</i>	Lecture	15	5,6,7,12,19,20,26, 27,28,3,4,5,10,11,12 April/May	
2.	Sex linked inheritance: X, XY and Y linked inheritance: i) Colourblindness and hemophilia in man ii) Holandric genes iii) White eye colour in Drosophila, iv) Gynandromorphs, 2. Structure and function of gene: i. Fine structure of gene (Seymour Benzer) ii. One gene one enzyme hypothesis iii. Genes and related diseases – phenylketonuria, and alkaptonuria iv. Detection of genetic diseases –amniocentesis Genetic counselling	Lecture	15	17,18,19,24,25,31,1, 2,7,8,9,14,15,16,21,22,23, May/June	
3.	Biotechnology: 1. Concept of genetic engineering and recombinant DNA technology 2. Restriction endonucleases, their properties and uses 3. Cloning vectors -plasmids and phage vectors 4. Techniques of genetic engineering -isolation of desired gene, gene cloning, transfer of gene into plants 5. Applications of genetic engineering	Lecture	15	28,29,5,6,7,12,13,14,19, 20,26,27,28,2,3,4 June/July/Aug.	


Signature of Faculty


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Shrikrishna Mahavidyalaya, Gunjoti
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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year (2020-2021)

Class: B.A. / B.Sc. / M.A. / M.Sc. / Management Science

Department of Botany

Paper No.: Botany, Paper –XXIII (VI Sem.)

Name of Faculty: Dr. M. G. Ambuse

Paper Name: (Practical) Genetics and Biotechnology

Chap. No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1.	Quiz	Demonstration	03	3,6,7 April	
2.	Working out laws of inheritance by using seed mixtures	Demonstration	06	10,17,20,24,27,28 April	
3.	Problems based on gene interaction	Demonstration	18	4,5,8,11,12,15,18,19,22, 25,29,1,2,5,8,9,19,22 May/June	
4.	Problems based on sex linked inheritance	Demonstration	18	23,26,29,30,3,6,7,10,13,14, 17,24,27,28,31,3,4,7 June/ July/Aug	

Signature of Faculty

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Shrikrishna Mahavidyalaya, Gunjoti
Tq. Omerga Dist. Osmanabad

SHRIKIRSHNA MAHAVIDYALAYA, GUNJOTI

Teaching days Calendar for 180 days

Department : **PHYSICS**

Academic year **2020-2021**

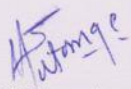
Name of the Faculty Member : **Dr.S.M.Patange**


Term	Month	Working Days	Theory Periods			Practical Periods	Total Periods
			I	II	III		
First Term	Aug	20	--	10	10	--	20
	Sep	25	--	11	14	--	25
	Oct	24	--	14	10	--	24
	Nov	22	11	11	11	--	33
	Dec	26	14	12	14	--	40
	Jan	24	11	13	11	--	35
	Feb	23	12	12	11	33	68
	March	06	03	03	03	09	18
	Total I	170	51	86	84	42	263
Second Terms	First Term Examination 06 November to 01 December 2017						
	April	20	09	09	11	33	62
	May	23	12	12	11	33	68
	June	26	14	14	12	36	76
	July	26	11	11	15	45	82
	Aug	06	03	03	03	15	24
	Total II	101	49	49	52	162	312
	Total I+II	271	100	135	136	204	575

Total Teaching days **271**

Total Theory Periods **371**

Total Practical Periods **204**


Signature of Faculty Member.


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Tq. Omerga Dist. Osmanabad



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year (2020-2021)

SKMG / 1000 / 2014-15

Department of Physics

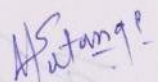
Paper No.: Phy-101, Paper –I (I Sem.)

Class: B.A. / B.Sc. I / M.A. / M.Sc. / Management Science

Name of Faculty Member: Dr. S.M.Patange

Paper Name: Mechanics, Properties of Matter & Sound

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	Mechanics : Compound Pendulum- expression of time period, Interchangeability of centre of suspension and oscillation, Kater's Pendulum. Newton's law of Gravitation (Statement only), Gravitational Field , Gravitational Potential, Gravitational Potential of mass, Gravitational potential and field due to spherical shell and solid sphere (at a point, outside, inside and on the surface).	Online	13	2Nov to 2 Dec. 2020	
2.	Elasticity Introduction , Moduli of Elasticity (Elastic constants), Twisting couple on a cylinder, Bending of Beam – Bending moment, cantilever loaded at free end – (a) When weight of beam is ineffective, (b) When weight of beam is effective, Depression of Beam loaded at centre	Online	10	7 to 30 Dec 2020	


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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year (2020-2021)



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Department of Physics

Paper No.: Phy-101, Paper –I (I Sem.)

Class: B.A. / B.Sc. I/ M.A. / M.Sc. / Management Science

Name of Faculty Member: Dr. S.M.Patange

Paper Name: Mechanics, Properties of Matter & Sound

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
3.	Viscosity and Surface Tension: Viscosity - Introduction, energy of liquid in motion, Bernoulli's Theorem, practical applications: (i) Law of hydrostatic pressure (ii) Filter pump, Poiseuille's formula. Surface Tension- Introduction, Difference of pressure across a curved surface, Determination of S.T. by Jaeger's method	Online	12	4 to 27 Jan 2021	
4.	Ultrasonic and Acoustics : Ultrasonic- Piezo – electric effect, Piezo – electric Generator, Magnetostriction effect, Magnetostriction oscillator, Applications of ultrasonic- Depth of sea, Chemical effects, Medical applications. Acoustics- Reverberation, Acoustical demands of an auditorium, Sabine's Law – Derivation of Reverberation time, conditions of good acoustical designs of room..	Lecture	10	1 to 24 Feb 2021	

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Class: B.A. / B.Sc. I/ M.A. / M.Sc. / Management Science

Department of **Physics**

Name of Faculty Member: **Dr. S.M.Patange**

Paper No.: **IV Phy-104 (II Sem.)**

Paper Name: **Geometrical and Physical Optics**

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	Geometrical Optics and Optical Instruments: Cardinal points of optical system – Focal points, Principal points, Nodal points and corresponding planes, coaxial lens system - equivalent focal length and cardinal points. Huygens's Eyepiece, Ramsden's eyepiece and their cardinal points,.	Lecture	12	5 April to 5 May 2021	
2.	Interference : Interference in thin film due to reflected and transmitted light, wedge shaped thin film, Newton's rings by reflected light, determination of wavelength, Michelson's Interferometer, type of fringes, determination of wavelength and difference in wavelength.	Lecture	10	10 May 2 June 2021	

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Teaching –Plan Academic Year (2020-2021)

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Department of Physics

Paper No.: IV Phy-104 (II Sem.)

Class: B.A. / B.Sc.I / M.A. / M.Sc. / Management Science

Name of Faculty Member: Dr. S.M.Patange

Paper Name: Geometrical and Physical Optics

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
3.	Diffraction : Introduction, Diffraction at a thin wire , Fraunhofer diffraction at double slit (Interference and diffraction maxima, minima), Plane Transmission diffraction grating, Determination of wavelength (Normal incidence), Resolving power of optical instruments (Rayleigh's criterion), R. P. of prism and grating.	Lecture	13	7 to 30 June 2021	
4.	Polarization: Introduction, Malus law, Double refraction, Huygens's theory of double refraction in uniaxial crystal, Nicol prism. Optical activity, Fresnel's theory of optical rotation, specific Rotation, Laurentz's half - shade polarimeter, Determination of specific rotation of sugar solution.	Lecture	10	5 to 27 July 2021	

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Teaching –Plan Academic Year (2020-2021)

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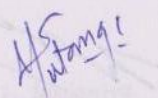
Paper No.: **Phy-201, Paper –VII (III Sem.)**

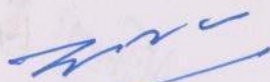
Class: B.A. / **B.Sc.II** / M.A. / M.Sc. / Management Science

Name of Faculty Member: **Dr. S.M.Patange**

Paper Name: **Mathematical, Statistical Physics & Relativity**

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	Differentiation and ordinary differential equation : Limit of function, partial differentiation, successive differentiation, total differentiation, exact differentiation, chain rule. Ordinary differential equation, order and degree of differential eq., Solution of first order differential equations, solution of second order linear differential equations with constant coefficient.(1) Homogeneous (2) Inhomogeneous, special case of exponential right hand to find PI.	Online	15	Nov 2020	
2.	Statistical basis and classical statistics: Introduction, probability, principle of equal a priori probability and frequency, some basis rules of probability theory, permutation and combination, macrostate and microstate, phase space, Thermo-dynamical probability, division of compartment into cell, Maxwell-Boltzmann's distribution law, evaluation of constants $e^{-\alpha}$ and β , M.B. distribution function for ideal gas, M.B. speed distribution law.	Online	12	Dec 2020	


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Paper No.: **Phy-301, Paper –VII (III Sem.)**

Class: B.A. / **B.Sc.II** / M.A. / M.Sc. / Management Science

Name of Faculty Member: **Dr. S.M.Patange**

Paper Name **Mathematical , Statistical Physics& Relativity**

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
3.	Quantum Statics : Need of quantum statistics, Bose-Einstein distribution law, Planck radiation law, Fermi-Dirac distribution law, electron gas, Fermi level and Fermi energy, Fermi energy for electron in a metal, Comparison of three statics, difference between classical and quantum statistics.	Lecture	10	Jan 2021	
4.	Theory of relativity : Introduction, frame of reference, Galilen transformation equations, Michelson Morley experiment Special theory of relativity, Lorentz transformation equation, length contraction, time dilation, addition of velocities, variation of mass energy equivalence.	Lecture	08	Feb 2021	

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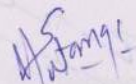
Paper No.: **Phy-205, Paper –XI (IV Sem.)**

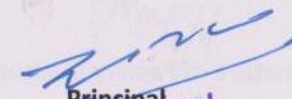
Class: B.A. / **B.Sc.II** / M.A. / M.Sc. / Management Science

Name of Faculty Member: **Dr. S.M.Patange**

Paper Name: **General Electronic**

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	Semiconductor : Introduction, construction, working and characteristic of semiconductor diode, Zener diode, Zener diode characteristics, Transistor (PNP and NPN), transistors characteristics (CC, CB and CC), construction, working and characteristics of FET and MOSFET.	Lecture	08	5 to 28 April 2021	
2.	Transistor Biasing and Amplifier : Transistor basing, selection of operating point, bias stability, transistor biasing circuits- fixed bias or base bias, collector feedback bias, emitter feedback bias or self bias, single stage transistor amplifier, frequency response of RC coupled amplifier, Noise in amplifier, feedback in amplifier, Op- amp characteristics, inverting & non inverting amplifier, Op-amp as an adder and subtractor.	Lecture	15	3 May to 7 June 2021	


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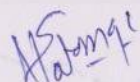
Paper No.: **Phy-401, Paper –XI (IV Sem.)**

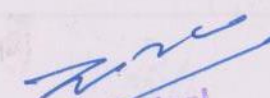
Class: B.A. / **B.Sc.II** / M.A. / M.Sc. / Management Science

Name of Faculty Member: **Dr. S.M.Patange**

Paper Name: **General Electronic**

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
3.	Oscillators and Multivibrators : Two port network representation of transistor, Hybrid parameters of h- parameter, positive feedback, Basic principle of oscillators, requirements of feedback, RC oscillator (Phase shift oscillator), LC oscillator (Hartley oscillator) Transistorised, astable multivibrator, monostable multivibrator, bistable multivibrator.	Lecture	15	8 June to 5 July 2021	
4.	Modulation and demodulation : Modulation, amplitude modulation, modulation index, frequency modulation, phase modulation, demodulation, advantages of frequency modulation over amplitude modulation.	Lecture	07	6 to 28 July 2021	


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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year (2020-2021)

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Department of Physics

Paper No.: Phy-203 & 204, Paper –IX & X (III Sem.)

Class: B.A. / B.Sc.II / M.A. / M.Sc. / Management Science

Name of Faculty Member: Dr. S.M.Patange

Paper Name: Practical (Fri & Sat)

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	h by photo cell	Demonstration	09	20,26,27 Feb 2021	
2.	e / m by Thomson tube	Demonstration	06	5,6 March 2021	
3.	Determination of BH and BV by earth's Inductor	Demonstration	06	9,10 April 2021	
4.	Measurement of low resistance using Potentiometer.	Demonstration	06	16,17 April 2021	
5.	Determination of A.C. mains using Sonometer.	Demonstration	06	23,24 April 2021	
6.	To study specific rotation by Laurent half shade Polarimeter	Demonstration	06	30 April , 7 May 2021	
7.	Cauchy's constant by using spectrometer.	Demonstration	06	8,14 May 2021	
8.	Comparison of capacities by Desauty method	Demonstration	06	15,21 May 2021	
9	Velocity of sound using Helmholtz resonator	Demonstration	06	22,28 May 2021	
10.	R.P. Telescope	Demonstration	06	29 May 4 June 2021	
11.	Wave length by Newton's ring	Demonstration	06	5,11 June 2021	
12.	Thermal conductivity of rubber tube.	Demonstration	06	12,18 June 2021	
13	Study of temperature dependence of total radiation	Demonstration	06	19 June 2021	

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Teaching –Plan Academic Year (2020-2021)

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Department of Physics

Paper No.: **Phy-207 & 208, Paper –XIII & XIV (IV Sem.)**

Class: B.A. / **B.Sc.II** / M.A. / M.Sc. / Management Science

Name of Faculty Member: **Dr. S.M.Patange**

Paper Name: **Practical (Fri & Sat)**

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	Energy band gap of semiconductor using thermister.	Demonstration	09	25,26 June 2021	
2.	I-V Characteristics of solar cell.	Demonstration	06	2,3 July 2021	
3.	Calibration of bridge wire using carry foster bridge.	Demonstration	09	9,10 July 2021	
4.	Determination of absolute capacity of condenser using B.G.	Demonstration	09	16,17 July 2021	
5.	Full wave rectifier with μ filter	Demonstration	06	23,24 July 2021	
6.	Viscosity of liquid using Searle's Viscometer	Demonstration	09	30,31 July 2021	
7.	Viscosity of liquid by Oscillating disc method	Demonstration	09	6,7 Aug 2021	
8.	Transistor characteristics in CE configuration.	Demonstration	06		
9.	Transistor characteristics in CB configuration	Demonstration	06		
10.	Study of CE amplifier	Demonstration	06		
11.	Hartley Oscillator using transistor.	Demonstration	06		
12.	Wien bridge oscillator using transistor.	Demonstration	06		
13	JFET characteristics (rp, gm and μ)	Demonstration	06		

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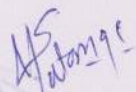
Department of **Physics**

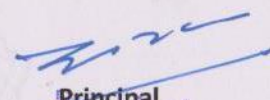
Name of Faculty Member: **Dr. S.M.Patange**

Paper No.: **Phy-501, Paper –XV (V Sem.)**

Paper Name: **Classical and Quantum Mechanics**

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	Classical Mechanics: Mechanics of Particle, Mechanics of system of particles Constraints, Classification of Constraints, Virtual Work, D'Alembert's principle, Lagrange's equation, Simple application of Lagrangian formulation –Simple Pendulum, Particle in space, Linear Harmonic Oscillator, Atwood's Machine	online	11	4 to 31 Aug 2020	
2.	Origin of Quantum Theory: Introduction, Failure of Classical mechanics, Black body Radiation (Distribution of Energy), Plank's Quantum theory- Plank's Quantum postulates, linear momentum of photon in terms of wave vector, Plank's radiation law-Wein's law and Rayleigh's law, Einstein's equation: Quantum theory of photoelectric effect, Quantum effect.	online	12	1 to 30 Sept. 2020	


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Teaching –Plan Academic Year (2020-2021)

SKMG / 1000 / 2014-15

Department of Physics


Paper No.: **Phy-501, Paper –XV (V Sem.)**

Class: B.A. / **B.Sc.III** / M.A. / M.Sc. / Management Science

Name of Faculty Member: **Dr. S.M.Patange**

Paper Name: **Classical and Quantum Mechanics**

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
3.	Wave Particle duality: Introduction, de-Broglie's hypothesis for matter waves, de-Broglie's wavelength in terms of energy and temperature, de-Broglie phase velocity and particle velocity (relation between them), Group velocity, Relation between group velocity and phase velocity, Davisson-Germer Experiment, Heisenberg uncertainty principle, Applications of Heisenberg uncertainty principle (1) Nonexistence of electrons in nucleus (2) Binding energy of an electron in an atom.	online	12	5 Oct. to 25 Nov 2020	
4.	Schrodinger Equation and its Application: Wave Function (Ψ) of a moving particle, Time dependent Schrodinger's wave equation, Expectation value, Operators, Time independent Schrodinger equation (steady state form), particle in one dimensional box, Quantization of energy and momentum.	Lecture	10	1 to 30 Dec 2020	


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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year (2020-2021)

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Department of **Physics**

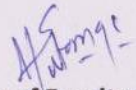
Paper No.: **Phy-601, Paper –XIX (VI Sem.)**

Class: B.A. / **B.Sc.III** / M.A. / M.Sc. / Management Science

Name of Faculty Member: **Dr. S.M.Patange**

Paper Name: **Atomic, Molecular Physics and Laser.**

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	Atomic Model: Introduction, Thomson atom model, the Rutherford nuclear atom model, drawbacks of Rutherford atomic model, the Bohr's atom model, Bohr's theory of origin of spectral lines, diagrammatic representation of the series spectrum of the H-atom in the light of Bohr's theory.	Lecture	10	8 to 29 April 2021	
2.	Vector Atom Model: Introduction-vector atom model, Quantum numbers associated with the vector atom model, L-S coupling, j-j coupling, The Pauli's exclusion principle, Selection rules, Intensity Rules, Interval Rule, Normal Zeeman effect, Anomalous Zeeman effect, Stark effect and its experimental study.	Lecture	10	30 April to 27 May 2021	


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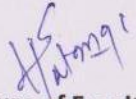
Paper No.: **Phy-601, Paper –XIX (VI Sem.)**

Class: B.A. / **B.Sc.III** / M.A. / M.Sc. / Management Science

Name of Faculty Member: **Dr. S.M.Patange**

Paper Name: **Atomic, Molecular Physics and Laser.**

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
3.	Molecular spectra: Introduction, origin of pure rotational spectrum of a molecule, origin of vibration-rotation spectrum of a molecule, Rayleigh's law of scattering, Raman effect-Discovery, experimental study, Applications of Raman effect molecular structure, Nature of liquids, Crystal Physics, Nuclear Physics, Chemical effects.	Lecture	15	28 May to 1 July 2021	
4.	LASER: Introduction, induced absorption, spontaneous emission, stimulated emission, population inversion, properties of laser beam, laser pumping, Types of laser-Ruby laser, He-Ne laser, carbon dioxide (CO ₂) laser, Applications of laser-Biological, medical and industrial.	Lecture	10	2 to 30 July 2021	


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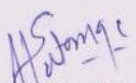
Paper No.: **Phy-203 & 207, Paper –IX & XIII (III & IV Sem.)**

Class: B.A. / **B.Sc.II** / M.A. / M.Sc. / Management Science

Name of Faculty Member: **Dr. S.M.Patange**

Paper Name: **Practical (Thu)**

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	h by photo cell	Demonstration	06	18 ,25 Feb 2021	
2.	e / m by Thomson tube	Demonstration	06	4 ,8 April 2021	
3.	Determination of BH and BV by earth's Inductor	Demonstration	06	15,22 April 2021	
4.	Measurement of low resistance using Potentiometer.	Demonstration	06	29 April , 6 May 2021	
5.	Determination of A.C. mains using Sonometer.	Demonstration	06	20,27 May 2021	
6.	To study specific rotation by Laurent half shade Polarimeter	Demonstration	06	3,10 June 2021	
7.	Cauchy's constant by using spectrometer.	Demonstration	06	17,24 June 2021	
8	Energy band gap of semiconductor using thermister.	Demonstration	06	1,8 July 2021	
9	I-V Characteristics of solar cell.	Demonstration	06	15,22 July 2021	
10	Calibration of bridge wire using carry foster bridge.	Demonstration	06	29 July ,5 Aug 2021	
11	Determination of absolute capacity of condenser using B.G.	Demonstration	06	12 Aug 2021	
12	Full wave rectifier with μ filter	Demonstration	06		
13	Viscosity of liquid using Searle's Viscometer	Demonstration	06		
14	Viscosity of liquid by Oscillating disc method	Demonstration	06		


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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Faculty of Arts / Science / Management Science

Academic Year: (2020-21)

(Department of Physics)

Name of Faculty Member: Dr. R. H. Kadam

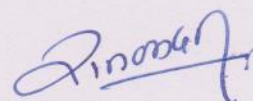
Lockdown

Month	Teaching days	Theory Periods	Practical Periods	Total Periods
August	12	12	---	12
September	12	12	---	12
October	14	14	---	14
Total	38	38	---	38

Academic Calendar for 180 Days

Term	Month	Teaching days	Theory Periods	Practical Periods	Total Periods
First Term	November	19	28	30	58
	December	26	41	42	83
	January	24	37	42	79
	February	23	34	33	67
	March	06	09	09	18
Total 1		98	149	156	305
Second Term	April	20	31	33	64
	May	23	33	36	69
	June	26	38	36	74
	July	26	41	39	80
	August	06	09	09	18
Total 2		101	152	153	305
Total 1 + 2		199	301	309	610

Total Teaching Days = 199
Total Teaching days (Lockdown) = 38
Total Theory Periods = 301
Total Theory Periods (Lockdown) = 38
Total Practical Periods = 309



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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Tq. Omerga, Dist. Osmanabad

Teaching Days Calendar 2020-21

Sr. No.	Months	Teaching Days	Total Days	Sunday	Holiday
First Term – 01.11.2020 to 26.03.2021					
1	Nov	2, 3, 4, 5, 6, 7, 9, 10, 11, 18, 19, 20, 21, 23, 24, 25, 26, 27, 28	19	1, 8, 15, 22, 29	12, 13, 14, 16, 17, 30
2	Dec	1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 12, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 26, 28, 29, 30, 31	26	6, 13, 20, 27	25
3	Jan	1, 2, 4, 5, 6, 7, 8, 9, 11, 12, 13, 15, 16, 18, 19, 20, 21, 22, 23, 25, 27, 28, 29, 30,	24	3, 10, 17, 24, 31	14, 26
4	Feb	1, 2, 3, 4, 5, 6, 8, 9, 10, 11, 12, 13, 15, 16, 17, 18, 20, 22, 23, 24, 25, 26, 27, 29, 30, 31	23	7, 14, 21, 28	19
5	March	1, 2, 3, 4, 5, 6	06	---	---
Total			98		
First term - Total working days: 98 Total teaching days: 98 Total Exam days:16					
Term end exam 08.03.2021 to 26.03.2021					
Second Term – 05.04.2021 to 21.08.2021					
5	April	5, 6, 7, 8, 9, 10, 12, 15, 16, 17, 19, 20, 22, 23, 24, 26, 27, 28, 29, 30, 31	20	11, 18, 25	13, 14, 21
6	May	3, 4, 5, 6, 7, 8, 10, 11, 12, 14, 15, 17, 18, 19, 20, 21, 22, 24, 25, 27, 28, 29, 31	23	2, 9, 16, 23, 30	1, 13, 26
7	June	1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 12, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 25, 26, 28, 29, 30, 31	26	6, 13, 20, 27	---
8	July	1, 2, 3, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16, 17, 19, 20, 22, 23, 24, 26, 27, 28, 29, 30, 31	26	4, 11, 18, 25	21
9	August	2, 3, 4, 5, 6, 7	06	1	
Total			101		
Second term - Total working days:101 Total teaching days: 101 Total exam days:10					
Summer Vacation to					
Total Working Days		= 229			
Total Teaching Days		= 199	34 weeks for Teaching		
Examination Days		= 26 weeks for admission, Exam		
Curricular and Extracurricular activities		= weeks for Vacation		
Winter vacation days		= weeks for Holidays.		
Summer Vacation Days		=			



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year (Lockdown)

SKMG / 1000 / 2019-20

Department of Physics

Paper No.: **Phy-302, Paper –XVI (V Sem.)**

Class: B.A. / B.Sc. / M.A. / M.Sc.

Name of Faculty Member: **Dr. R. H. Kadam**

Paper Name: **Electrodynamics**

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	Electrostatics: Introduction, Electric Field Lines, electric flux and Gauss law, the divergence of E, Curl of E, Applications of Gauss law, i) Electric field due to a uniformed charged sphere, ii) Electric field due to charged cylinder, Gaussian Pillbox, Poisson's equation, Laplace Equation, Uniqueness theorem (First and Second)	Lecture	12	06.08.2020 to 29.08.2020	
2.	Time Varying Field: Faraday's Law of electromagnetic induction, Lenz's law, Self-induction, Mutual induction, equation of continuity, Maxwell's displacement current, Maxwell's equation (Derivation, Differential form)	Lecture	10	03.09.2020 to 26.09.2020	
3.	Electromagnetic waves: Origin of electromagnetic waves, characteristics of electromagnetic wave, electromagnetic wave equations in a conducting medium, transverse nature of electromagnetic wave, plane polarized electromagnetic wave,	Lecture	10	01.10.2020 to 31.10.2020	

Signature of Faculty Member

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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year (2020-21)

SKMG / 1000 / 2020-21

Class: B.A. / B.Sc. / M.A. / M.Sc. / Management Science

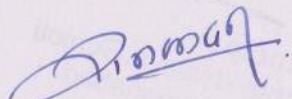
Department of Physics

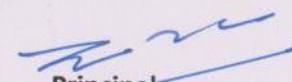
Name of Faculty Member: Dr. R. H. Kadam

Paper No.: Phy-102, Paper –II (I Sem.)

Paper Name: Heat and Thermodynamics

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	Thermal Conductivity: Transference of heat, Coefficient of thermal conductivity, Rectilinear flow of heat along a metal bar, Methods of radial flow of heat-(i)spherical shell method and (ii)Flow of heat along the wall of a cylindrical tube, comparison of conductivities of different metals.	Lecture	10	02.11.2020 to 08.12.2020	
2.	Real Gas and Transport Phenomena: Real Gas: Introduction, Reason for modification of gas equation, Van der Waals equation of state , comparison with experimental curves, critical constants, constants of Van der Waals equation. Transport Phenomena: Introduction, Mean free path, sphere of influence, and expression for mean free path, variation of mean free path with temperature and pressure, transport phenomena, viscosity, Thermal conductivity (their interrelationship, dependence on temperature and pressure).	Lecture	12	09.12.2020 to 05.01.2021	
3.	Thermodynamics: Adiabatic process, Adiabatic equation of a perfect gas, Isothermal process, Indicator diagram, work done during isothermal process and adiabatic process, reversible and irreversible process, Second law of thermodynamics. (Kelvin and Clausius statement), Heat engines, Carnot's ideal heat engine, Carnot's cycle (work done and Efficiency).	Lecture	12	06.01.2021 to 06.02.2021	
4.	Entropy and Thermodynamic Relations: General notation of entropy, change of entropy is independent of path, change of entropy in reversible and irreversible process, Formulation of second law in terms of entropy, Maxwell's thermodynamical relations, Applications of Maxwell's relations –i) Clausius – Clapeyron equation , ii) T-ds equations.	Lecture	11	07.01.2021 to 06.03.2021	


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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year (2020-21)

SKMG / 1000 / 2020-21

Class: B.A. / B.Sc. / M.A. / M.Sc. / Management Science

Department of Physics

Name of Faculty Member: Dr. R. H. Kadam

Paper No.: Phy-202, Paper –VIII (III Sem.)

Paper Name: Modern and Nuclear Physics

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	Photoelectric Effect: Introduction, method to determine e/m for photoelectrons, Richardson and Compton experiment, Relation between photoelectric current and retarding potential, Relation between velocity of photoelectrons and frequency of light, photoelectric cells-(1) Photo emissive cell, (2) Photo voltaic cell, (3) Photoconductive cell, Applications of photoelectric cells	Lecture	15	02.11.2020 to 21.12.2020	
2.	X-rays: Introduction, The absorption of X-rays, Lau's experiment, Bragg's law, The Bragg's X-ray spectrometer, powder crystal method, The Lau method, X-ray spectra, Main features of continuous X-ray spectrum, Characteristic X-ray spectrum	Lecture	12	22.12.2020 to 27.01.2021	
3.	Nuclear forces and models: Introduction, Binding energy, nuclear stability, nuclear forces, meson theory of nuclear forces, liquid drop model, shell model, energy released in Fission, Chain reaction, atom bomb, Nuclear reactors, nuclear fusion, Source of stellar energy	Lecture	10	29.01.2021 to 23.02.2021	
4.	Particle accelerators and detectors: Linear accelerator, Cyclotron, synchrocyclotron, Betatron, Ionization chamber, proportional counter, Geiger – Muller counter	Lecture	08	24.02.2021 to 06.03.2021	

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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year (2020-21)

SKMG / 1000 / 2020-21

Department of **Physics**

Paper No.: **Phy-302, Paper –XVI (V Sem.)**

Class: B.A. / B.Sc. / M.A. / M.Sc.

Name of Faculty Member: **Dr. R. H. Kadam**

Paper Name: **Electrodynamics**

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	Electromagnetic waves: The Poynting Vector, Poynting Theorem, Polarization of Electromagnetic Waves.	Lecture	05	02.11.2020 to 28.11.2020	
4.	Interaction of electromagnetic waves with matter: Boundary condition for the electromagnetic field vector, B, E, D, and H at the interface between the two media, reflection and refraction at the boundary of two non – conducting media.	Lecture	08	01.12.2020 to 31.12.2020	

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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year (2020-21)

SKMG / 1000 / 2020-21

Class: B.A. / B.Sc. / M.A. / M.Sc. / Management Science

Department of Physics

Name of Faculty Member: Dr. R. H. Kadam

Paper No.: Phy-105, Paper –V (II Sem.)

Paper Name: Electricity and Magnetism

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	Vector Algebra: Dot and cross product (Revision), scalar triple product and it's geometrical interpretation, vector triple product, gradient of a scalar and it's physical interpretation, Divergence and curl of vector function and their physical interpretation, line, surface and volume integrals, Gauss's divergence theorem and Stoke's theorem	Lecture	12	05.04.2021 to 12.05.2021	
2.	Electrostatics: Coulomb's Law , Electric field , field due to point charge, flux of electric field, Gauss's law (with proof) , Differential form of Gauss law , electric potential , potential due to a point charge, Potential and field due to electric dipole. Dielectrics, polarization of dielectric, Gauss's law in dielectrics, Relation between D, E and P.	Lecture	13	14.05.2021 to 14.06.2021	
3.	Magnetostatics: Magnetic field , Magnetic induction , magnetic flux , Biot-Savart law, Magnetic induction due to straight conductor carrying current , magnetic induction on the axis of solenoid ,Ampere's Law, Differential form Ampere's Law, Moving coil ballistic Galvanometer - expression for charge.	Lecture	12	15.06.2021 to 10.07.2021	
4.	Transient Currents: Growth and decay of current in a circuit containing L and R , charge and discharge of a capacitor through resistor, Growth and decay of charge in LCR circuit.	Lecture	08	11.07.2021 to 03.08.2021	

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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year (2020-21)

SKMG / 1000 / 2020-21

Department of Physics

Paper No.: Phy-206, Paper –XII (IV Sem.)

Class: B.A. / B.Sc. / M.A. / M.Sc. / Management Science

Name of Faculty Member: Dr. R. H. Kadam

Paper Name: Solid State Physics

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	Crystal Structure: Introduction, crystal lattice, space lattice, translation vectors, unit cell (primitive, non primitive, Wigner – Sietz primitive cell), basis, symmetry operations, point groups and space groups, type of lattices (two dimensional and three dimensional)	Lecture	12	05.04.2021 to 08.05.2021	
2.	Bonding and Band theory of solids: Introduction, concept of inter-atomic forces, cohesive energy and types of bonding, primary bonds –(ionic bonds, covalent bonds and metallic bonds) secondary bonds, (vanderwalls bond, hydrogen bond) The Kroning – Penney model, Energy versus wave vector relationship, different representations.	Lecture	12	10.05.2021 to 11.06.2021	
3.	Thermal Properties of solids: Classical theory of lattice heat capacity (Concept and comparison with external values), Einstein's theory of lattice heat capacity, Debye's Model of lattice heat capacity, density of modes, limitations of Debye's model.	Lecture	10	12.06.2021 to 17.07.2021	
4.	Free electron theory of metals and Transport properties: Drude –Lorentz classical theory, electrical conductivity, thermal conductivity, Wiedemann Fenz law, significance of Fermi energy level, Hall effect, Hall voltage and Hall coefficient, experimental determination of Hall coefficient, Importance of Hall effect.	Lecture	11	19.07.2021 to 05.08.2021	

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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year (2020-21)

SKMG / 1000 / 2020-21

Class: B.A. / B.Sc. / M.A. / M.Sc.

Department of Physics

Name of Faculty Member: Dr. R. H. Kadam

Paper No.: Phy-306, Paper –XX (VI Sem.)

Paper Name: Non-Conventional energy sources and Optical Fibre

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	Non Conventional energy sources: Introduction, Biomass, wind energy, tidal energy / Ocean energy, geothermal energy, biogas hydro energy, wind energy, solar energy, Bio-Gas plant –fixed dome type. Wind energy: Introduction to wind energy, terms and definition: wind, wind farm, wind turbine, vertical axis wind turbine (VAWT), horizontal axis wind turbine (HAWT), propeller (Wheel), wind mill, types of wind turbine generator units, monoblade HAWT, twin blade HAWT, merits and limitations of wind energy.	Lecture	12	05.04.2021 to 15.05.2021	
2.	Solar photovoltaic system: Introduction to Photovoltaic system, Solar cell fundamentals: i) Semiconductor, ii) P-N junction, iii) Generation of electron – hole pair by photon absorption, iv) I-V characteristics of solar cell Electrical storage: Lead acid battery, basic battery theory	Lecture	10	17.05.2021 to 19.06.2021	
3.	Introduction of optical fibre: Introduction, importance of optical fibre, classification of optical fibre –stepped index fibre, stepped index monomode fibre, Disadvantages of monomode fibre, plastic fibre, latest developed types of optical fibres-HPSUV, HPSIR, Halide, Tapered.	Lecture	10	21.06.2021 to 24.07.2021	
4.	Fibre cables and Fabrication: Fibre Fabrication: Classification of fibre fabrication techniques, external chemical vapour deposition (external CVD), axial vapour deposition (AVD), internal chemical vapour deposition (ICVD). Fibre Cables: Construction, strength members, cable tensile loading, minimum bend radius losses incurred during installation of cables or during subscriber service testing of cable, selection criteria, optical cable fibre laying in telephone.	Lecture	13	26.07.2021 to 07.08.2021	

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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year (2020-21)

SKMG / 1000 / 2020-21

Department of **Physics**

Paper No.: **Phy-103 –III (I Sem.)**

Class: B.A. / B.Sc. / M.A. / M.Sc. / Management Science

Name of Faculty Member: **Dr. R. H. Kadam**

Paper Name: **Practical**

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	Determination of acceleration due to gravity by Kater's pendulum.	Demonstration	06	02.11.2020 to 10.11.2020	
2.	Y by bending of a beam loaded at the centre.	Demonstration	06	18.11.2020. to 28.11.2020	
3.	Determination of Y by cantilever (oscillation method).	Demonstration	06	01.12.2020 to 15.12.2020	
4.	M. I. by bifilar suspension.	Demonstration	06	16.12.2020 to 30.12.2020	
5.	S. T. by Jaeger's method.	Demonstration	06	01.01.2021 to 18.01.2021	
6.	Determination of coefficient of viscosity by Poiseuille's method.	Demonstration	06	19.01.2021 to 30.01.2021	

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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year (2020-21)

SKMG / 1000 / 2020-21

Department of Physics

Paper No.: Phy-106, Paper –VI (II Sem.)

Class: B.A. / B.Sc. / M.A. / M.Sc. / Management Science

Name of Faculty Member: Dr. R. H. Kadam

Paper Name: Practical

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	Y by Searl's Apparatus.	Demonstration	06	05.04.2021 to 27.04.2021	
2.	M.I. by Flywheel	Demonstration	06	28.04.2021 to 15.05.2021	
3.	Thermal conductivity of bad conductor by Lee's disc method	Demonstration	06	17.05.2021 to 31.05.2021	
4.	Study of CRO	Demonstration	06	01.06.2021 to 25.06.2021	
5.	Field along the axis of circular coil	Demonstration	06	26.06.2021 to 10.07.2021	
6.	Calibration of spectrometer	Demonstration	06	12.07.2021 to 06.08.2021	

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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year (2020-21)

SKMG / 1000 / 2020-21

Department of Physics

Paper No.: **Phy-303 & 304, Paper –XVII & XVIII (V Sem.)**

Class: B.A. / B.Sc. / M.A. / M.Sc.

Name of Faculty Member: **Dr. R. H. Kadam**

Paper Name: **Practical**

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	Measurement of focal length of convex lens using laser.	Demonstration	21	02.11.2020 to 20.11.2020	
2.	Spectral response of photoconductor (LDR)	Demonstration	21	21.11.2020 to 28.11.2020	
3.	Diffraction of grating using laser	Demonstration	21	01.12.2020 to 19.12.2020	
4.	R. I. Of optical fibre	Demonstration	21	20.12.2020 to 31.12.2020	
5.	Constant of B.G. by standard condenser method	Demonstration	21	01.01.2021 to 14.01.2021	
6.	Study of Absorption spectra of Iodine	Demonstration	21	15.01.2021 to 25.01.2021	
7.	Beam divergence of a diode laser	Demonstration	21	27.01.2021 to 04.02.2021	
8.	Diameter of thin wire using laser	Demonstration	21	05.02.2021 to 17.02.2021	
9.	Wavelength of He-Ne laser by transmission grating	Demonstration	21	18.02.2021 to 29.02.2021	
10.	Y by Koenig's method	Demonstration	21	30.02.2021 to 02.03.2021	
11.	e/m by Thomson method (excel)	Demonstration	21	02.03.2021 to 04.03.2021	
12.	Edser's A pattern	Demonstration	21	05.03.2021 to 06.03.2021	

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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year (2020-21)

SKMG / 1000 / 2020-21

Class: B.A. / B.Sc. / M.A. / M.Sc.

Department of Physics

Name of Faculty Member: Dr. R. H. Kadam

Paper No.: Phy-307 & 308, Paper –XXI & XXII (VI Sem.)

Paper Name: Practical

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	Thermal conductivity by Forbs method	Demonstration	21	05.04.2021 to 15.04.2021	
2.	Rydberg constant	Demonstration	21	16.04.2021 to 24.04.2021	
3.	Dielectric constant of liquid / solid	Demonstration	21	25.04.2021 to 03.05.2021	
4.	B-H curve using magnetometer	Demonstration	21	04.05.2021 to 18.05.2021	
5.	I-H curve by Excel	Demonstration	21	19.05.2021 to 31.05.2021	
6.	Rydberg constant by Excel	Demonstration	21	01.06.2021 to 15.06.2021	
7.	Temperature coefficient of resistance of semiconductor	Demonstration	21	16.06.2021 to 24.06.2021	
8.	Temperature of sodium flame	Demonstration	21	25.06.2021 to 31.06.2021	
9.	Hartsmann dispersion formula	Demonstration	21	01.07.2021 to 10.07.2021	
10.	Maxwells bridge	Demonstration	21	12.07.2021 to 22.07.2021	
11.	λ by grating	Demonstration	21	23.07.2021 to 31.07.2021	
12.	Bridge rectifier	Demonstration	21	02.08.2021 to 07.08.2021	

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SHRIKIRSHNA MAHAVIDYALAYA, GUNJOTI

Teaching days Calendar for 180 days

Department : **Zoology**

Academic year **2020-21**


Name of the Faculty Member : **Dr.D.M.Pathan**

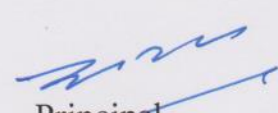
Term	Month	Working Days	Theory Periods		Practical Periods		Total Periods
			I	III	I	III	
First Term	Aug	20	--	10	--	--	10
	Sept	25	--	12	--	--	12
	Oct	24	--	13	--	--	13
	Nov	22	11	11	--	--	22
	Dec	26	14	12	--	--	26
	Jan	24	11	13	--	--	24
	Feb	23	12	11	12	36	71
	March	06	03	03	03	09	18
	Total I	170	51	85	15	45	196
Second Terms	April	20	09	11	12	33	65
	May	23	12	11	12	36	71
	June	26	14	12	12	39	77
	July	26	11	15	15	36	77
	Aug	06	03	03	03	09	18
	Total II	101	49	52	54	153	308
	Total I+II	271	100	137	69	198	504

Total Teaching days **271**

Total Theory Periods **237**

Total Practical Periods **267**


Signature of Faculty Member


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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching – Plan Academic Year (2020-21)

SKMG / 1000 / 2017-18

Department of **Zoology**

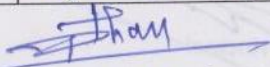
Paper No.: II (Semester I)

Class: **B.Sc. I**

Name of Faculty: **Dr. D.M.Pathan**

Paper Name: **Cell Biology**

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	General structure of cell. Ultra structure of eukaryotic cell, prokaryotic cell, Cell Cycle, Mitosis, Meiosis	Online	12	Nov 2020	
2.	Organization of cell A) Study of Various cell organelles Plasma Membrane: - Structure and function. Endoplasmic reticulum: - Structure and function. Golgi Bodies: - Structure and function Mitochondria: - Morphology, Ultra-Structure, function and biogenesis. Nucleus: - Structure and function. DNA Structure. Types of RNA Lysosome: - Structure, function and polymorphism Ribosome: - Structure and function B) Cytology of Cancer, Types of Cancer	Online	20	Dec2020 to Jan2021	
3.	Methods in Cell Biology (in brief) A) Light Microscope Phase contrast microscope Electron microscope B) Micro techniques, (Microtomy) Fixation & Staining	Lecture	13	Feb 2021	


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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year (2020-21)

Class: B.Sc. I

Name of Faculty: Dr. D.M.Pathan

Paper Name: Arthropoda to Echinodermata And Protochordata

SKMG / 1000 / 2018-2019

Department of Zoology

Paper No.: IV (Semester II)

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	Arthropoda: - General characters Prawn: - Structure, Digestive, Nervous, & Reproductive systems. Cockroach: External Characters, Digestive, Respiratory and Reproductive systems	Lecture	15	5April to 12 May 2021	
2.	Mollusca: - General characters Pila: - External Characters, Respiratory, Circulatory, Nervous and Reproductive systems	Lecture	06	17 May to 1 June 2021	
3	Echinodermata : - General characters Asterias (Sea Star): - Morphology of oral & aboral view, Water vascular system, Reproductive system including development	Lecture	10	2 to 23 June2021	
4.	General characters and Classification of Protochordata Amphioxus: - External features, Digestive, Circulatory, Reproductive systems including development. Hemichordata: - General characters and affinities Herdmania: - General characters and morphology	Lecture	14	28 June to 28 July2021	

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Tq.Omerga Dist.Osmanabad



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year (2020-21)

SKMG / 1000 / 2018-2019

Class: **B.Sc. I**

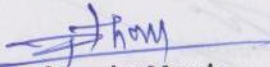
Department of **Zoology**

Name of Faculty Member: **Dr. D.M.Pathan**

Paper No.: **III (Semester I)**

Paper Name: **PROTOZOA TO ANNELIDA & CELL BIOLOGY (PRACTICAL)**

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Days	Duration of Date / Month/ Year	Remarks
1.	Study of slides from Ciliates, Opalinales, and Flagellates	Demonstration	01	20 Feb 2021	
2.	Study of museum specimen and slides from Porifera to Annelida.	Demonstration	02	27 Feb to 6 March 2021	
3.	Dissection: Dissection of Leech for Digestive, Excretory & Reproductive systems. Dissection of Earthworm for Nervous System & Reproductive system	Demonstration	05	13 March to 10 April 2021	
4.	Mounting of any five of the following. Sponge spicules, Gemmule, Obelia colony, Jaws of Leech. Spermataca, testes nerve ring of Earthworm, Parapodia of Nereis.	Demonstration	01	17 April 2021	
5.	Study of cell organelles by using Models, Charts, Slides & Electron micrographs.	Demonstration	01	24 April 2021	


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Tq. Omerga Dist. Osmanabad



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year (2020-21)

SKMG / 1000 / 2018-2019

Department of Zoology

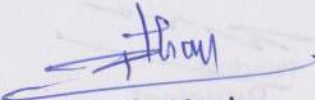
Paper No.: III (Semester I)

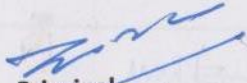
Class: B.Sc. I

Name of Faculty Member: Dr. D.M.Pathan

Paper Name: PROTOZOA TO ANNELIDA & CELL BIOLOGY (PRACTICAL)

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Days	Duration of Date / Month/ Year	Remarks
6.	Squash preparation of Onion root tip to study Mitosis.	Demonstration	01	8 May 2021	
7.	Preparation of polytene chromosome in chironomous larva/fruit flies.	Demonstration	01	15 May 2021	
8.	Microtechnique: - Fixation, dehydration, Block preparation, Microtomy and Staining of Rat tissue.	Demonstration	02	22,29 May 2021	
9.	Study of Microscopy: - Simple, Compound, & Phase Contrast Microscope	Demonstration	01	5 June 2021	


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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year (2020-21)

SKMG / 1000 / 2018-2019

Class: B.Sc.I

Department of **Zoology**

Name of Faculty Member: **Dr. D.M.Pathan**

Paper No.: **VI** (Semester II) Paper Name: **ARTHROPODA TO ECHINODERMATA AND PROTOCHORDATA & CELL BIOLOGY (PRACTICAL)**

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Days	Duration of Date / Month/ Year	Remarks
1.	Study of museum specimen & slides of relevant Invertebrates & Protochordata. (At least 3 from each phylum).	Demonstration	03	12,19,26 June 2021	
2.	Dissections: Dissection of Prawn for Nervous system Dissection of Cockroach for Digestive and Nervous Systems. Dissection of Pila for Nervous system. Dissection of Sea Star for Water Vascular System.	Demonstration	05	3 to 31 July 2021	
3.	Mounting of any five of the following. Mouthparts of Cockroach, Mosquito, House fly, Bed bug and Honeybee. Salivary glands of cockroach. Redula of Pila, Pedicillaria of Star fish.	Demonstration	01	7 Aug 2021	
4.	Culture of Drosophila- experimental organism in genetics Observation of common mutants of drosophila	Demonstration	01	14 Aug2021	
5.	Determination of human blood groups A, B, AB, and O, Rh factor.	Demonstration	01		
6.	Major and minor problems in genetics	Demonstration	04		


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Teaching –Plan Academic Year (2020-21)

Class: B.Sc.III

SKMG / 1000 / 2018-2019

Department of Zoology

Name of Faculty Member: Dr. D.M.Pathan

Paper No.: XVI (Semester V)

Paper Name: Fishery Science I

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	Introduction Definition and history, General characters and classification Concept of blue revolution, Importance of fishes.	Online	05	Aug-2020	
2.	Freshwater fisheries Status of freshwater fisheries, past, present and future Freshwater capture fisheries, cat fishes, rout. Effect of aquatic pollution on fisheries	Online	10	Sept. 2020	
3.	Revering and reservoir fisheries. Major river systems of India Important fisheries of Indian rivers system Major reservoirs of Maharashtra Reservoir fisheries and its management. Exploitation of reservoir fisheries	Online	10	Oct. 2020	

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Class: B.Sc.III

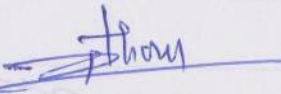
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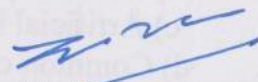
Name of Faculty Member: Dr. D.M.Pathan

Paper No.: XVI (Semester V)

Paper Name: Fishery Science I

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
4.	Brackish water fisheries Principle fisheries of brackish water, milkfish, mullet, tilapia. Fisheries of the chilka, pulicat and Kolleru Lake	Online	08	Nov-2020	
5.	Marine water fisheries. Oil-sardine Mackeal Ribbon fish fisheries. Bombay-duck Pomfret-fishery	Lecture	08	Dec-2020	
6.	Application of remote sensing technique in pelagic fisheries	Lecture	04	Jan-2021	


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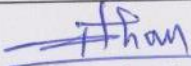
Paper No.: **XX** (Semester VI)

Class: **B.Sc.III**

Name of Faculty Member: **Dr. D.M.Pathan**

Paper Name: **Fishery Science II**

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	Introduction a) Types of freshwater ponds-perennial and seasonal. b) Different types of ponds-nursery, rearing and stoking ponds. c) Design, construction and maintenance of nursery, rearing and stocking ponds. d) Productivity of ponds e) principles of fish collection f) Fish culture methods g) Culture – cat fisheries h) Sewage fed fisheries	Lecture	15	1April to 7 May2021	
2.	Fish crop production (fish diseases) Protozoan, fungal, bacterial, viral worms diseases	Lecture	06	8 to 22May2021	
3.	Breeding of fishes a) Natural spawning of carps c) Artificial breeding by hypophysation d) Common carp breeding	Lecture	08	27 May to 11 June 2021	


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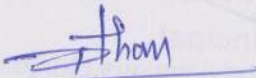
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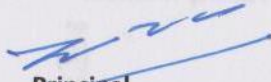
Name of Faculty Member: Dr. D.M.Pathan

Paper No.: XVIII (Semester V)

Paper Name: Fishery Science I(Practical)

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Days	Duration of Date / Month/ Year	Remarks
1.	Study of freshwater fishes. Major carps Other carps. Cat fishes Clupoides	Demonstration	03	15 Feb to 6 March 2021	
2.	Study of brackish water fishes. <i>Hilsa hilsa, Chanos chanos (milkfish), Latis calcarifer, Tilapia</i>	Demonstration	02	1 to 12 April 2021	
3.	Study of marine ware fishes. Oil sardine Mackerel Ribbon -fish Bombay-duck Pomfret Sole Polynemus	Demonstration	03	15 April 5May 2021	
4.	Water analysis	Demonstration	05	10 to 31 May 2021	
5.	Visit to local or any reservoir and marine fish landing centre and student should be submit a project report at the time of practical examination		01	1 June2021	


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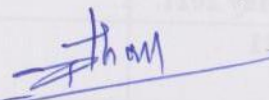
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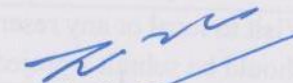
Name of Faculty Member: **Dr. D.M.Pathan**

Paper No.: **XX** (Semester VI)

Paper Name: **Fishery Science II**

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
4.	Fish preservation and processing a) Fish processing methods b) Fish –spoilage c) Value added products d) Sanitation and HACCP	Lecture	08	12 June to 1 July 2021	
5.	Crafts and gears a) Different types of gears b) Different types of crafts c) Preservation of gears	Lecture	08	2 to 24 July 2021	


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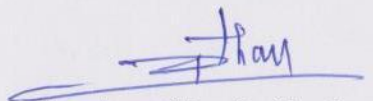
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Name of Faculty Member: **Dr. D.M.Pathan**

Paper No.: **XXII** (Semester VI)

Paper Name: **Fishery Science I(Practical)**

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Days	Duration of Date / Month/ Year	Remarks
1.	Primary productivity of ponds (plankton studies).	Demonstration	02	2 to 14 June 2021	
2.	Identification, classification and culturable significance of following. Catla, Rohu, Mrigal, Catfishes, Exotic Fishes	Demonstration	03	16 to 30 June 2021	
3.	Collection and identification of fish parasites and worms.	Demonstration	04	1 to 31 July 2021	
4.	Removal of fish pituitary gland and preparation of pituitary extract	Demonstration	02	Aug 2021	
5.	Identification of crafts and gears. Gill net, Rampanni, Satpati, Machwa, Catamaran	Demonstration	02		
6.	A visit to fish farm and fish processing centre is compulsory		02		


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SHRIKIRSHNA MAHAVIDYALAYA, GUNJOTI

Teaching days Calendar for 180 days

Department : **Zoology**

Academic year **2020-2021**

Name of the Faculty Member : **Dr.R. S. Madle**

Term	Month	Working Days	Theory Periods		Practical Periods		Total Periods
			II	III	II	III	
First Term	Aug	20	05	05	--	--	10
	Sept.	25	05	05	--	--	10
	Oct	24	04	04	--	--	08
	Nov	22	11	11	--	--	22
	Dec	26	12	14	--	--	26
	Jan21	24	13	11	--	--	24
	Feb	23	11	12	24	33	80
	March	06	03	03	06	09	21
	Total I	170	64	65	30	42	201
Second Terms	April	20	11	09	18	30	68
	May	23	11	12	24	33	80
	June	26	12	14	27	36	89
	July	26	15	11	21	42	89
	Aug	06	03	03	06	09	21
	Total II	101	52	49	96	150	347
	Total I+II	271	116	114	126	192	548

Total Teaching days **271**

Total Theory Periods **230**

Total Practical Periods **318**

Signature of Faculty Member

M. S. Madle

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Teaching –Plan Academic Year (2020-2021)

SKMG / 1000 / 2014-15

Class: B.Sc. II

Department of **Zoology**

Name of Faculty: **Dr. R.S. Madle**

Paper No.: **VII** (Semester III)

Paper Name: **VERTEBRATE ZOOLOGY**

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	Agnatha: - Out line classification and general characters of cyclostomata.	Online	02	Aug 2020	
2.	Pisces: - Out line classification and general characters. Scoliodon: - External characters, Digestive system, Respiratory system, Blood Vascular System and Nervous System.	online	08	Sept 2020	
3.	Amphibia: - Out line classification and general characters. Development of frog: - Fertilization Cleavage Blastula Gastulation and formation of germinal layers. Neotony Parental care in amphibia	online	06	Oct 2020	

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Teaching –Plan Academic Year (2020-2021)

SKMG / 1000 / 2014-15

Class: B.Sc. II

Department of **Zoology**

Name of Faculty: **Dr. R.S. Madle**

Paper No.: **VII** (Semester III)

Paper Name: **VERTEBRATE ZOOLOGY**

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
4.	Reptilia: - Out line classification and general characters. Calotes:-External features, Respiratory system and Blood vascular system. Poisonous and non- poisonous snakes.	Lecture	06	5 to19 Nov 2020	
5.	Aves: - Out line classification and general charac <i>Columba livia:</i> - External features, Respiratory system, Embryology of chick.-Cleavage Blastula Gastulation and formation of germinal layers and extra embryonic membranes.Flight adaptation in birds.Migration in Birds	Lecture	10	20 Nov to 12 Dec 2020	
6.	Mammalia: - Out line classification and general characters. <i>Ratus ratus:</i> - External features, Blood Vascular System, Urino-genital System and Adaptive radiation in mammals.	Lecture	13	17 Dec to30 Jan 2021	


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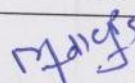
Department of Zoology

Name of Faculty Member: Dr. R.S. Madle

Paper No.: XI (Semester IV)

Paper Name: ANIMAL PHYSIOLOGY (Special Emphasis on Mammals)

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
5.	Nerve Physiology :- Structure of nerve cells and neuron. Neurotransmitters. Synapses: - Ultra structure and function	Lecture	06	12 to 26 June 2021	
6..	Muscles Physiology :- Ultra structure of smooth muscle, striated muscles, and cardiac muscles. Muscle contraction. Simple twitch and fatigue	Lecture	05	1 to 9 July 2021	
7.	Reproduction :- Structure of gonads, Gametogenesis. Role of sex hormones in Reproduction. Reproductive cycles – oestrous and menstrual cycle	Lecture	08	10 to 29 July 2021	


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Teaching –Plan Academic Year (2020-2021)

Class: B.Sc. II

SKMG / 1000 / 2014-15

Department of Zoology

Name of Faculty Member: Dr. R.S. Madle

Paper No.: XI (Semester IV)

Paper Name: ANIMAL PHYSIOLOGY (Special Emphasis on Mammals)

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	> Digestion :- Brief Introduction to digestive system. Buccal digestion - salivary secretion and digestion. Gastric digestion - gastric secretion and digestion. Intestinal digestion - Pancreatic secretion, bile juices and digestion in Small intestine, Digestion and absorption in large intestine	Lecture	07	8 to 22 April 2021	
2.	> Respiration :- Respiratory organs. Breathing mechanism. Respiratory pigments: - Properties and function of respiratory pigments. External respiration. Internal respiration. Transport of gases.	Lecture	09	23 April to 15 May 2021	
3.	> Circulation :- Working of mammalian heart. Blood and its composition. Mechanism of blood clotting	Lecture	05	20 to 28 May 2021	
4.	> Excretion :- Structure of kidney. Structure of uriniferous tubules. Urine formation: - Ultra filtration selective, re-absorption and tubular secretion. Counter current multiplier system	Lecture	05	3 to 11 June 2021	

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Teaching –Plan Academic Year (2020-2021)

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Class: B.Sc.II

Department of Zoology

Name of Faculty Member: Dr. R.S. Madle

Paper No.: XIII(Semester IV)

Paper Name: ANIMAL PHYSIOLOGY (PRACTICAL)

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of days	Duration of Date / Month/ Year	Remarks
1.	To study the digestive enzymes from cockroach/Human Saliva.	Demonstration	02	19,24 May 2021	
2.	Total count of RBC /WBC from given blood sample	Demonstration	04	31 May 9 June 2021	
3.	Preparation of Heamatin crystals from blood sample.	Demonstration	01	14 ,16June 2021	
4.	Hb% from given blood sample	Demonstration	01	21,23 June 2021	
5.	Effect of isotonic, hypotonic, and hypertonic solutions on blood cell (RBCs)	Demonstration	01	28,30 June 2021	
6.	Detection of nitrogenous waste product from the extract of different animals	Demonstration	01	5,7 July 2021	
7.	Detection of nitrogenous waste product in fish/frog water tank.	Demonstration	01	12,14 July 2021	
8.	Estimation of O ₂ consumed by fish in relation to temperature by Wrinkle's method	Demonstration	01	19,26 July 2021	
9.	Typographic reading of skeletal muscle properties , heart beating in Toad / Rat. (Demo only)	Demonstration	01	28July 2 Aug 21	
10.	Histological study of following. T.S. of Kidney ,T.S. of Testis ,T.S. of Ovaries ,T.S. of Pancreas ,T.S. of Intestine	Demonstration	01	4Aug 2021	

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Class: B.Sc.II

Department of Zoology

Name of Faculty Member: Dr. R.S. Madle

Paper No.: IX (Semester III)

Paper Name: VERTEBRATE ZOOLOGY (Practical)

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of days	Duration of Date / Month/ Year	Remarks
1.	Museum study of vertebrates. (At least 20). (Identification, classification, sketches, General characters and biological importance).	Demonstration	05	1to 24 Feb 2021	
2.	Dissection of Scoliodon / Labeo <ul style="list-style-type: none">➤ Afferent and efferent,➤ Cranial Nerves.➤ Brain .	Demonstration	03	1 March to 19 April 2021	
3.	Dissection of Rat/ Frog ; <ul style="list-style-type: none">➤ Urinogenital system,➤ Arterial system,➤ Venous System,➤ Brain of Rat	Demonstration	05	26April 10 May 2021	
4.	.Mounting of Placoid, Cycloid and Ctenoid scales of fish	Demonstration	01	12 May 2021	
5.	Study of Embryological development of chick according to hours of incubation	Demonstration	01	17 May 2021	

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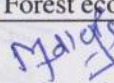
Department of Zoology

Name of Faculty Member: Dr. R.S. Madle

Paper No.: XV (Semester V)

Paper Name: ECOLOGY

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
4.	Population :- Definition and basic concepts Characteristics of population; Density, Natality, Mortality, Dispersion and Age distribution. Population growth. Population regulation	Lecture	06	23Nov to 7 Dec 2020	
5.	Community :- Definition, basic concept and types. Structure of community; producer, consumers and decomposers. Characters; ecological niche, diversity, abundance, dominance, ecotone, edge effect. Community succession; example of succession and climax	Lecture	06	8 to 21 Dec2020	
6.	Ecosystem :- Definition, concept and types. Components of ecosystem, Dynamics of ecosystem: - primary production, secondary production, food chain, food web, tropic level, energy of flow, ecological pyramids. Brief introduction to major ecosystems: - Marine ecosystem, Pond ecosystem, Forest ecosystem and Desert ecosystem.	Lecture	15	22 Dec to 27 Jan 2021	


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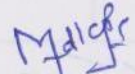
Paper No.: **XV** (Semester V)

Class: **B.Sc.III**

Name of Faculty Member: **Dr. R.S. Madle**

Paper Name: **ECOLOGY**

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	Introduction :- Definition, basic concept, terminology used in ecology.	Online	02	Sept. 202	
2.	Abiotic environmental factors. Temperature; Concept, temperature fluctuation in different environment. Range of temperature tolerance, effect of temperature on animals, Thermal adaptation. Light-Concept, Light variation in different environment, effect of light on animals. Adaptation to salinity and moisture	Online	08	Oct2020	
3.	Biotic environmental factors :- Competition: - Definition, types, intra specific and inter specific competition Predation: - Definition, characteristics of predation. Commensalisms: - Definition and types with examples. Mutualism: - Definition and example. Parasitism: - Definition and types with examples	Lecture	08	2 to 18 Nov 2020	


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Class: B.Sc.III

Department of Zoology

Name of Faculty Member: Dr. R.S. Madle

Paper No.: XIX (Semester VI)

Paper Name: EVOLUTION

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Re.marks
6.	Basic patterns of evolution :- Sequential and divergent evolution. Microevolution: - Concept, silent features and mechanism with example. Macro evolution: - Concept, silent features and mechanism with example. Mega evolution: - Concept, silent features and mechanism with example	Lecture	09	9 to 30 June 2021	
7.	Species and speciation:- Species: - Morphological concept, Genetical concept, biological concept of species Speciation: - Definition, concept, mechanism of speciation. Allopatric, Sympatric and Parapatric speciation.	Lecture	07	5 to 19 July 2021	
8.	Fossils :- Definition , fossil formation Types of fossils	Lecture	04	20 to 28 July 2021	

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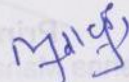
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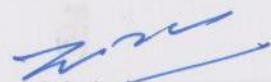
Name of Faculty Member: **Dr. R.S. Madle**

Paper No.: **XIX (Semester VI)**

Paper Name: **EVOLUTION**

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	Concept of organic evolution :- Definition and concept. Theories of organic evolution in brief; Preformation theory, Bear's Law, Biogenetic law, catastrophism, Lamarckism, Darwinism and Germplasm theory	Lecture	06	5 to 20 April 2021	
2.	Origin of Life :- Definition, Abiogenesis, Biogenesis. Chemical evolution of life.	Lecture	03	26 to 28 April 2021	
3.	Evidences of Organic Evolution :- Anatomical evidences. Embryological evidences	Lecture	04	3 to 10 May 2021	
4.	Darwinism :- Introduction :- Natural selection theory, Artificial selection theory and sexual selection theory	Lecture	05	11 to 19 May 2021	
5.	Elemental forces of evolution :- Mutation: - Concept and role in evolution. Recombination: - Concept and role in evolution. Natural selection: - Concept and role in evolution. Isolation: - Concept and role in evolution. Genetic Drift. : - Concept and role in evolution	Lecture	07	24 May to 8 June 2021	


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SKMG / 1000 / 2014-15

Class: B.Sc.III

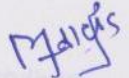
Department of Zoology

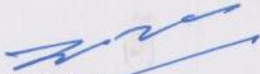
Name of Faculty Member: Dr. R.S. Madle

Paper No.: XXI (Semester VI)

Paper Name: EVOLUTION (PRACTICAL)

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of days	Duration of Date / Month/ Year	Remarks
1.	Embryological evidences of evolution with the help of slide/chart/pictures	Demonstration	02	8 to 15 June 2021	
2.	Adaptive modification in feets of birds and mouth parts of insects	Demonstration	02	19 to 26 June 2021	
3.	Study of successive stages of evolution with the help of models/charts Horse Human	Demonstration	02	2 to 9 July 2021	
4.	Discussion on patterns of speciation with the help of charts /pictures. Allopatric speciation Sympatric speciation	Demonstration	02	10 to 17 July 2021	
5.	Study the homologous and analogous organs	Demonstration	04	20 to 31 July 2021	
6.	Study of natural selection using <i>E.coli</i> bacteria against antibiotics (Tetramycin/ Penicillin)	Demonstration	01	3 to 6 Aug 2021	
7.	Study of geographical aera	Demonstration	02	7 Aug 2021	


Signature of Faculty Member


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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year (2020-2021)

SKMG / 1000 / 2014-15

Class: B.Sc.III

Department of Zoology

Name of Faculty Member: Dr. R.S. Madle

Paper No.: XVII (Semester V)

Paper Name: ECOLOGY (PRACTICAL)

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of days	Duration of Date / Month/ Year	Remarks
1.	Estimation of productivity of pond ecosystem using white and dark bottle method	Demonstration	02	2 to 13 Feb 2021	
2.	Determine the following parameters of soil. pH Alkalinity Chlorinity Salinity	Demonstration	04	16 Feb to 6 March 2021	
3.	Analysis of DO, CO ₂ , Salinity, Chlorinity of water sample.	Demonstration	04	6 April 2021	
4.	Study of animal association ship with example (Charts/photo) - Competition, mutualism, parasitism, predation and commensalisms	Demonstration	01	4 to 8 May 2021	
5.	Estimation of population density by Quadrate method on field 04 and by Simulation method	Demonstration	03	11 to 29 May	
6.	Preparation of permanent slides of following <i>Spirogyra</i> , <i>Verticella</i> , <i>Odogonium</i> , <i>Daphnia</i> , <i>Cyclops</i> , <i>Mysis</i> , <i>Cypris</i> , <i>keretella</i>	Demonstration	01	1 to 5 June 2021	

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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Academic Year: (2020-2021)

Faculty of Arts / Science

Department of ZOOLOGY

Name of Faculty Member: **Dr.Ugale.B.J.**

Lockdown

Month	Teaching days	Theory Periods		Practical Periods		Total Periods
		I	II	I	II	
August	20	00	10	00	00	10
September	25	00	11	00	00	11
October	24	00	13	00	00	13
Total	69	00	34	00	00	34

Academic Calendar for 180 Days

Term	Month	Teaching days	Theory Periods		Practical Periods		Total Periods
			I	II	I	II	
First Term	November	22	11	11	00	00	22
	December	26	12	00	00	00	12
	January	24	13	00	00	00	13
	February	23	09	00	12	18	39
	March	06	00	00	24	36	60
Total 1		101	45	11	36	54	146
Second Term	April	20	11	09	18	33	71
	May	23	11	12	18	33	74
	June	26	12	14	27	36	89
	July	26	11	10	24	42	87
	August	06	00	00	18	24	42
Total 2		101	45	45	105	168	363
Total 1 + 2		202	90	90	141	222	543

Total Teaching Days = 202

Total Theory Periods = 180

Total Practical Periods = 363

Signature of Faculty Member



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching – Plan Academic Year (2020-2021)

Class: B.Sc. I

Department of **Zoology**

Paper No.: I (Semester I)

Name of Faculty: **Dr. Ugale B.J.**

Paper Name: **Protozoa to Annelida**

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	Introduction to animal kingdom	Lecture	03	2 Nov. 2020 to 4 Nov. 2020	
2.	Protozoa	Lecture	09	9 Nov. 2020 to 3 Dec. 2020	
3.	Porifera	Lecture	08	4 Dec. 2020 to 19 Dec. 2020	
4.	Coelenterates	Lecture	06	24 Dec. 2020 to 7 Jan. 2021	
5.	Helminthes	Lecture	12	8 Jan. 2021 to 5 Feb. 2021	
6.	Annelida	Lecture	07	6 Feb. 2021 to 25 Feb. 2021	

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Tq. Omerga Dist. Osmanabad



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching – Plan Academic Year (2020-2021)

Class: B.Sc. I

Department of Zoology

Paper No.: III (Semester I)

Name of Faculty Member: Dr. Ugale B.J.

Paper Name: PROTOZOA TO ANNELIDA & CELL BIOLOGY (PRACTICAL)

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	Study of slides from Ciliates, Opalinates, and Flagellates	Demonstration	01	III Week of February 2021	
2.	Study of museum specimen and slides from Porifera to Annelids.	Demonstration	02	IV Week of February To I Week of March 2021	
3.	Dissection:	Demonstration	05	II Week of March 2021 To II Week of April 2021	
4.	Mounting of any five of the following.	Demonstration	01	III Week of April 2021	
5.	Study of cell organelles by using Models, Charts, Slides & Electron micrographs.	Demonstration	01	IV Week of April 2021	
6.	Squash preparation of Onion root tip to study Mitosis.	Demonstration	01	I Week of May 2021	
7.	Preparation of polytene chromosome in chironomous larva/fruit flies.	Demonstration	01	II Week of May 2021	
8.	Microtechnique	Demonstration	02	III, IV Week of May 2021	
9.	Study of Microscopy	Demonstration	01	I Week of June 2021	

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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching – Plan Academic Year (2020-2021)

Class: B.Sc. I

Department of Zoology

Paper No.: V (Semester II)

Name of Faculty Member: Dr. Ugale B.J.

Paper Name: GENETICS – I

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	Elements of heredity & variation	Lecture	04	8 April 2021 to 15 April 2021	
2.	Gene interaction	Lecture	05	16 April 2021 to 24 April 2021	
3.	Multiple Alleles	Lecture	05	29 April 2021 to 8 May 2021	
4.	Cytoplasmic inheritance.	Lecture	08	14 May 2021 to 29 May 2021	
5.	Sex Determination	Lecture	08	3 June 2021 to 18 June 2021	
6.	Mutation	Lecture	15	19 June 2021 to 23 July 2021	

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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching – Plan Academic Year (2020-2021)

Class: B.Sc. I

Name of Faculty Member: Dr. Ugale B.J.

Department of Zoology

Paper No.: VI (Semester II)

Paper Name: ARTHROPODA TO ECHINODERMATA AND PROTOCHORDATA & CELL BIOLOGY (PRACTICAL)

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	Study of museum specimen & slides of relevant Invertebrates & Protochordata. (At least 3 from each phylum).	Demonstration	03	II To IV Week of June 2021	
2.	Dissections:	Demonstration	05	I Week of July 2021 To II Week of August 2021	
3.	Mounting of any five of the following. Mouthparts of Cockroach, Mosquito, House fly, Bed bug and Honeybee. Salivary glands of cockroach. Redula of Pila, Pedicillaria of Star fish.	Demonstration	01	III Week of August 2021	
4.	Culture of Drosophila	Demonstration	01	IV Week of August 2021	
5.	Determination of human blood groups A, B, AB, and O, Rh factor.	Demonstration	01	I Week of Sept. 2021	
6.	Major and minor problems in genetics	Demonstration	04	II To IV Week of Sept. 2021	

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Tq. Omerga Dist. Osmanabad



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching – Plan Academic Year (2020-2021)

Class: B.Sc. II

Department of Zoology

Name of Faculty Member: Dr. Ugale B.J.

Paper No.: VIII (Semester III)

Paper Name: Genetics –II

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	Genes and its expression	Lecture	08	6 Aug. 2020 to 27 Aug. 2020	
2.	Population Genetics	Lecture	05	28 Aug. 2020 to 5 Sep. 2020	
3.	Human Genetics	Lecture	12	10 Sep. 2020 to 8 Oct. 2020	
4.	Microbial Genetics	Lecture	05	9 Oct. 2020 to 17 Oct. 2020	
5.	Genetic Engineering	Lecture	15	22 Oct. 2020 to 25 Nov. 2020	

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Shrikrishna Mahavidyalaya, Gunjoti
Tq. Omerga Dist. Osmanabad



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching – Plan Academic Year (2020-2021)

Class: B.Sc. II

Department of **Zoology**

Name of Faculty Member: **Dr. Ugale B.J.**

Paper No.: **X (Semester III)**

Paper Name: **Genetics –II (Practical)**

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	Preparation of paper model of DNA and study of DNA structure	Demonstration	01	III Week of Feb. 2021	
2.	Study of protein synthesis with the help of chart/models.	Demonstration	02	IV Week of Feb. To I Week of March 2021	
3.	Estimation of DNA from animal tissue with the help of Diphenyl amine method.	Demonstration	02	II, III Week of March 2021	
4.	Study of preparation of Normal Karyotype of human.	Demonstration	01	IV Week of March 2021	
5.	Karyotypic study of Down's syndrome, Turner's syndrome, Klinefelter's syndrome with the help of photograph.	Demonstration	02	I, II Week of April 2021	
6.	Detection of Barr body from epithelial cell.	Demonstration	01	III Week of April 2021	
7.	Problems on sex linked inheritance.	Demonstration	02	IV Week of April To I Week of May 2021	
8.	Problem based on Hardy-Weinberg's Law.	Demonstration	02	II, III Week of May 2021	
9.	Study of gene frequency and mutants of man:	Demonstration	02	IV Week of May To I week of June 2021	

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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching – Plan Academic Year (2020-2021)

Class: B.Sc. II

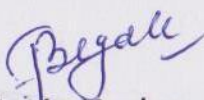
Department of Zoology

Name of Faculty Member: Dr. Ugale B.J.

Paper No.: XII (Semester IV)

Paper Name: **BIOCHEMISTRY AND ENDOCRINOLOGY**

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
A. 1	BIOCHEMISTRY Enzymes:-	Lecture	05	5 April 2021 to 19 April 2021	
2.	Carbohydrates: -	Lecture	06	20 April 2021 to 4 May 2021	
3.	Proteins:-	Lecture	06	5 May 2021 to 18 May 2021	
4.	Lipids: -	Lecture	05	19 May 2021 to 1 June 2021	
5.	Vitamins: - Sources and deficiency.	Lecture	02	2 June 2021 to 7 June 2021	


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Tq.Omerga Dist.Osmanabad



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching – Plan Academic Year (2020-2021)

Class: B.Sc. II

Department of Zoology

Name of Faculty Member: Dr. Ugale B.J.

Paper No.: XII (Semester IV)

Paper Name: BIOCHEMISTRY AND ENDOCRINOLOGY

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
B. 1.	ENDOCRINOLOGY Endocrine system of vertebrates	Lecture	04	8 June 2021 to 15 June 2021	
2.	Pituitary gland	Lecture	05	16 June 2021 to 28 June 2021	
3.	Thyroid gland	Lecture	03	29 June 2021 to 5 July 2021	
4.	Adrenal gland	Lecture	05	6 July 2021 to 14 July 2021	
5	Pancreas	Lecture	04	19 July 2021 to 27 July 2021	


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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching – Plan Academic Year (2020-2021)

Class: B.Sc. II

Department of Zoology

Name of Faculty Member: Dr. Ugale B.J.

Paper No.: XIV (Semester IV)

Paper Name: **BIOCHEMISTRY AND ENDOCRINOLOGY (PRACTICAL)**

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration of Date / Month/ Year	Remarks
1.	Preparation of solutions of given percentage, normality and molarity.	Demonstration	02	II, III, Week of June 2021	
2.	Study of analytical instrument principal and applications.	Demonstration	04	IV Week of June To III Week of July 2021	
3.	Factors affecting enzyme activity temperature and pH.	Demonstration	02	IV, V Week of July 2021	
4.	Detection of amino acid by paper chromatography.	Demonstration	01	I Week of August 2021	
5.	Qualitative test for organic compound. Carbohydrate, Protein and Fat.	Demonstration	03	II To IV Week of August 2021	
6.	Quantitative estimation of protein from animal tissue using Lawry's method.	Demonstration	02	-	
7.	Study of permanent histological slides of endocrine glands.	Demonstration	01	-	

Signature of Faculty Member

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Shrikrishna Mahavidyalaya, Gunjoti
Tq. Omurga Dist. Osmanabad

SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Academic Calendar For 180 Days

Faculty of Arts / Science / Management Science

Academic Year: (2020-21)

(Department of Mathematics)


Name of Faculty Member: H. S. Bhosale

Term	Month	Working days	B.Sc. I	B.Sc. II	B.Sc. III	Total Periods
First Term	Nov	22	18	18	36	72
	Dec	26	21	21	42	84
	Jan	24	21	21	42	84
	Feb	23	20	20	40	80
	Mar	06	05	05	10	20
Total 1		101	85	85	170	340
Second Term	Apr	20	17	17	34	68
	May	23	18	18	36	72
	Jun	26	21	21	42	84
	Jul	26	21	21	42	84
	Aug	06	05	05	10	20
Total 2		101	82	82	164	328
Total 1 + 2		202	167	167	334	668

Total Working Days = 202

Total Theory Periods = 668

Total Practical Periods = 000


Signature of Faculty Member



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI.

Teaching-Learning Academic Plan (2020– 21)

Faculty of Science
Department of Mathematics
Paper No. MAT - 302

Class : B.Sc. – II (Third Semester)
Name of Teacher: **Bhosale H. S.**
Paper Name: **Integral Transforms**

Chapter No. Unit No.	Title/Subject	Method of Teaching	No. of Periods	Duration	Remarks
1	<u>Beta and Gamma Functions:</u> Euler's Integrals – Beta and Gamma Functions, elementary properties of Gamma function, Transformation of Gamma function, Another form of Beta function, Relation between Beta and Gamma function, Other transformations.	Lecture	10	Nov 2020	
2	<u>Laplace Transform:</u> Piece-wise or sectional continuity, Function of exponential order, Function of class A, The transform concept, Laplace transform, Notation, Some standard results.	Lecture	15	Nov- Dec 2020	
3	<u>Inverse Laplace Transform:</u> Definition, Null function, Uniqueness of inverse Laplace transform, Partial fractions, Heaviside's expansion formula, The complex inversion formula	Lecture	10	Dec 2020 Jan - 2021	
4	<u>Application to Laplace Transform:</u> Differential Equations, Notations	Lecture	05	Jan 2021	
5	<u>Fourier Transform:</u> Infinite Fourier sine transform of $F(x)$, Finite Fourier cosine transform of $F(x)$, Infinite Fourier transform of $F(x)$, Relationship between Fourier transform and Laplace transform, Finite Fourier sine transform, Finite Fourier cosine transform, Fourier integral theorem.	Lecture	05	Feb 2021	

Signature of Associate Professor

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Shrikrishna Mahavidyalaya, Gunjoti
Tq.Omerga Dist.Osmanabad



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI.

Teaching-Learning Academic Plan (2020– 21)

Faculty of Science
Department of Mathematics
Paper No. MAT - 402

Class : B.Sc. – II (Fourth Semester)
Name of Teacher: **Bhosale H. S.**
Paper Name: **Partial Differential Equations**

Chapter No. Unit No.	Title/Subject	Method of Teaching	No. of Periods	Duration	Remarks
1	<u>Linear Partial Differential Equations of First order:</u> Definition of partial differential equation, Lagrange's Linear partial differential equations, Geometric interpretation of the Lagrange's partial differential equation $Pp + Qq = R$.	Lecture	10	Apr – May 2021	
2	<u>Non-linear Partial Differential Equations of First order:</u> Complete and particular integrals, General integral, Singular integral, Special method, Standard form I, Standard form II, Standard form III, Standard form IV, Charpit's method, Non-linear Partial Differential Equations of First order with three or more independent variables, Jacobi's Method	Lecture	15	May – June 2021	
3	<u>Linear Partial Differential Equation:</u> Definitions, Linear partial differential equations with constant coefficients, Non-homogeneous Linear partial differential equations, Reducible to Linear form with constant form	Lecture	15	Jul – Aug 2021	
4	<u>Linear Partial Differential Equations of Second order:</u> Equations that can be integrated by inspection, Monge's method to solve the equation $Rr + Ss + Tt = V$, Method of transformation (Canonical form)	Lecture	10	Aug 2021	

Signature of Associate Professor

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Shrikrishna Mahavidyalaya, Gunjoti
Tq. Omega Dist. Osmanabad



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI.

Teaching-Learning Academic Plan (2020 - 21)

Faculty of Science
Department of Mathematics
Paper No. MAT - 102

Class : B.Sc. – I (First Semester)

Name of Teacher: **Bhosale H. S.**

Paper Name: **DIFFERENTIAL EQUATIONS**

Chapter No. Unit No.	Title/Subject	Method of Teaching	No. of Periods	Duration	Remarks
1	Equations of The First Order and of The First Degree: Exact differential equations, linear equations, equations reducible to the linear form.	Lecture	05	Nov 2020	
2	Linear Equations with Constant Coefficients: Linear equations, complementary functions, particular integral, complete integral, The linear equations with constant coefficients and second member zero, case of auxiliary equation having equal roots, case of auxiliary equation having imaginary roots, the symbol D , the linear equation with constant coefficients and second member a function of x , the symbolic function $1/f(D)$, methods of finding the particular integral, short methods of finding particular integrals corresponding to the terms e^{ax} , x^m , $\sin ax$, $\cos ax$, $e^{ax}V$ and xV in the second member.	Lecture	15	Nov – Dec 2020	
3	Linear Equations with Variable Coefficients: The homogeneous linear equation, methods of finding solution, the symbolic functions $f(\theta)$ and $1/f(\theta)$, methods of finding the particular integral, integral corresponding to a term of form x^m in the second member, equations reducible to homogeneous linear form..	Lecture	15	Dec 20, Jan 2021	
4	Exact Differential Equations and Equations of Particular Forms: Exact differential equations, criterion of an exact differential equation, the integration of an exact equation: first integral, equations of the form $d^2y/dx^2 = f(x)$, equation of the form $d^2y/dx^2 = f(y)$	Lecture	05	Jan – 2021	
5	Ordinary Differential Equations with More Than Two Variables: Simultaneous differential equations which are linear, simultaneous equations of the First order.	Lecture	10	Feb 21	
6	Partial Differential Equations: Definitions, derivation of a partial differential equation by the elimination of constants, Derivation of a partial differential equation by the elimination of arbitrary functions.	Lecture	10	Feb – Mar 21	

Signature of Associate Professor

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Shrikrishna Mahavidyalaya, Gunjoti
Tq. Omurga Dist. Osmanabad



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI.

Teaching-Learning Academic Plan (2020 – 21)

Faculty of Science
Department of Mathematics
Paper No. MAT - 202

Class : B.Sc. – I (Second Semester)
Name of Teacher: **Bhosale H. S.**
Paper Name: **GEOMETRY**

Chapter No. Unit No.	Title/Subject	Method of Teaching	No. of Periods	Duration	Remarks
1	The Plane: Equations of the first degree in x, y, z, transformation to the normal form, determination of plane under given conditions, equations of the plane through three given points, systems of planes, two sides of a plane, length of the perpendicular from a point to a plane, bisectors of angles between two planes, joint equation of two planes.	Lecture	15	Apr 2021	
2	Right Line: Equations of a line, equations of a straight line in terms of its direction cosines and the co-ordinates of a point on it, equations of a line through two points, symmetrical and unsymmetrical forms of the equations of a line, transformation of the equations of a line to the symmetrical form, angle between a line and a plane, the condition that a given line may lie in a given plane, the condition that two given lines are coplanar, number of arbitrary constants in the equations of a straight line, sets of conditions which determine a line, the shortest distance between two lines, the length and equations of the line of shortest distance between two straight lines, length of perpendicular from a given point to a given line.	Lecture	15	May 2021	
3	Sphere: Definition and equation of the sphere, equation of the sphere through four given points, plane section of a sphere, intersection of two spheres, equation of a circle, sphere through a given circle, intersection of a sphere and a line, equation of a tangent plane.	Lecture	15	Jun 2021	
4	Cones, Cylinders: The right circular cone, equation of a right circular cone, the right circular cylinder, equation of a right circular cylinder.	Lecture	07	July 2021	
5	The Conicoid: Central conicoids, intersection of a line and a central conicoid, tangent lines and tangent plane at a point. condition that a plane may touch a central conicoid.	Lecture	08	Jul – Aug 21	

Signature of Associate Professor

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Shrikrishna Mahavidyalaya, Gunjoti
Tq. Omerga Dist. Osmanabad



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI.

Teaching-Learning Academic Plan (2020 – 21)

Faculty of Science
Department of Mathematics
Paper No. MAT - 501

Class : B.Sc. – III (Fifth Semester)
Name of Teacher: **Bhosale H. S.**
Paper Name: ANALYSIS – I

Chapter No. Unit No.	Title/Subject	Method of Teaching	No. of Periods	Duration	Remarks
1	1) Prerequisite: Sets and elements, Operations on sets. 2) Functions: Functions, Real-valued functions, Equivalence, Countability, Real numbers, Least upper bounds.	Lecture	10	Nov 2020	
2	3) Sequences of Real Numbers: Definition of sequence and subsequence, Limit of a sequence, Convergent sequences, Divergent sequences, Bounded sequences, Monotone sequences, Operations on convergent sequences, Operations on divergent sequences, Limit superior and limit inferior, Cauchy sequences.	Lecture	20	Nov – Dec 2020	
3	4) Series of Real Numbers: Convergence and divergence, Series with non-negative terms, Alternating series, Conditional convergence and convergence, Test for absolute convergence.	Lecture	15	Dec – 20 Jan 2021	
4	5) Jacobians: Definitions, Case of function of functions, Jacobian of implicit functions, Necessary and sufficient condition for a Jacobian to vanish.	Lecture	15	Jan - Feb – 21	

Signature of Associate Professor

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Shrikrishna Mahavidyalaya, Gunjoti
Tq. Omerga Dist. Osmanabad



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI.

Teaching-Learning Academic Plan (2020 – 21)

Faculty of Science
Department of Mathematics
Paper No. MAT - 601

Class : B.Sc. – III (Sixth Semester)
Name of Teacher: Bhosale H. S.
Paper Name: ANALYSIS – II

Chapter No. Unit No.	Title/Subject	Method of Teaching	No. of Periods	Duration	Remarks
1	1) Limits in Metric Spaces: Metric spaces, Limits in metric spaces. 2) Continuous Functions on Metric Spaces: Functions continuous on metric spaces, open sets, Closed sets.	Lecture	15	Apr – May 2021	
2	Connectedness, Completeness and Compactness: More about open sets, connected sets, bounded sets and totally bounded sets, Complete metric spaces, Compact metric spaces, Continuous functions on compact metric spaces, Uniform continuity.	Lecture	15	May – Jun 2021	
3	Calculus: Sets of measure zero, Definition of Riemann Integral, Existence of Riemann Integral, Fundamental Theorem of Calculus.	Lecture	15	Jun- Jul 2021	
4	Fourier Series: Introduction.	Lecture	15	Jul-Aug 2021	

Signature of Associate Professor

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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI.

Teaching-Learning Academic Plan (2020 – 21)

Faculty of Science
Department of Mathematics
Paper No. MAT - 502

Class : B.Sc. – III (Fifth Semester)

Name of Teacher: **Bhosale H. S.**

Paper Name: **ABSTRACT ALGEBRA– I**

Chapter No. Unit No.	Title/Subject	Method of Teaching	No. of Periods	Duration	Remarks
1	1) Prerequisite: Sets, Functions, Integers. 2) Group Theory: Definition of a group, Some examples of groups, Some preliminary lemmas Subgroups, A counting Principle, Normal subgroups and quotient groups Homomorphism, Automorphism.	Lecture	30	Nov, Dec, 2020 Jan 2021	
2	3) Ring Theory: Definition and examples of rings Some special classes of ring, Ideals and quotient rings More ideals and quotient rings, Polynomial ring.	Lecture	30	Jan, Feb, Mar 2021	

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Tq. Omurga Dist. Osmanabad



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI.

Teaching-Learning Academic Plan (2020 – 21)

Faculty of Science
Department of Mathematics
Paper No. MAT - 602

Class : B.Sc. – III (Sixth Semester)
Name of Teacher: **Bhosale H. S.**
Paper Name: **ABSTRACT ALGEBRA – II**

Chapter No. Unit No.	Title/Subject	Method of Teaching	No. of Periods	Duration	Remarks
1	Vector Spaces and Modules: Elementary basic concepts	Lecture	15	Apr 2021	
2	Linear independence and bases	Lecture	10	May 21	
3	Dual Spaces,.	Lecture	10	May Jun – 21	
4	Inner product spaces	Lecture	15	Jun – Jul – 21	
5	Modules	Lecture	10	Jul– Aug – 21	

Signature of Associate Professor

Principal

Principal

Shrikrishna Mahavidyalaya, Gunjoti
Tq. Omega Dist. Osmanabad

Shrikrishna Shikshan Sanstha's
SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Academic Calendar for 180 Days

Faculty of Science

Academic Year- 2020- 2021

Department of Mathematics

Name of Faculty: Dr. J.A. Nanware

Term	Month	Working days	Theory periods			Practical periods			Total periods
			I	II	III	I	II	III	
First Term	August Online	20	00	10	05	00	00	00	15
	September Online	25	00	40	20	00	00	00	60
	October Online	24	00	35	15	00	00	00	50
	November Online	22	10	35	15	00	00	00	60
	December Online	14	15	00	05	00	00	00	20
	January Online	24	15	00	00	-----			15
	February	23	15	00	00	-----			15
	March	06	05	--		-----			05
Total 1		170	60	120	60	-			240
Second Term	April	20	10	20	10	00	00	00	40
	May	23	15	35	10	00	00	00	60
	June	26	15	35	20	00	00	00	70
	July	26	15	30	20	00	00	00	65
	August	06	05	00	00	00	00	00	05
Total 2		101	60	120	60	-			240
Total 1+2		271	120	240	120	-			480

Total working days = 271

Total theory periods = 480

Signature of Faculty Member

J.A. Nanware

Principal

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GUNJOTI, DIST OSMANABAD (M.S.)



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year (2020-2021)

Class: B.Sc.First Year

Department of Mathematics

Paper No.: MAT 101

Name of Faculty: Dr. J. A. Nanware

Paper Name: Differential Calculus

Chap. No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1.	Prerequisite:Functions: Domain and range of a function, independent and dependent variables, polynomial functions and rational functions, constant functions and identity functions, one-one functions, onto function, invertible functions, composite function	Virtual Lecture	05	02/11/2020-09/11/2020	
	Limit and continuity: Limit of a function, left handed and right handed limits, nonexistence of limit, theorems on limits(statements only), theorems on continuity (statements only), discontinuity, types of discontinuity.	Virtual Lecture	05	10/11/2020-18/11/2020	Unit test
2.	Differentiations: Derivative of a function, derived function, derivability implying continuity, geometrical interpretation of a derivative, hyperbolic functions, derivatives of hyperbolic and inverse hyperbolic functions, logarithmic differentiation, derivative of implicit functions	Virtual Lecture	05	19/11/2020-28/11/2020	Tutorial
	Successive Differentiation: Higher order derivatives, calculation of n^{th} derivatives, some standard results, determination of n^{th} derivative of rational functions, the n^{th} derivatives of the products of the powers of sines and cosines, Leibnitz's theorem: n^{th} derivative of the product of two functions	Virtual Lecture	10	01/12/2020-18/12/2020	Seminar Unit test
3.	Mean Value Theorems: Rolle's theorem, Lagrange's mean value theorem, meaning of the sign of the derivative, Cauchy's mean value theorem, higher derivatives, Taylor's theorem, Maclaurin's theorem, Maclaurin's power series for a given function.	Virtual Lecture	05	19/12/2020-30/12/2020	Tutorial
	Partial Differentiation: Functions of two variables, limit of a function of two variables, continuity of a function of two variables at a point, limit of a continuous function, partial derivatives, partial derivatives of higher order, homogeneous function, Euler's theorem on homogeneous function, total differentials, differentiation of composite function and implicit function	Virtual Lecture	10	01/02/2021-13/02/2021	Tutorial Unit test
	Prerequisite: Scalar product of two vectors, sign of the scalar product, length of a vector as a scalar product, angle between two vectors, commutativity, distributivity, right handed and left handed vector triads, vector product, some properties of vector product, scalar triple product, distributive law, some properties of scalar triple product, vector triple product	Lecture	05	15/02/2021-22/02/2021	
	Differential Operators: Point functions: scalar valued point functions, vector valued point functions, limits and continuity, directional derivatives, Cartesian representation of point functions and their directional derivatives, directional derivatives of point functions along co-ordinate axes and along any line, gradient of a scalar point function, character of gradient as a point function, the operator ∇ , operator $\text{a. } \nabla$, divergence and curl, gradient, divergence and curl of sums and product	Lecture	15	23/02/2021-03/03/2021	Unit test

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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan

Academic Year (2020-2021)

Class: B.Sc. Second Year

Department of **Mathematics**

Paper No. : **MAT 301**

Name of Faculty: **Dr. J. A. Nanware**

Paper Name : **Number Theory**

Chap. No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1.	Divisibility Theory in the integers: The Division Algorithm, The greatest common divisor, The Euclidean algorithm, The Diophantine equation $ax+by=c$.	Virtual Lecture	15	04/08/2020-31/08/2020	Unit test
2.	Primes and their distribution: The fundamental theorem of arithmetic	Virtual Lecture	10	01/09/2020-16/09/2020	Tutorial Unit test
3.	The theory of congruences : Basic properties of congruences, Linear congruences	Virtual Lecture	10	18/09/2020-30/09/2020	Tutorial
4.	Fermat's theorem: Fermat's factorization theorem, the Little theorem, Wilson's theorem	Virtual Lecture	10	01/10/2020-14/10/2020	Unit test
5.	Number –Theoretic functions: The functions τ and σ , The Mobius inversion formula	Virtual Lecture	07	21/11/2020-28/11/2020	Seminar Unit test
6.	Euler's generalization of Fermat's Theorem: Euler's Phi-function, Euler's theorem, Some properties of Phi function.	Virtual Lecture	08	01/12/2020-30/12/2020	Unit test

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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan -Academic Year (2020-2021)

Class: B.Sc. Second Year

Department of Mathematics

Name of Faculty: Dr.J. A. NANWARE

Paper No.: MAT 303

Paper Name: Mechanics-I

Chap. No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration (Date / Month/ Year)	Remarks
1	Forces acting on a particle: Particle, Rigid body, force, The force as a vector, Equilibrium, An axiom for equilibrium of two forces, Statics, Resultant of forces, Law of parallelogram of forces, Principle of the transmissibility of force, Deductions, Resultant of forces m.OA and n.OB, Components and Resolved Parts, the algebraic sum of resolved parts of two forces, To find the magnitude and direction of the resultant of any number of coplanar forces acting at a point, Resultant of parallel forces.	Lecture	20	15/08/2020-31/10/2020	Unit test/ Seminar
2	Equilibrium of Forces acting on a Particle: Triangle law of forces, Converse of the Triangle law of forces, Polygon of forces, Lami's theorem, Conditions of equilibrium of forces acting on a particle.	Lecture	12	02/11/2020-20/11/2020	Tutorial Unit test
3	Forces acting on a Rigid Body: Introduction, Moment of a force, Sum of vector moments of two like parallel forces, Couples, Conditions of equilibrium of forces acting on a rigid body, Trigonometrical theorems.		08	01/01/2021-18/01/2021	
4	Centre of Gravity: Centroid of weighted points, Centre of gravity, Centre of gravity of some uniform bodies		10	19/01/2021-27/02/2021	

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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Academic Year (2020-2021)

Class: B.Sc. Third Year

Department of Mathematics

Paper No.: – MAT-504

Name of Faculty: Dr. J.A. Nanware

Paper Name: Ordinary Differential Equations-I

Chap. No. Unit No.	Title / Subject	Method of Teaching	No. of Periods	Duration Date / Month/ Year	Remarks
1	Preliminaries:				
	Introduction, Complex numbers, functions, polynomials	Virtual Lecture	05	04/08/2020- 08/08/2020	
	Complex series and the exponential function	Virtual Lecture	06	10/08/2020- 18/08/2020	
	Determinants	Virtual Lecture	04	19/08/2020- 25/08/2020	Unit test
2	Linear equations of the first order:				
	Introduction, differential equations, problems associated with differential equations	Virtual Lecture	15	27/08/2020- 15/09/2020	
	Linear equations of the first order, The equation $y' + ay = 0$, The equation $y' + ay = b(x)$	Virtual Lecture	10	16/09/2020- 30/09/2020	Unit test
3	Linear equations with constant coefficients:				
	Introduction, The second order homogeneous equation, Initial value problems for second order equations	Virtual Lecture	10	01/10/2020- 16/10/2020	Seminar
	Linear dependence and independence, A formula for the Wronskain, The nonhomogeneous equation of order two, The homogeneous equation of order n	Virtual Lecture	10	17/10/2020- 31/10/2020	Seminar Unit test

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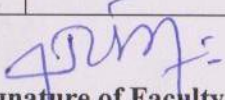
SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan
Academic Year (2020-2021)
Class: B.Sc. First Year

Department of **Mathematics**
Paper No.: **MAT 201**

Name of Faculty: **Dr.J. A. NANWARE**
Paper Name: **Integral Calculus**

Chap. No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1.	Methods of Integration: Reduction formulae.	Lecture	07	05/04/2021-19/04/2021	Unit test
	Integration of Algebraic Rational Functions: Case of non-repeated linear factors, Case of non-repeated linear or repeated linear factors, Case of linear or quadratic non-repeated factors		10	20/04/2021-05/05/2021	
	Integration of Trigonometric Functions: Integration of $\sin^n x$, $\cos^n x$ and reduction formulae for integration of $\sin^n x$, $\cos^n x$	Lecture	10	06/05/2021-19/05/2021	Unit test
	Definite Integral as the Limit of a sum: Introduction, fundamental theorem.		08	20/05/2021-31/05/2021	
2.	Areas of Plane Regions: Areas of region bounded by a curve, x-axis and two ordinates	Lecture	05	01/06/2021-30/06/2021	Tutorial Unit test
	Rectification, Length of Plane Curves: Introduction, expression for lengths of curves $y=f(x)$, expressions for lengths of arc $x=f(y)$; $x=f(t)$, $y=\phi(t)$; $r=f(\theta)$.		05		
3.	Volumes and Surfaces of Revolution: Introduction, expressions for the volume obtained by revolving about either the axis	Lecture	15	01/07/2021-31/07/2021	Unit test
	Integral Transformation: Introduction, line integrals, circulation, irrotational vector point functions, surface integrals, volume integrals, reduction of volume to surface integral, physical interpretation of Gauss theorem, reduction of surface to line integrals, condition for irrotational vector functional, Green's theorem.				


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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year (2020-2021)

Class: **B.Sc. Second Year**

Department of **Mathematics**

Paper No.: **MAT 401**

Name of Faculty: **Dr.J. A. NANWARE**

Paper Name: **Numerical Methods**

Chap.No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date / Month/ Year	Remarks
1	Solution of Algebraic and Transcendental Equations: Introduction, Bisection method, Method of False position, Newton-Raphson method, Generalized Newton's method	Lecture 05 PSS 05	10	05/04/2021-20/04/2021	Seminar
2	Interpolation: Introduction, Finite Differences, Forward differences, Backward differences, Central differences, Symbolic relations and separation of symbols, Differences of a polynomial, Newton's formulae for interpolation, Interpolation with unevenly spaced points, Lagrange's interpolation formula, Hermite's interpolation formula, Divided differences and their properties, Newton's general interpolation formula	Lecture 07 PSS 08	15	22/04/2021-03/05/2021	Unit test
3	Curve Fitting and Approximations: Introduction, Least-Squares curve fitting procedures, fitting a straight line, nonlinear curve fitting, Applications of functions, Chebyshev polynomials, Economization of power series.	Lecture 05 PSS 05	10	04/05/2021-11/05/2021	Unit test
4	Solution of Linear System of Equations: Solution of linear systems-direct methods, Gaussian elimination method, Method of factorization, Solution of Linear systems-iterative methods, The Eigenvalue problem, Householder's method, Eigenvalues of a symmetric tridigonal matrix, The QR method	Lecture 07 PSS 08	15	18/05/2021-25/05/2021	Tutorial
5	Numerical Solution of Ordinary Differential Equations: Introduction, Solution by Taylor's series method, Picard's method of successive approximations, Euler's method, Runge Kutta methods.	Seminar 05 PSS 05	10	27/01/2021-31/05/2021	Tutorial Unit test

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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan Academic Year (2020-2021)

Class: **B.Sc. Second Year**
Paper No.: **MAT 403**

Department of **Mathematics**

Name of Faculty: **Dr.J. A. NANWARE**
Paper Name: **Mechanics-II**

Chap.No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date / Month/ Year	Remarks
1	Kinematics and Dynamics of a particle in Two Dimensions: Introduction, Definitions, Velocity and acceleration in terms of vector derivatives, Tangent and unit vector along the tangent, Rate of change of unit vector moving in a plane, Curvature principal normal, Tangential and normal components of velocity and acceleration, Angular speed and angular velocity, Radial and transverse components of velocity and acceleration, Areal speed and velocity.	Lecture 07 PSS 08	15	01/06/2021-10/06/2021	Unit test
2	Kinetics of a Particle: Introduction, Newton's law of motion, Matter, Linear momentum, Angular momentum, An impulsive force and its impulse, Conservation of linear momentum, Impact of two bodies, Work, Energy, Scalar point function, Vector point function, Field of force, Conservative field of force	Lecture 05 PSS 05	10	11/06/2021-18/06/2021	Seminars (02)
3	Motion of a Projectile and Motion in a Resisting Medium: Rectilinear motion, Motion under gravity, Projectile, Motion of Projectile, Range on an inclined Plane, Parabola of Safety, Projectile to pass through a given point, Motion in a resisting medium, Motion of a body moving under gravity and in a medium whose resistance varies as velocity	Lecture 05 PSS 05	15	19/06/2021-10/07/2021	Tutorial
4	Central Orbits: Definitions, Areal Velocity in Central Orbit, Differential Equation of Central Orbit, Apses, Law of force, Pedal equation of some curves	Lecture 05 PSS 05	10	12/07/2021-31/07/2021	Unit Test

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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Teaching –Plan
Academic Year (2020-2021)
Class: B.Sc. Third Year

Department of Mathematics

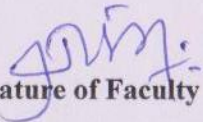
Name of Faculty: Dr. J.A.Nanware


Paper No.: – MAT -604

Paper Name: Ordinary Differential Equations-II

Chap. No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1	Linear equations with variable coefficients: Introduction, Initial Value problems for the homogeneous equation, Solutions of the homogeneous equation. The Wronskian and linear independence	Lecture PSS	10	05.04.2021 to 19.04.2021	Unit test
1	Reduction of the order of a homogeneous equation, The non-homogeneous equation, Homogeneous equations with analytic coefficients, The Legendre equation	Lecture PSS	20	20.04.2021 to 31.05.2021	Group discussion Unit test
2	Linear Equations with Regular Singular Points: Introduction, The Euler Equation, Second order equations with regular singular points (An example)	Lecture PSS	20	01.06.2021- 10.07.2021	Seminar Unit test
2	Second order equations with regular singular points-general case, The Bessel equation.	PSS /LCD	10	12.07.2021- 07.08.2021	Unit test

PSS-Problem Solving Session


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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI.

Teaching Learning Academic Plan 2020-21


Faculty of Science
Department of Mathematics
Paper No. :- MAT – 401

Class :- M.Sc.-I (Sem-I)

Name of Teacher :- Shanediwan K. R.

Paper Name :- Advanced Abstract Algebra – I

Unit No.	Title/Subject	Method of Teaching	No. of Periods	Duration	Remarks
1	Binary relation, binary operation, function, group, subgroup and their properties. Order of a group, element and a subgroup Generator, cyclic group, Lagranges theorem, Fermats and Eulers theorem and their consequences	Lecture (Online)	15	Nov-20	
2	Normal subgroup, quotient group and their properties and axamples. Homomorphism, kernel, image of a homomorphism. Isomorphism and related theorems, Fundamental theorem of group homomorphism, automorphism, conjugacy and G-sets.	Lecture (Online)	15	Dec-20	
3	Permutation groups and related concepts and results. Center, normalizer, commutator of a group, derved group, Cayles theorem	Lecture (Online)	15	Dec-20, Jan-21	
4	Normal series, solvable and nilpotent group and their properties, direct products, simplicity of alternating group	Lecture (Online)	15	Jan-21, Feb-21	
5	Fundamental theorem of finitely generated abelian group, invariants of finite abelite abelian group, Sylow theorems and applications	Lecture (Online)	15	Feb-21	


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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI.


Teaching Learning Academic Plan 2019-20 - 2\

Faculty of Science
Department of Mathematics
Paper No. :- MAT – 404

Class :- M.Sc.-I (Sem-I)
Name of Teacher :- Shanediwan K. R.
Paper Name :- Complex Analysis- I

Unit No.	Title/Subject	Method of Teaching	No. of Periods	Duration	Remarks
1	The Complex number system : The field of complex numbers, The complex plane, Rectangular and polar representation of complex numbers; Intrinsic function on the complex field; The Complex plane	Lecture (Online)	15	Nov-20	
2	Metric spaces and Topology of C : Definition and examples of metric spaces; connectedness; sequence and completeness; compactness; continuity; Uniform convergence	Lecture (Online)	15	Dec-20	
3	Elementary properties and examples of Analytic functions : Power series; The exponential function; Trigonometric and hyperbolic functions; Argument of nonzero complex number; Roots of unity; Branch of logarithm function. Analytic functions; cauchy Riemann Equations; Harmonic function	Lecture (Online)	15	Dec-20, Jan-21	
4	Analytic functions as a mapping; Mobius transformations; linear transformations; The point at infinity; Bilinear transformations, Complex Integration: power series representation of analytic functions; zeros of an analytic function.	Lecture (Online)	15	Jan-21, Feb-21	
5	Fundamental theorem of finitely generated abelian group, Invariants of finite abelian group, Sylow theorems and applications	Lecture (Online)	15	Feb-21	


Signature of Teacher


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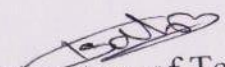
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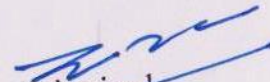
Teaching Learning Academic Plan 2019-20²⁰⁻²¹

Faculty of Science
Department of Mathematics
Paper No. :- MAT – 502

Class :- M.Sc.-II (Sem-III)
Name of Teacher :- Shanediwan K. R.
Paper Name :- PDE

Unit No.	Title/Subject	Method of Teaching	No. of Periods	Duration	Remarks
1	Examples of Partial Differential Equations Classification of second order Partial Differential Equations. Transport equation – Initial value problem Non-homogeneous equations. Laplace's equation- Fundamental solution, Poisson's equation, Mean value formulas, Properties of Harmonic functions	Lecture (Online)	15	Nov-20	
2	Laplace's Equation, Strong maximum principle, Strong minimum principle, uniqueness, Regularity, Local estimates for harmonic functions Green's function, Derivation of Green's function, Green's function for half space, Green's function for a ball, Energy methods, uniqueness	Lecture (Online)	15	Dec-20	
3	Heat Equation-fundamental solution, Initial value problem, Non-homogenous problem, Mean value formula, Properties of solutions, Strong maximum principle, uniqueness, Energy methods, Backwards uniqueness, Wave Equation – solution by spherical means	Lecture (Online)	15	Dec-20, Jan-21	
4	Non-homogeneous equations, Energy methods. Nonlinear first Order PDE- Complete Integrals, envelopes, new solutions from envelopes characteristics, Representation of solutions-separation of variables, Similarity Solutions, Plane and Traveling waves, solutions, similarity under scaling	Lecture (Online)	15	Jan-21, Feb-21	
5	Transformation Methods Fourier and Laplace Transform, Applications Converting Nonlinear into linear Partial Differential Equation cole-Hopf transformation, A parabolic Partial Differential Equation with quadratic non linearity Burger's equation with viscosity, Hodograph and Legendro Transforms, Potential function	Lecture (Online)	15	Feb-21	


Signature of Teacher


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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI.

Teaching Learning Academic Plan ~~2019-20~~ 20-21


Faculty of Science
Department of Mathematics
Paper No. :- MAT – 525

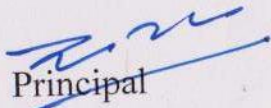
Class :- M.Sc.-II (Sem-III)

Name of Teacher :- Shanediwan K. R.

Paper Name :- Lattice Theory

Unit No.	Title/Subject	Method of Teaching	No. of Periods	Duration	Remarks
1	Partially ordered sets, two definitions of Lattices, lattice as a poset, lattice as algebra, Hasse diagrams, planer and optimal Diagrams, meet and join tables, Homomorphism	Lecture (Online)	15	Nov-20	
2	Isotone maps, sub lattices, ideals and their characterizations congruence relations, congruence lattices, the homomorphism theorem, product lattices, ideal Lattice, complete lattice and their properties.	Lecture (Online)	15	Dec-20	
3	Distributive and modular inequalities and identities, complements and pseudo complements Demorgan's identities, Boolean lattice of pseudo complements, meet and join-irreducible elements, characterization theorems and representation theorems Dedikinds modularity criterion, Birkhoff's distributivity criterion (proofs without using free lattices)	Lecture (Online)	15	Dec-20, Jan-21	
4	Hereditary subsets, ring of sets, Stone theorems, Nachbin theorem Distributive joinsemi lattices and characterization, Distributive lattices with pseudocomplementation	Lecture (Online)	15	Jan-21, Feb-21	
5	Join infinite distributive identify, algebraic lattices stone algebra and its characterizations. Distributive standard and neutral elements	Lecture (Online)	15	Feb-21	


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Teaching Learning Academic Plan ~~2019-20~~²⁰⁻²¹


Faculty of Science
Department of Mathematics
Paper No. :- MAT – 411


Class :- M.Sc.-I (Sem-II)

Name of Teacher :- Shanediwan K. R.

Paper Name :- Advanced Abstract Algebra– II

Unit No.	Title/Subject	Method of Teaching	No. of Periods	Duration	Remarks
1	Preliminaries of rings, definition, types, subring, ideal, prime, maximal ideas, nil, nilpotent ideals and their properties. Quotient ring, Homomorphism, isomorphism and related results. UFD, PID, Euclidean domain, polynomial rings and their properties	Lecture	15	April-21	
2	Vector spaces, subspaces, generating set, linear dependence and independence, basis and dimension, quotient space, homomorphism, dual space, inner product space and modules	Lecture	15	May-21	
3	Liner transformation and their properties, characteristic roots, triangular canonical form	Lecture	15	May, June-21	
4	Extension fields, irreducible polynomials, algebraic extension and their properties, splitting field, normal extension, multiple roots, finite fields, separable extension	Lecture	15	June, July-21	
5	Automorphism groups, fixed field, fundamental theorem of Galois theory, polynomials solvable by radicals, ruler and compass constructions	Lecture	15	July, Aug-21	


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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI.

Teaching Learning Academic Plan ~~2019-20~~ 20-21

Faculty of Science

Department of Mathematics


Paper No. :- MAT – 414

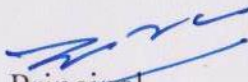
Class :- M.Sc.-I (Sem-II)

Name of Teacher :- Shanediwan K. R.

Paper Name :- Complex Analysis– II

Unit No.	Title/Subject	Method of Teaching	No. of Periods	Duration	Remarks
1	Compactness and convergence in the space of Analytic functions: Spaces of analytic functions; The weierstrass factorization theorem; factorization of the sine function; The gamma function; The Riemann zeta function	Lecture	15	April-21	
2	Harmonic functions: Basic properties of Harmonic functions and comparison with analytic function; Harmonic functions on a disk; Poisson integral formula; positive harmonic functions	Lecture	15	May-21	
3	Entire functions; Jensen's formula; The Poisson-Jenson formula; The genus and order of an entire function, Hadamard Factorization Theorem	Lecture	15	May, June-21	
4	Univalent functions; the class S; the class T; Bieberbach conjecture; sub class of s	Lecture	15	June, July-21	
5	Analytic continuation: Basic concepts; special functions	Lecture	15	July, Aug-21	


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Tq. Omega Dist. Osmanabad


SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI.


Teaching Learning Academic Plan ~~2019-20~~ 20-21

Faculty of Science
Department of Mathematics
Paper No. :- MAT – 512

Class :- M.Sc.-II (Sem-IV)
Name of Teacher :- Shanediwan K. R.
Paper Name :- Mechanics

Unit No.	Title/Subject	Method of Teaching	No. of Periods	Duration	Remarks
1	Mechanics of system of particles, generalized coordinates, Holonomic & nonholonomic system, Scleronomic & Rheonomic system, D' Alembert's principle and Lagrange's equation of motion, different forms of Lagrange's equation, Generalized potential, conservative fields and its energy equation, Application of Lagrange's formulation	Lecture	15	April-21	
2	Functionals, Linear functionals, Fundamental lemma of Calculus of Variations simple variational problems, The variation of functional, the extremum of functional, necessary condition for extreme, Euler's equation, Euler's equation of several variables, invariance of Euler's equation, Motivating problems of calculus of variation, Shortest distance, Minimum surface of revolution, Brachistochrone Problem, Isoperimetric problem	Lecture	15	May-21	
3	The fixed end point problem for 'n' unknown functions, variational problems in parametric form, Generalization of Euler's equation to (i) 'n' dependent functions (ii) higher order derivatives. Variational problems with subsidiary conditions	Lecture	15	May, June-21	
4	Hamilton's principle, Hamilton's canonical equations, Lagrange's equation from Hamilton's principle Extension of Hamilton's Principle to nonholonomic systems, Application of Hamilton's formulation (Hamiltonian) cyclic coordinates & conservation theorems, routh's procedure, Hamilton's equations from variational principle, The principle of least action	Lecture	15	June, July-21	
5	Two-dimensional motion of rigid bodies. The independent coordinates of a rigid body, Orthogonal transformations, Properties of transformation matrix, The Euler angles, Cayle-klein parameters & related quantities, Euler's dynamical equation for the motion of rigid body	Lecture	15	July, Aug-21	


Signature of Teacher


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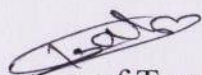
SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI.

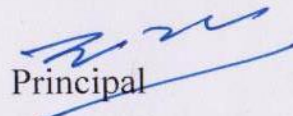
Teaching Learning Academic Plan-2019-20 20-21

Faculty of Science
Department of Mathematics
Paper No. :- MAT – 534

Class :- M.Sc.-II (Sem-IV)
Name of Teacher :- Shanediwan K. R.
Paper Name :- Fuzzy Mathematics

Unit No.	Title/Subject	Method of Teaching	No. of Periods	Duration	Remarks
1	Specific objectives: To introduce the theory of fuzzy sets as a measure of uncertainty and a ambiguity. Also to introduce fuzzy and fuzzy logic and different operations on them	Lecture	15	April-21	
2	From classical (crisp) sets to fuzzy sets; Introduction: crisp sets: An overview; Basic concepts in fuzzy sets; convex fuzzy sets (Theorems and exercises)	Lecture	15	May-21	
3	Fuzzy sets versus crisp sets: Additional properties of α - cuts; Representation of fuzzy sets; Decomposition Theorems. Operations on Fuzzy sets; Types of operations; Fuzzy complement (Axioms and theorems)	Lecture	15	May, June-21	
4	Fuzzy intersections: t- norms; fuzzy unions: t – co norms; Combinations of operations; Aggregation of operations	Lecture	15	June, July-21	
5	Fuzzy Arithmetic: fuzzy numbers; Linguistic Variables; Arithmetic operations on intervals of real numbers; Arithmetic operations on fuzzy numbers	Lecture	15	July, Aug-21	


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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Academic Calendar For 180 Days

Faculty of Deshmukh. H.B.

Academic Year: (2021-22)

(Department of Geography)


Name of Faculty Member: _____

Term	Month	Working days	Theory Periods			Practical Periods	Total Periods
			I	II	III		
First Term	November	22	-	-	04	08	12
	December	26	16	16	18	20	72
	January	24	20	14	14	16	64
	February	23	14	16	16	16	62
	March	06	04	04	04	04	16
Total 1		101	54	52	56	64	226
Second Term	April	20	14	12	12	16	54
	May	23	12	16	16	16	60
	June	26	16	18	18	16	68
	July	26	20	16	16	20	72
	August	06	04	04	04	04	16
Total 2		101	66	66	66	72	270
Total 1 + 2		202	120	118	122	136	496

Total Working Days = 202

Total Theory Periods = 360

Total Practical Periods = 136


Signature of Faculty Member
H.B. Deshmukh



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2010 -2021)

Faculty : Arts / Science Department : Geography Class : B.A./B.Sc. / M.A./ M.Sc.

Semester : II Paper No : 502 Paper Name : સામાજિક ભૂગણિત

Name Of Faculty : H.B. Geshmullh

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
<u>I</u>	<u>સામાજિક ભૂગણિત, અર્થશાસ્ત્ર, શિક્ષણ</u> <u>અભિવૃદ્ધિ</u>	<u>અભિવૃદ્ધિ</u>	<u>25</u>	<u>સપ્ટેમ્બર</u> <u>2020-21</u>	
	<u>સામાજિક ભૂગણિત, સ્ત્રીશક્તિ, સામાજિક સુધારાકારી</u> <u>સામાજિક-સંસ્કારકારી, સૌજન્ય સમાચાર</u>	<u>અભિવૃદ્ધિ</u>	<u>25</u>	<u>સપ્ટેમ્બર-2020</u>	
<u>II</u>	<u>સામાજિક ભૂગણિત, વાતાવરણ, વાતાવરણ</u> <u>અને સ્ત્રીશક્તિ</u>	<u>અભિવૃદ્ધિ</u>	<u>25</u>	<u>ઓક્ટોબર-2021</u>	
<u>III</u>	<u>સામાજિક ભૂગણિત, સામાજિક, સામાજિક</u> <u>સુધારકારી,</u>	<u>અભિવૃદ્ધિ</u>	<u>25</u>	<u>ઓક્ટોબર</u> <u>2021</u>	
	<u>સામાજિક, સામાજિક સુધારકારી</u> <u>સામાજિક, સામાજિક સુધારકારી,</u>	<u>અભિવૃદ્ધિ</u>	<u>20</u>	<u>નવેમ્બર</u> <u>2021</u>	
<u>IV</u>	<u>સામાજિક સુધારકારી</u>	<u>અભિવૃદ્ધિ</u>	<u>1</u>		

H.B. Geshmullh
Signature of Faculty

H.B. Geshmullh
Principal
Shrikrishna Mahavidyalaya Gunjoti



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2010-2011)

Faculty : Arts / Science

Department : Geography

Class : B.A./B.Sc. / M.A./ M.Sc.

Semester : II

Paper No : 402

Paper Name : परिचय

Name Of Faculty : _____

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
I	परिचय - उत्पत्ति, विकास -	परिचय	15	जुलाई	
	परिचय परिभाषा एक - सामाजिक, आर्थिक -	"	15	सितंबर	
	सांस्कृतिक एक				
II	परिचय - सामाजिक विकास - जनक, उत्पत्ति	"	15	सितंबर - 2011	
	जनक, सांस्कृतिक जनक, विकास, आर्थिक विकास	"			
	परिचय.			नवंबर - 2011	
	सांस्कृतिक परिचय - विकास एक	"	15		
III	सांस्कृतिक, ऐतिहासिक एक, आर्थिक, सामाजिक	"			
	सांस्कृतिक विकास - परिचय एक	"		नवंबर - 2011	
	सांस्कृतिक - परिचय विकास	"			
IV	परिचय - सामाजिक विकास, जनक -	"	20	जुलाई	
	परिचय विकास	"			

Signature of Faculty 16

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SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2011-2012)

Faculty : Arts / Science

Department : Geography Class : B.A./B.Sc. / M.A./ M.Sc.

Semister : III

Paper No : 606 Paper Name : સામાજિક ભૂગોળ

Name Of Faculty : Mrs. Deshmukh.

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
I	ભૂગોળ-પર્યાવરણ, ભૂગોળ	અભિવ્યક્ત	15	સપ્ટેમ્બર-2010	
	ભૂગોળ, ભૂગોળ, ભૂગોળ, ભૂગોળ	"			
	સુસંગત. ભૂગોળ-સુસંગત, સુસંગત & ભૂગોળ	"	15	ડિસેમ્બર-2010	
II	ભૂગોળ ભૂગોળ, ભૂગોળ, ભૂગોળ	"	15	જાન્યુઆરી-2011	
III	ભૂગોળ-ભૂગોળ ભૂગોળ, ભૂગોળ	"			
	ભૂગોળ ભૂગોળ. ભૂગોળ-ભૂગોળ	"	15	ફેબ્રુઆરી	
	ભૂગોળ ભૂગોળ ભૂગોળ, ભૂગોળ	"			
	ભૂગોળ, ભૂગોળ.				
IV	ભૂગોળ ભૂગોળ, ભૂગોળ	"	20	માર્ચ-2011	
	ભૂગોળ-ભૂગોળ				

Signature of Faculty

Principal
Shrikrishna Mahavidyalaya, Gunjoti



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2010-2011)

Faculty : Arts / Science Department : Geography Class : B.A./B.Sc. / M.A./ M.Sc.

Semester : II Paper No : _____ Paper Name : भारत के भू-विज्ञान

Name Of Faculty : Ms. Deshmukh

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
I	भारत का भू-विज्ञान, भारत का भू-चित्र, भारत का भू-संसाधन.	चर्चा	15	जुलै - 2011	
	भारत का भू-संसाधन, भारत का भू-संसाधन का विकास.	"			
	भारत का भू-संसाधन, भारत का भू-संसाधन का विकास.	"	15	अगस्त - 2011	
	भारत का भू-संसाधन.	"			
II	भारत का भू-संसाधन, भारत का भू-संसाधन का विकास.	"	15	सितंबर - 2011	
	भारत का भू-संसाधन, भारत का भू-संसाधन का विकास.	"			
	भारत का भू-संसाधन, भारत का भू-संसाधन का विकास.	"	15		
	भारत का भू-संसाधन.	"			
III	भारत का भू-संसाधन, भारत का भू-संसाधन का विकास.	"	20	अक्टूबर - 2011	
	भारत का भू-संसाधन, भारत का भू-संसाधन का विकास.	"			
	भारत का भू-संसाधन, भारत का भू-संसाधन का विकास.	"			
	भारत का भू-संसाधन, भारत का भू-संसाधन का विकास.	"			
	भारत का भू-संसाधन - भारत का भू-संसाधन का विकास.	"			

Signature of Faculty Hs

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Shrikrishna Mahavidyalaya, Gunjoti



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2021-2022)

Faculty : Arts / Science Department : Geography Class : B/A./B.Sc. / M.A./ M.Sc.

Semester : IV Paper No : 507 Paper Name : વસ્તી-વ્યવસ્થા

Name Of Faculty : Ms. Peshmala

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
I	માનવો વસ્તી, સ્વામી, વસ્તી-વ્યવસ્થા	concentrat	25	10/11/2021	
	વસ્તીનો યાદ, વસ્તીના, વિસ્તાર.	"			
	ગુણવત્તા, વસ્તી-સંખ્યા,	"	15	જાન્યુ.	
	સામાજિક વ્યવસ્થા, યાદ, વસ્તી-વ્યવસ્થા	"			
II	વસ્તી-સંખ્યા વ્યાજ, સ્વામી, સ્ત્રીઓ	"	15	જુન-2021	
	વસ્તી-સંખ્યા, વસ્તી	"			
	માનવવસ્તી - વસ્તી વિસ્તાર.	"			
	માનવવસ્તી નિયંત્રણ વ્યવસ્થા.	"			
III	વસ્તી વ્યાજ, માનવો વસ્તી-વ્યવસ્થા વિસ્તાર.	"		જાન્યુ.	
	1) વસ્તીનો વિસ્તાર.	"	10	જાન્યુ.	
	2) વિસ્તારનો વિસ્તાર.	"			
	3) વિસ્તારનો વિસ્તાર.	"	15	જાન્યુ.	
IV	વસ્તી વ્યાજ વિસ્તાર	"			

Signature of Faculty

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Shrikrishna Mahavidyalaya Gunjoti



SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Annual Teaching - Plan Academic Year (2011-2012)

Faculty : Arts / Science Department : Geography Class : B.A./B.Sc. / M.A./M.Sc.
 Semester : IV Paper No : _____ Paper Name : प्रादेशिक भूगोल
 Name Of Faculty : M.B. Deshmukh

Chapter No. Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration Date/Month/year	Remark
I	क्षेत्र सर्वेक्षण, नदीयुक्त क्षेत्र, सांख्यिक नदीयुक्त	अवलोकन	20	सितंबर 2011	
	सर्वेक्षण नदीयुक्त - नदीयुक्त	"	20	दिसंबर 2011	
	सर्वेक्षण नदीयुक्त - उपनगर	"			
II	नदीयुक्त नदीयुक्त, नदीयुक्त, नदीयुक्त नदीयुक्त, नदीयुक्त नदीयुक्त	"	20	मार्च अप्रैल 2012	
III	नदीयुक्त नदीयुक्त, नदीयुक्त नदीयुक्त, (नदीयुक्त, नदीयुक्त) (1) नदीयुक्त नदीयुक्त	"	15	"	
IV	प्रादेशिक -	"		"	

Signature of Faculty

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SHRIKRISHNA MAHAVDYALAYA, GUNJOTI

Academic Calendar for 180 Days

Faculty of Social Science

Academic Year (2020-21)

Department of Geography

Name of Faculty Member: **Dr.K. L. Kadam**

Term	Month	Working Days	Theory Periods MA I + II	Practical Periods MA I+ II	Total
First Term	Nov	22	29	-	29
	Dec	26	33	-	<u>33</u>
	Jan	24	35	-	<u>35</u>
	Feb	23	16 + 30	24	<u>70</u>
	March	06	17 + 08	27	<u>52</u>
Total 1		101	139	51	= 190
Second Term	April	20	27 + 14	21	62
	May	23	24 + 16	15	55
	June	26	34 + 18	27	79
	July	26	36 + 18	-	54
	August	06	44 + 16	-	60
Total 2		101	247	63	= 310
Total 1+2		202	386	114	= 500

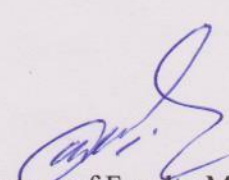
Total Working Days = 180

Total Teaching Days = 202

Total Theory Period = 386

Total Practical Periods = 144

Total periods T+P = 500

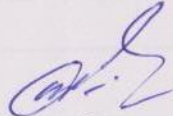

Signature of Faculty Member


SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI.

Annual Teaching-Plan Academic Year (2020-2021)

Faculty: Social Science Subject: MA I Geography Paper No. : 403 Name of the Paper: Geomorphology Marks:80

Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration Date	Remarks
I	Definitation, Nature & Scope of Geomorphology, Fundamental concepts in Geomorphology, Uniformitarianism Co- relationship of the Subject with human settlement and Transportation.	Lecturer, Group Discussion, Map ,Chart	10	Feb- 2021	
II	Earth Movement- Epirogenic, Orogenic Movement, Continental Drift Theory; plate Tectonic, Theory of Isostacy.	----do-----	06	Feb - 2021	
III	Earthquake and Volcanoes Causes & Effect, Land Features formed by Earthquake & Volcano with Geographical Distribution.	----do-----	08	March- 2021	
III	Weathering Its Types of and Effects.	----do-----	02	March - 2021	
IV	Geomorphologic Processes- Fluvial, Glacial, Karts, and Processes & resulting land forms.	----do-----	07	March - 2021	


Signature of Teacher

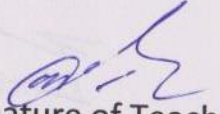

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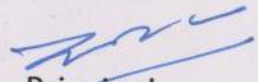
SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI.

Annual Teaching-Plan Academic Year (2020-2021)

Faculty: Social Science Subject: MA I Geography Paper No. :451 Name of the Paper: Practical Geog. Marks: 80

Ch/ Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration Date	Remarks
I	Geomorphology: a) Profile – Serial, Superimposed, Projected & Composite. b) Slope Method: Degree, Gradient, Percentage, Mills..	Map ,Chart	20	Feb- 2021	
II	Method of Slope Analysis:-i) C.K.Winthouworth's ii) G.H.Smiths iii) Robinson Dot Method	----do-----	04	Feb - 2021	
III	Climatology: a) Drawing of ISO line. b) Superimposed Columnar Diagram. c) Compound Columnar Diagram d) Ergograph e) Climatograph f) Wind Rose & Star Diagram.	----do-----	18	March- 2021	
IV	Introduction to Geographic Information Systems, Raster Model, Vector Model, Application of GIS in Geography.	----do-----	09	March - 2021	
V	Journal and Via-Voce			April - 2021	


Signature of Teacher

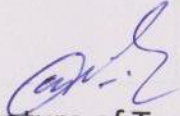

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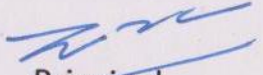
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Annual Teaching-Plan Academic Year (2020-2021)

Faculty: Social Science Subject: MA I Geography Paper No. : 403 Name of the Paper: Oceanography Marks: 80

Ch/ Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration Date	Remarks
I	Definition and scope of oceanography influence of oceans on climate, food resources, ecosystem and politics.	Lecturer ,Group Discussion ,Map ,Chart	11	April - 2021	
II	The depth of Oceans- continental shelf, slope, deep sea plains and oceanic Deeps	----do-----	12	May 2021	
III	Temperature, Salinity of oceanic water, classification of marine deposits.	----do-----	18	June-2021	
IV	Coral reefs. Major theories of origin of coral reefs.	----do-----	16	July-2021	
V	Movement of Oceanic water. Sea waves, Tides and ocean currents, Reasons for the formation of ocean currents. Surface currents of pacific, Atlantic and Indian Ocean, Effect of ocean currents	----do-----	28	Aug-2021	


Signature of Teacher


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Principal

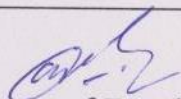
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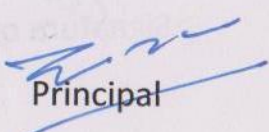
SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI.

Annual Teaching-Plan Academic Year (2020-2021)

Faculty: Social Science Subject: MA I Geography Paper No. : 404 Paper: Geog.of water Resources Marks: 80

Ch/ Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration Date	Remarks
I	Water as a natural resources and focus of geographical interest Inventory and distribution of world's water resources (surface and subsurface	Map ,Chart	16	April - 2021	
II	Water demands and use – Methods of estimation – agricultural and industrial uses of water. Irrigation method of distribution of the water to farms. Water harvesting techniques and water conservations.	----do-----	12	May 2021	
III	water resources management. General trends of water supply to the urban and rural areas in India. Internal navigation hydel power and recreation.	----do-----	16	June-2021	
IV	Water problems – pollution, logging, alkanity of soil. Food –structural and non structural adjustment of flood Hazards.	----do-----	20	July-2021	
V	Conservation and planning for the development of water resources. Social and institutional considerations use of surface and ground water resources. Watershed management. International and Interstate river water dispute	----do-----	16	Aug-2021	


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Annual Teaching-Plan Academic Year (2020-2021)

Faculty: Social Science Subject: MA IIGeography Paper No. : 405 Paper: Evolution of Geographical Thought Marks:80

Ch/ Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration Date	Remarks
I	The significance of Geography as a social and natural science. Selected concepts in the philosophy of Geography, distribution interaction areal differential and special organization.	Map ,Chart	15	Nov- 2020	
II	Dualism in Geography- Systematic and regional geography, physical and human geography. The myth and reality about dualism	----do-----	19	Dec- 2020	
III	The contribution of ancient Indian and Chinese scholars in the development of geography.	----do-----	15	Jan- 2021	
IV	Quantitative revolution, responses to positivism, behaviorism and post modernism.	----do-----	16	Feb- 2021	
V	Major contribution of selected scholars, discoverers in the development of geography. Alexander von Humboldt,Friedrich Ratzel ,Vidal de La blache,Ferdinand Magellan, Ferdinand Von Richthofen,Ellen Churchill semple ,Alfred Hettner,William Morris Davis,V. A. Anuchin ,Sir Dudly Stamp	----do-----	04	March - 2021	

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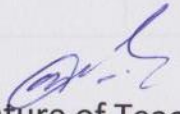
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Annual Teaching-Plan Academic Year (2020-2021)

Faculty: Social Science Subject: MA II Geography Paper No. : 425 Paper : Regional Geography of India Marks: 80

Ch/ Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration Date	Remarks
I	Basis of Regionalization of India, Physiographic, Climatic Geo-Political, Agro., historical, demographic, socio-economic dimensions.	Map ,Chart	14	Nov- 2020	
II	Distribution of soil and Natural Vegetation. Policy and Programmes.	----do-----	14	Dec- 2020	
III	Agriculture and Irrigation facilities, distribution and production of major crops. Agriculture policy and programmes in recent years.	----do-----	20	Jan- 2021	
IV	population as the human resource. Its distribution, population explosion, problems arised due to over population. Policies and programmes.	----do-----	14	Feb- 2021	
V	The case study of Mumbai Metropolitan Region, the sahyadris and chhatisgarh in detail.	----do-----	04	March- 2021	


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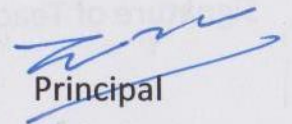
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Annual Teaching-Plan Academic Year (2020-2021)

Faculty: **Social Science** Subject: **MA II Geography** Paper No. : **427** Paper: **Bio-Geography** Marks: **80**

Ch/ Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration Date	Remarks
I	Scope, and development of Bio-Geography Environment. Habitant and Plant- animal association,	Map ,Chart	14	April- 2021	
II	Physical factors influencing world distribution of plants and animals; forms functions of ecosystem; Forest, Grassland, Marine and Mountain ecosystem	----do----	16	May 2021	
III	Bio-diversity and its depletion through natural and man induced.	----do----	18	June-2021	
IV	Human Ecology and environmental relationship.	----do----	18	July-2021	
V	Conservation and Management of ecosystems; Environmental hazards and problems of population; ozone depletion.	----do----	16	Aug-2021	


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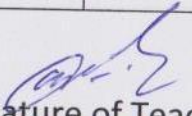
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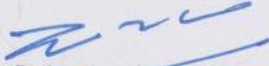
Annual Teaching-Plan Academic Year (2020-2021)

Faculty: **Social Science** Subject: **MA II Geography** Paper No. : **454** Paper: **Practical Geography**

Marks: **80**

Ch/ Unit No.	Title / Subject	Method of Teaching	No. Of Period	Duration Date	Remarks
I	Data sources and types of data. Statistical diagrams; study of frequency distribution and cumulative frequency.	Map ,Chart	21	April- 2021	
II	Measure of central tendency. Selection of class intervals for mapping.	----do-----	15	May 2021	
III	Measure of dispersion and concentration standard deviation.	----do-----	27	June-2021	
IV	Tour and Tour Report.			July-2021	
V	Viva-Voce and Journals.			Aug-2021	


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Teaching –Plan Academic Year 2020-2021

Class: B.Sc.

Department of Computer Science

Paper No.: CS01 (I Sem.)

Name of Faculty: Mr. I. S. Inamdar

Paper Name: Computer Fundamentals

Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1.	Fundamentals of Computer System: <ul style="list-style-type: none">• Introduction., Characteristics & features of Computers, Components of Computers.• Organization of Computer	Lecture	04	July	
	Algorithm: Definition, Characteristics, Advantages and disadvantages, Examples	Lecture	01	August	
	Flowchart: Definition, Define symbols of flowchart, Advantages and disadvantages Examples	Lecture	05	September	
	Generation of Computers : First to Fifth, Classification of Computers, Distributed & Parallel computers	Lecture	01	September	
2.	Computer Languages Types of Programming Languages <ul style="list-style-type: none">o Machine Languageso Assembly Languageso High Level Languages Assembler, Linker, Loader, Interpreter & Compiler	Lecture	02	November	
	Memory Cell & Organization Types of Memory (Primary And Secondary) RAM, ROM,PROM,EPRM, Secondary Storage Devices (FD, CD, HD, Pen drive, DVD, Tape Drive, DAT)	Lecture	13	July	
3.	<ul style="list-style-type: none">• Input Devices :<ul style="list-style-type: none">o Touch screen , OMR, OBR , OCR, Light pen• Output Devices :<ul style="list-style-type: none">o Scanners, Digitizers, Plotters, LCD, Plasma Display, Printers, Structure of Instruction, Description of Processor, Processor, Features, RISC & CISC	Lecture	03	August	
	Operating system Concepts				

<p>Why Operating System</p> <ul style="list-style-type: none"> • Functions of Operating System • Types of Operating System o Batch O.S. o Multiprogramming O.S. o Time Sharing O.S o Personal Computers O.S. o Network O.S. 	<p>Lecture</p>	<p>12</p>	<p>September</p>	
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Teaching –Plan Academic Year 2020-2021

Class: B.Sc.

Department of Computer Science

Paper No.: CS05 (II Sem.)

Name of Faculty: Mr. I. S. Inamdar

Paper Name: Programming in C

Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1.	Introduction: An Overview of C , History of C language, C as a Structured Language, Features of C.	Lecture	04	July	
2.	Basic Elements & Operators • Character set, C Token, Identifier & Keywords, Variables • Constant and its types. Integer constant, floating point constant, character constant, String constants. • Operators: Arithmetic, Relational, And Logical, Unary operators: Increment & decrement Assignment and Conditional operator. • Precedence & Associativity of Operators	Lecture	10	August	
3.	Data Types • Data Types: int, char, float, double. Declaration & Initialization. • Type modifiers: long, short, signed and unsigned	Lecture	03	September	
4	Structure of C Program: Compilation & Execution of C program, I/O: Introduction, Formatted Input/Output function: scanf & printf, Escape sequence characters. Library functions: General used & Mathematical.	Lecture	05	September	
5	Control and Iterative Statements : Simple if, nested if, if-else, else if ladder	Lecture	08	October	

	<ul style="list-style-type: none"> • Switch-case statement • The conditional expression (? : operator) • while and do-while loop, and for loop • break & continue statement, goto statement 				
6	<p>Arrays: Introduction, Declaration and initialization Accessing array elements, Memory representation of array.</p> <ul style="list-style-type: none"> • One dimension and multidimensional arrays, character array, Introduction to string <p>Functions Introduction, types of functions. Defining functions, Arguments, Function prototype, actual parameters and formal parameters, Calling function, Returning function results, Call by value, Recursion</p>	Lecture	12	November	

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Teaching –Plan Academic Year 2020-2021

Class: B.Sc.

Department of Computer Science

Paper No.: CS07 (III Sem.)

Name of Faculty: Mr. I. S. Inamdar

Paper Name: Advance C Programming

Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1.	Functions Introduction, types of functions. Defining functions, Arguments, Function prototype, actual parameters and formal parameters, Calling function, Returning function results, Call by value, Recursion. Structure & Union Structure: Introduction, Declaration and initializing structure, Accessing structure members, Nested structures, Arrays of structure, typedef statement. Unions: Declaration, Difference between structure and union	Lecture	12	July	
2.	Pointers: Introduction, Memory organization. Declaration and initialization of pointers. The pointer operator * and &, De-referencing, Pointer expression and pointer arithmetic, Pointer to pointer. Storage Class & Library Functions: Storage classes, Scope, visibility and lifetime of variable, block and file scope, auto, extern, static and register storage classes. String handling functions: strcpy(), strcmp(), strcat(), strlen(),strupr(), striwr(), gets(), puts() Data conversion functions from stdlib.h: atoi(), atol(), atof(), itoa(), Itoa(), random(), calloc(),malloc(),exit(), abs(), toupper(), tolower()	Lecture	15	August Sptember	

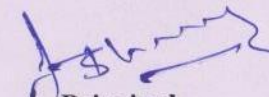
	<p>Preprocessor Directives: File inclusion and conditional compiler directives, Macro substitution, #define, #if, #ifdef, #else, #elif, #endif</p>				
3.	<p>File handling: Introduction, Opening & closing a file, Input/Output operations on files, text and binary files, getc(), putc() function. File copy program, fprintf() and fscanf(). fread() and fwrite() function. Writing and reading records from binary file, Appending, modifying and deleting a record from file, Random access functions fseek(), rewind(), flushall(), remove(), rename(). Command line arguments: use of argc and argv. Graphics in C: Introduction: initgraph() and detectgraph() function, Drawing object in C, Line, Circle, Rectangle, Ellipse, Changing foreground & background colors, Filling object by color, outtextx() function.</p>	Lecture	15	October	



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Teaching –Plan Academic Year 2020-2021

Class: B.Sc.

Department of Computer Science

Paper No.: CS09 (III Sem.)

Name of Faculty: Mr. I. S. Inamdar

Paper Name: Adv C Programming(Practical)

Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1.	Write a Program in C to call by reference to swap a number.	Demonstration	06	June and July	
2.	Write a Program in C to pass a array to function.	Demonstration	03	July	
3.	Write a Program in C to demonstrate a storage of class.	Demonstration	03	August	
4.	Write a Program in C for reading and writing a file	Demonstration	03	August	
5	Write a Program in C for passing structure pointer to function (use arrow pointer)	Demonstration	06	September	
6	Write a Program in C to copy content of one file to another	Demonstration	06	September	
7	Write a Program in C for reading/ writing binary file	Demonstration	03	September	
8	Write a Program in C for file copy	Demonstration	03	October	
9	Write a Program in C to use command line arguments	Demonstration	06	October	
10	Write a Program in C to writing, reading content of file (use getc and putc function)	Demonstration	06	October	

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Class: B.Sc.

Department of Computer Science

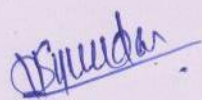
Paper No.: CS011 (IV Sem.)

Name of Faculty: Mr. I. S. Inamdar

Paper Name: Programming in C++

Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1.	Procedural Vs Object Oriented Programming, Basic concepts of Object Oriented Programming, Class, Object, Data Abstraction, Encapsulation, Inheritance, Polymorphism, Dynamic Binding, Message Passing. Benefits and applications of OOP, History and overview of C++, C++ program structure. Reference variables, Scope resolution operator, Member de-referencing operators, new and delete, cin and cout, The endl and setw manipulator. Functions in C++: Function prototype, Call by reference (using reference variable), Return by reference, Inline function, Default arguments, Const arguments.	Lecture	15	October, November	
2.	Function overloading: Different numbers and different kinds of arguments Objects and Classes: Specifying a class, private and public, Defining member functions, Nesting of member function, Object as data types, Memory allocation for objects, static data members and member functions. Array of objects, Objects as function argument, returning objects, Friend function and its characteristics.	Lecture	15	December January	


3.	Constructors and Destructors: Introduction, default and parameterized constructors, Multiple constructors in a class, Copy Constructor, Destructors Operator Overloading: Overloading unary operators, Rules for operator overloading, Overloading without friend function and using friend function, Overloading binary operators such as arithmetic and relational operators, Concatenating	Lecture	13	February	
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Teaching –Plan Academic Year 2020-2021

Class: B.Sc.

Department of Computer Science

Paper No.: CS013 (IV Sem.)

Name of Faculty: Mr. I. S. Inamdar

Paper Name: Programming in CPP (Practical)

Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1.	Write a Program in C++ to prepare student result	Demonstration	6	October	
2.	Write a Program in C++ for reference variable	Demonstration	5	October	
3.	Write a Program in C++ for setw() function	Demonstration	6	November	
4.	Write a Program in C++ to demonstrate inline function	Demonstration	6	December	
5	Write a Program in C++ for object and class	Demonstration	6	January	
6	Write a Program in C++ to implement function overloading.	Demonstration	6	January	
7	Write a Program in C++ to use of array of object	Demonstration	6	January	
8	Write a Program in C++ to use of friend function	Demonstration	5	February	
9	Write a Program in C++ to use of constructor	Demonstration	5	February	
10	Write a Program in C++ to use of destructor	Demonstration	3	February	

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Teaching –Plan Academic Year 2020-2021

Class: B.Sc

Department of Computer Science

Paper No.: CS016 (V Sem.)

Name of Faculty: Mr. I. S. Inamdar

Paper Name: Web Designing

Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1.	<p>Introducing HTML5</p> <p>Understanding HTML, XHTML, and HTML5, Introducing semantic markup, Syntax, Attributes, Working with elements, Creating an HTML document, Embedding content, Embedding HTML by using inline frames, Working with hyperlinks, Adding images to your HTML document, Embedding plug-in content Advances of HTML5</p> <p>HTML5 Layout container, Format using <div> element, Working with Tables: creating regular and irregular tables, heading, columns and rows, captions, header, footer.</p>	Lecture	15	July August	
2.	<p>Introducing JavaScript</p> <p>Basic of JavaScript, JavaScript Variables, Operators & Its Precedence, Special Values, Predefined Built-in functions, Functions Declaration & Call, String Functions</p> <p>Conditions and looping structure, Inline JavaScript & External JavaScript</p> <p>Advances in JavaScript</p> <p>Object in JavaScript, Concept of array, how to use it in JavaScript, types of an array, array methods DOM Concept in JavaScript, DOM Objects, DOM Search Methods</p> <p>Event handling in JavaScript: Capturing & Bubbling, Subscribing, Unsubscribing and Cancelling Event, Windows Event, Keyboard and Mouse Events.</p>	Lecture	15	August september	
3.	<p>Cascading Style Sheet</p> <p>Introduction to CSS3, Defining and Applying a Style, Inline, Embedded and External Style Sheet. Selectors: element, id and class selector, grouping selector, attribute, Specificity and cascading, CSS properties: Color, box Model, border, , float, clear</p>	Lecture	15	September October	

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Teaching –Plan Academic Year 2020-2021

Class: B.Sc.

Department of Computer Science

Paper No.: CS018 (V Sem.)

Name of Faculty: Mr. I. S. Inamdar

Paper Name: Web Designing

Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1.	Create a simple website by using Visual Studio Express	Demonstration	03	June and July	
2.	Create additional pages.	Demonstration	03	July	
3.	Embedding Content	Demonstration	03	August	
4.	Create a webpage using <table> and <div> elements	Demonstration	03	August	
5.	Create a webpages using conditional and looping statements.	Demonstration	03	September	
6.	Create a calculator webpage	Demonstration	03	September	
7.	Create a Webpage to introduce National Bird/Animal/Emblem/ Flower	Demonstration	03	September	
8.	Learn more about positioning by adding more <div> elements to the webpage to define a header and footer for the page. Use CSS style rules to set the position	Demonstration	03	October	
9.	Learn more about CSS selectors by adding more elements to the page and try setting the format by selecting the elements without using an id.	Demonstration	03	October	
10	Learn more about colors by changing the color scheme, using RGB values.	Demonstration	03	October	

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Teaching –Plan Academic Year 2020-2021

Class: B. Sc.

Department of Computer Science
Paper No.: CS019 (VI Sem.)

Name of Faculty: Mr. I. S. Inamdar
Paper Name: Data Communication and Networking

Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1.	Introduction Communication System, Components of communication system, Computer network Advantage and applications of computer n/w. point-to-point and multipoint line configuration, LAN, MAN and WAN. Analog and Digital signals, Data Transmission: Parallel and Serial, Synchronous and Asynchronous transmission, Transmission Mode: Simplex, half-duplex and full-duplex. Network Topologies, Mesh, Star, Tree, Bus and Ring and Hybrid Topology (Advantages and disadvantages of each)	Lecture	15	October, November	
2.	Transmission media <i>Guided and unguided media, Twisted-pair, UTP and STP cable, coaxial cable, Optical Fiber cable, Radio waves, Microwaves, Satellite Communication (Transmission characteristics and advantages of each type)</i> Modulation & Multiplexing Concept of modulation and demodulation, Digital-to-analog conversion, Amplitude Shift Keying (ASK)/AM, Frequency Shift Keying (FSK)/FM, Phase Shift keying (PSK)/PM.	Lecture	15	December January	
3.	The Mobile Telephone System: First Generation (1G), Second Generation(2G), Third Generation(3G), Internet over cable, Spectrum Allocation, cable Modem, ADSL Versus Cable.	Lecture	15	February	

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Teaching –Plan Academic Year 2020-2021

Class: B.Sc.

Department of Computer Science

Paper No.: CS022 (VI Sem.)

Name of Faculty: Mr. I. S. Inamdar

Paper Name: Project

Unit No.	Title / Subject	Method of Teaching	No. of Period	Duration of Date / Month/ Year	Remarks
1.	Case study	Demonstration	15	November, December January	
2.	Project	Demonstration	24	January February March	

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