Kisan Vidya Prasarak Sanstha's

SPDM Arts, SBB and SHD Commerce and SMA Science College

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Faculty wise/ Department wise Teaching Plan 2019-20

2019 - 2020

ANNUAL TEACHING PLAN

CLASS - FYBA PAPER - हिन्दी कहानी / हिन्दी कविता

Sr.No	Month	Topic to covered	Lectures Required	Remarks
	जुलै	हिन्दी कहानी का स्वरूप एवं विकास का परिचय। 'सद्गति' कहानी का अध्ययन विवेचन, लेखक परिचय, 'पाजेब' कहानी का अध्ययन विवेचन, लेखक का परिचय	16	
	ऑगस्ट	'तस्वीर' कहानी का अध्ययन विवेचन, कहानी लेखक का परिचय, 'नौकरी पेशा' कहानी का अध्ययन विवेचन	15	
	सप्टेंबर	'सौदा' कहानी का अध्ययन विवेचन, लेखक परिचय, 'गदल' कहानी का अध्ययन विवेचन, लेखक परिचय	15	
	ऑक्टोबर	'सरहद के इस पार' कहानी का अध्ययन विवेचन, लेखक परिचय, 'जिनावर' कहानी का अध्ययन विवेचन, लेखक परिचय	12	
		प्रश्नपत्र कार चर्चा एवं हल पाठ्यक्रम का सारांश		

डॉ. भारती वळवी
Assist./ Associ.Prof.

H.O.D.

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ANNUAL TEACHING PLAN

CLASS - FYBA PAPER - हिन्दी कहानी / हिन्दी कविता

Sr.No	Month	Topic to covered	Lectures Required	Remarks
	डिसेंबर	आधुनिक हिन्दी कविता का परिचय 'सखि, वे मुझसे कहकर जाते' कविता का आशय विवेचन कवि परिचय, 'वह तोड़ती पत्थर' कविता का आशय विवेचन, कवि परिचय, 'सुख-दुःख' कविता का आशय विवेचन, कवि परिचय 'गीतकार मर गया' कविता का आशय विवेचन, कवि परिचय	14	
	जानेवारी	'जो बीत गई' कविता का आशय विवेचन, कवि परिचय, 'प्रेत का बयान' कविता का आशय विवेचन कवि परिचय, 'सूनी सी साँझ तक' कविता का आशय विवेचन, कवि परिचय, 'गीत फरोश' कविता का आशय विवेचन कवि परिचय 'गाँधीजी के जन्मदिन पर' कविता का आशय विवेचन कवि परिचय	15	
	फेब्रुवारी	'प्रौढ़ शिक्षा' कविता का आशय विवेचन, 'पिता' कविता का आशय परिचय, 'सात झाड़ियों के बीच चम्पा' कविता का आशय विवेचन 'स्त्रियाँ' कविता का आशय विवेचन, 'खोज की बुनियाद' कविता का आशय विवेचन, 'अपने घर की तलाश' कविता का आशय विवेचन	14	

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आधुनिकवाङ्मयप्रकार: कादंबरी - MAR232 = 830202

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2019 - 20

ANNUAL TEACHING PLAN

MAR 232 + MAR242
DSE-1A & 1B

CLASS S.Y.B.A. PAPER DSE 1 - आधुनिक वाङ्मय प्रकारांचा अभ्यास
आधुनिक वाङ्मय प्रकार: कादंबरी + अ. भा. म. - कविता

Sr. No.	Month	Topic to be Covered	Lectures Required	Remarks
	जुलै	अभ्यासक्रम परिचय, कादंबरी -		
		व्याख्या, स्वरूप वैशिष्ट्ये, आधुनिक	12	पूर्ण
		कादंबरीची वाटचाल -		
		स्वातंत्र्यपूर्व काळ		
	ऑगस्ट	कादंबरीची वाटचाल - स्वातंत्र्योत्तर काळ		
		अवकाळी पावसाच्या दरम्यानची गोष्ट -	13	पूर्ण
		कादंबरीचे कथानक, कादंबरीतील		
		व्यक्तिरेखाचित्रण		
	सप्टेंबर	अ. भा. गोष्ट. कादंबरीतील प्रस्तावना		
		व वातावरण निर्मिती, कादंबरीची	13	पूर्ण
		निवेदन पद्धती		
	ऑक्टोबर	अ. भा. गोष्ट कादंबरीची भाषाशैली	12	पूर्ण
		ग्रामीण जीवनदर्शन, संघर्ष चित्रण		
	नोव्हे.	अभ्यासक्रम परिचय	05	पूर्ण
	डिसेंबर	कविता - काही मराठी प्रकारांचे स्वरूप व वैशिष्ट्ये		
		आधुनिक मराठी कवितेची वाटचाल -		
		स्वातंत्र्यपूर्व काळ	12	पूर्ण
	जानेवारी	कवितेची वाटचाल - स्वातंत्र्योत्तर काळ		
		माझे विद्यापीठ - काव्यसंग्रहातील काही गाभा	12	पूर्ण
		विश्व, मार्क्सवादी जाणीव		
	फेब्रुवारी	माझे विद्यापीठ - संग्रहातील महानगरी जाणीव		
		कवितेतून घडणारे स्त्रीदर्शन	12	पूर्ण
	मार्च	माझे विद्यापीठ - काव्यभाषा रचना	10	पूर्ण
		विश्लेषण —		
	एप्रिल	विद्यापीठीय परीक्षा —		

Asstt. / Assoc. Prof.

H.O.D.

Principal

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मराठी विभाग
एसपीडीएम महाविद्यालय शिरपूर

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DEPARTMENT OF ECONOMICS (2019-20)

ANNUAL TEACHING PLAN

CLASS- TYBA (Sem-VI) PAPER- Eco-353(A) International Trade and Practices -II

Sr. No.	Month	Topic To Be Covered	Lecture Required	Remark
1	Nov/Dec.	Unit-I- International Capital Movement and MNC International Capital Movement: Meaning FDI ,FII Meaning Advantage and disadvantage : Role of MNC's in developing Countries, disadvantages Way to entry, Determinants	12	Completed
2	Dec./Jan.	Unit II – International Inst.REC. IMF Obje. Fun;Critical Appraisa World Bank (WB): Obj Funt, WTO Functions, Adva. and Dis. Association of South East Asian Nation (SAARC):Objectives,Origin.	13	Completed
3	Jan./Feb/March.	Unit III- – Devaluation and convertibility of rupee. Devaluation: Meaning and Objectives Devaluation of Indian Rupee Unit IV Eurocurrency (Euro-Dollar Market) Meaning, Origin, Growth General features Euro Market. Euro Market. Dev.Countries f European Union	12-13	Completed

NAME (Prof. S.S.Vasave) HOD (Prof.S.S.Vasave PRICIPLE

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KVP'S

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Annual Teaching Plan 2019-20

Class: SYBA **Paper: History of Maratha**

Name of The Teacher: A.M.Deshmukh

Sr. No.	Months	Topic To Be Covered	Lecture Required	Remarks
		First Semester		
1	July	Unit 1. Rise of Maratha Power	12	
2	August	Unit 2. Shivaji Maharaja's Relation with Various dynasty	10	
3	Sep	Unit 3. Shivaji`S Relations With The Mughals	12	
4	Oct	Unit 4. Shivaji`S Relations With The Mughals.	10	
5	Dec	Unit 4. Shivaji`S Coronation	08	
		Second Semester		
6	Dec	Unit 1. Karnataka Expedition	15	
7	Jan	Unit 2. Relations With Foreign Powers	15	
8	Feb	Unit 2. Administration And Policy	15	
9	Mar	Unit 3. Maratha War Of Independence	07	

Subject Teacher H.O.D. Principal

Faculty wise/ Department wise Teaching Plan 2019-20

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Annual Teaching Plan AY 2019-2020
DSE-HIS-232 History of United States of America (A.D. 1776 - A.D. 1945)
Class SYBA Sem III Name of The Teacher: Dr. Warma M.J.

Sr.No	Months	Topic To Be Covered	Lecture Required	Remarks
1	July	UNIT 1 : THE BACKGROUND	15	
2	August	UNIT 2 : MAKING OF THE REPUBLIC	15	
3	September	UNIT 3 : EVOLUTION OF AMERICAN DEMOCRACY	12	
4	October	UNIT 3 : EVOLUTION OF AMERICAN DEMOCRACY	10	

DSE - HIS 242 History of United States of America (A.D.1776- A.D. 1945)

Sr.No	Months	Topic To Be Covered	Lecture Required	Remarks
1	Nov/December	UNIT 1: CAPITALISM OF USA	15	
2	January	UNIT 2 : CIVIL WAR	15	
3	February	UNIT 3: AMERICA AND WORLD WARS	12	
4	March	UNIT 3: AMERICA AND WORLD WARS	10	

Subject Teacher
Dr.Manisha J. Warma

HOD
N.S.A.Pathan
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Principle
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Annual Teaching Plan AY 2019-20

Class: SYBA Paper: DSE-HIS-232 History of United States of America (A.D.1776 - A.D. 1945) Sem. 3/4

Name of The Teacher: Pathan N. A. S.

Sr. No.	Months	Topic To Be Covered	Lecture Required	Remarks
First Semester				
1	July	Chapter 1 : The Background	15	Complete
2	August	Chapter 2 : Making of the Republic	07	Complete
3	August/September	Chapter 2 : Making of the Republic	08	Complete
4	September/ October	Chapter 3 : Evolution of American Democracy	08	Complete
5	October	Chapter 3 : Evolution of American Democracy	07	Complete
Second Semester				
6	November/ December	Chapter 1: Capitalism of USA	15	Complete
7	December	Chapter 2 : Civil War	07	Complete
8	January/ February	Chapter 2 : Civil War	08	Complete
9	February/ March	Chapter 3: America and World Wars	08	Complete
10	March	Chapter 3: America and World Wars	07	Complete

Subject Teacher

H.O.D.

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ANNUAL TEACHING PLAN

ACADEMIC YEAR-2019-20

Name :Dr.V.L.Chavhan

Designation :Assistant Professor

Department:History

CLASS: M.A.II. SEM-III PAPER: HIS-234 (A)-: HISTORY OF MODERN MAHARASHTRA Part-I				
Sr.No.	Month	Topic To Be Covered	Lectures Required	Remarks
1	JULY-2019	UNIT 1 : BACKGROUND OF MODERN MAHARASHTRA	15	
2	AUG.-2019	UNIT 2 : RENAISSANCE IN MAHARASHTRA	15	
3	SEP.-2019	UNIT 3 : EARLY RESISTANCE TO COLONIAL RULE	10	
4	OCT.-.2019	UNIT 4 : POLITICAL AWAKENING UNIT 5 : REVOLUTIONARY MOVEMENT	12	
CLASS: M.A.II. SEM-IV PAPER: HIS-244 (A): HISTORY OF MODERN MAHARASHTRA Part-II				
5	DEC-2019	UNIT 1 : SAMYUKTA MAHARASHTRA MOVEMENT	15	
6	JAN-2020	UNIT 2 : STRUGGLE FOR SOCIAL EQUALITY	15	
7	FEB-2020	UNIT 3 : EMANCIPATION OF WOMEN	10	
8	MAR-2020	UNIT 4 : ECONOMIC TRANSFORMATION UNIT 5 : CULTURAL HERITAGE	12	

Assistant Professor H.O.D. Principal

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DEPARTMENT OF GEOGRAPHY

TEACHING PLAN FOR THE YEAR 2019-20

Name of the Teacher :- Dr. Manisha S. Patil

SUBJECT: - ENVIRONMENTAL GEOGRAPHY **Class: T.Y.B.A.**

NO	MONTHS	TOPIC	EXPECTED PERIODS	REMARK
1	JULY	**Introduction** Definition , Nature and Scope Factors of Environment	10	Completed
2	JULY	**Ecosystem** Definition of Ecosystem Cardinal principles of Ecosystem Structure of Ecosystem Nutrient cycle ,Energy flow Types of Ecosystem	16	Completed
3	AUGUST	**Environmental Pollution** Air pollution, Water pollution, Solid waste pollution, Noise pollution	14	Completed
4	SEPTEMBER	**Environmental Issues** Green-house effects Depletion of Ozone layer Global Warming ,Acid Rain	8	Completed
5	OCTOBER	**Conservation and Acts** Forest, Soil, Water, Wildlife conservation Air pollution act, water pollution act Forest and wildlife conservation acts	12	Completed
		Sem-II		
1	DECEMBER	**Remote Sensing and GIS** Introduction and types of R.S. **Active and Passive R S** Types of Aerial Photographs Types of Satellite-ISRO	25	Completed
2	JANUARY	**Elements of photo Interpretation** Application of Remote sensing Elements of Aerial photo Interpretation	15	Completed
3	FEBRUARY	**Introduction to GIS** Types of GIS Software's **Applications of GIS** Watershed, Defense, Agriculture, Forest	20	Completed
4	MARCH	Participate in University Examinations Theory and Practical's		
5	APRIL			

(Dr. M. S. Patil)

DEPT OF GEOGRAPHY SHIRPUR SPDM COLLEGE

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DEPARTMENT OF GEOGRAPHY

TEACHING PLAN FOR THE YEAR 2019-20

Name of the Teacher :- Dr. Manisha S. Patil

SUBJECT: - PRACTICAL GEOGRAPHY **Class: T.Y.B.A.**

NO	MONTHS	TOPIC	EXPECTED PERIODS	REMARK
1	JULY	**Indian daily weather report**	20	
		Isobaric pattern and weather symbols		
		Interpreatation of Indian daily weather		Completed
		report. Winter,summer,rainy season		
2	AUGUST	**Study and drawing the Weather**	10	
		Instruments		
3		**Topographical maps**	8	
		Introduction		
		Indexing of toposheets		Completed
		Marginal information		
		Gride and Gride reference		
		Convertional signs and symbols S.O.I		
		toposheets		
4	SEPTEMBER	**Interpretation of S.O.I. toposheets**	22	
		Mountainous Region		
		Plain Region		
	OCTOBER	Plateau Region		
		Desert Region		Completed
		Sem-II		
1	DECEMBER	**Statistical methods**	14	
		Meaning and Significance of Statistics		
		Sampling		
		Sources of Data		
		Frequency Distribution		Completed
2	JANUARY	**Measures of central Tendancy**	18	
		Measures of dispersion		Completed
3	FEBRUARY	**Correlation and Regression**	22	
		Students "T" test, x2 test		Completed
4	FEBRUARY	Excursion visit to place of Geographical	6	
		interest and Submission of its Report		Completed
5	MARCH	Participate in University examinations for		
	AND APRIL	Theory and Practicals		

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Faculty wise/ Department wise Teaching Plan 2019-20

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SPDM Arts, SBB and SHD Commerce and SMA Science College, Shirpur, Dist. Dhule
DEPARTMENT OF POLITICAL SCIENCE
ANNUAL TEACHING PLAN
Academic Year-2019-20
Name of Teachers- Dr.M.V. Patil
Class- F.Y.B.A.
Paper- -Pol- G - 101 A, - Indian Constitution

Sr.No.	Month	Name of Chapter	Topic to be Covered	Lectures Required
1	July	Indian Constitution & Indian Federal System	Historical background,	03
			Constitution Making Process	02
			Preamble of Indian Constitution	02
			features of Indian Constitution	03
			Nature of Indian Federal System	03
	August		Structure of Indian Federal System	03
			Features of Indian Federal System	04
2		Fundamental Rights, Duties & Directive Principals	Meaning, Scope, of Fundamental Rights	03
			Nature & Importance of fundamental Rights	03
			Fundamental Duties	02
			Difference between Rights & Duties	02
	September		Meaning and Scope, of Directive Principals	04
			,Types, Nature and Importance of Directive Principles	04
			Differences between Fundamental Rights and Directive Principles.	02
03		Constitutional Bodies And Amendment Process	National Minority Commission	03
			National Human Rights	03
	October		National Institution for Transforming India	04
			Amendment Process of Indian Constitution	03
			Importance of Amendment Process of Indian Constitution	03
			Constitution Major Amendments – 73, 74, 86,101	04
			Total	60

Dr.M.V.Pati
HoD
Political Science

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DEPARTMENT OF POLITICAL SCIENCE
ANNUAL TEACHING PLAN
Academic Year-2019-20
Name of Teacher Mr.W.G.Meshram
Class- S.Y.B.A.
Paper- - DSE– 2A Government and Politics of America

Sr.No.	Month	Name of Chapter	Topic to be Covered	Lectures Required
1	July	Constitution of America	,Nature of the Constitution	03
			Silent features of American Constitution	04
			Fundamental Rights	04
	August		Federalism – Structure, Function	04
2		Government and Administration of America	. Senate – Structure, Power, Function and Role, House of representative - Structure, Power, Function and Role.	04
			Civil Services	03
			President:. Council of Minister :	04
			. State Government : Governer, Legislature., Judiciary :	03
3	September	Political Parties and Party system of America	Judiciary: –.	03
			Relations between executive and legislature, Political Party –, Types, Role,.	04
			Interest group Historical background, Types, Role, Function.	04
			Role of Social Media and IT (Information Technology.	02
	Oct .		Social movement - Historical background, Types, Role, Function.	02
			Total	45

Prof. W.G.Meshram

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Dr.M.V.Patil
HoD Political Science

Faculty wise/ Department wise Teaching Plan 2019-20

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Shirpur, Dist. Dhule

DEPARTMENT OF POLITICAL SCIENCE
ANNUAL TEACHING PLAN
Academic Year-2019-20
Name of Teacher- Mr.W.G.Meshram
Class- T.Y.B.A. Paper- : SEC- 3 Journalism and Mass communication part 1

Sr.No.	Month	Name of Chapter	Topic to be Covered	Lectures Required
1	July	Introduction to Journalism	Meaning, Definition, Nature,	03
			Press and society ,press and government	03
			Freedom of press .and constitution	03
			Awareness and socialization of press	03
	August		Nature and process of mass communication	03
2		Introduction to mass communication	Media of mass communication	03
			Types and typology of audiences	03
			Characteristics of audiences	03
			Awareness and socialization of communication	03
	September		Role and responsibilities of Journalism and mass communication	03
3		Criticism of Journalism and mass communication	Changing role of press and press group	03
			Model code of ethics in press	04
	October		Use of new media	04
			Challenges before Journalism and mass communication	04
			Total	45

Prof. W.G.Meshram

Dr.M.V.Patil
HoD Political Science

Faculty wise/ Department wise Teaching Plan 2019-20

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ANNUAL TEACHING PLAN 2019-20

P-1

CLASS : SYBA SEM I PAPER SEC-DEF-234 Research Methodology in Defence and strategic Studies-I

Sr. No.	Month	Topic to be Covered	Lectures Required	Remarks
1	July	Unit 1) - Research in Defence and Strategic Studies - meaning, Definitions, objectives, criteria of Good Research, characteristics of Scientific Methods, Steps in conducting Research	12	
2	Aug	Research Design - Introduction, meaning characteristics	08	
3	sept	Unit - 2- Research Design - 3) Nature Importance of Research Design	12	
4	oct	Unit-3) - Data collection - Introduction, meaning origin of Data collection characteristics, Importance	13	
5	Dec.	Unit - 1 - Case - study - Introduction, meaning Nature, Process of case study Importance of case - study	15	

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Dr. Kavita Dharmadhikari
Head
Department of Defence & Strategic
K.V.P.S.S.P.D.M. Arts, S.B.B. & S.H.D.
Commerce & S.M.A.Science College
Shirpur,Dist.Dhule 425 405

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ANNUAL TEACHING PLAN 2019-20

P-2)

CLASS : SYBA - Skill PAPER SEC-DEF-244 Research methodology in Defence and strategic studies - II

Sr. No.	Month	Topic to be Covered	Lectures Required	Remarks
6	Jan	Unit - 2 - Observation method - Introduction, meaning Nature	10	
7	Feb	Limitations of Observation method Evolution of observation method. Unit - 3 - Research Report Introduction	12	
8	march	Research Report - meaning, Nature, objectives, Importance of Research Report.	08	

Assist./Associ.Prof. H.O.D. Principal

Dr.Ravita Dharmadhikari
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SPDM Arts, SBB & SHD Commerce & SMA Science College, Shirpur

Annual Teaching plan- 2019-20

Department of Defence and Strategic Studies

Class- TYBA Paper- Contemporary Study of War & Peace - I, II

Name of Teacher: - Dr. Surendra B. kamble

Sr. No.	Month	Topic to be Covered	Lectures Required	Remarks
1	July 2019	**Changing International Environment since world war II** a) Increasing Importance of Military Power b) Technological power and increasing compulsion c) Political Power and increasing compulsion d) Economic power and increasing compulsion	10	
2	July 2019	**Cold War** a) Meaning b) Concept c) Scope d) Causes e) Effects	10	
3	Aug. 2019	**Detente** a) Meaning, Causes b) Nature c) Evaluation	10	
4	Aug.-Sept. 2019	**Deterrence** a) Meaning, Definitions, strategy b) Requirements of Deterrence- communication, capability, credibility c) The efficiency of war d) The theory of Nuclear Deterrence.	10	
5	Sept.-Oct. 2019	**Balance of Power** a) Meaning, Definition, Objectives b) Deferent forms of Balance of power c) Ways of Techniques of maintaining balance d) Contemporary Balance of power	10	
6	Dec. 2019	**Collective Security** a) Meaning and definitions b) Foundation of collective security c) Collective security and collective Defence d) Evaluation	10	
7	Dec. 2019 Jan. 2020	**Non-Alignment** a) Meaning b) Development c) India's role for Non-alignment d) Evaluation	9	
8	Jan. 2020	**Disarmament and arms control** a) Meaning & Definition, Nature b) Types c) Disarmament in Nuclear Race d) Evaluation	8	
9	Feb. -March 2020	**Science, Technology and National Power** a) Introduction b) Atomic & Nuclear Technology c) Use of Nuclear Technology d) Misuse of Nuclear Technology e) Nuclear power for civil use	10	
10	March 2020	**Peace Research** a) Meaning b) Concept c) Trends of peace-Research	8	

Dr. S.B. Kamble

Dr.Kavita Dharmadhikari
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DEPARTMENT OF PHYSICS

TEACHING PLAN

Academic Year: 2019-20 **Class : S Y B Sc** **Semester: IV**

Name of Teacher : A. E. Mali

Paper: PHY 401: Waves, Oscillations and Acoustics

Sr. No.	Month	Topic Details	No. of Periods	Remarks
1	February	Unit I: Composition of two S. H. M.'s Composition of two S.H.M.s of equal frequencies along same line (co-linear) of vibration (analytical method only), Composition of two S.H.M.s of equal frequencies acting at right angles (analytical method with different cases), Composition of two S.H.M.'s right angles to each other (time period in the ratio 1:2), Lissajous figures- demonstration by mechanical, optical and electrical methods, applications of Lissajous figure	08	Completed
2	March	Unit II: Waves Motion General: Transverse waves on a string. Travelling and standing waves on a string. Normal Modes of a string. Plane waves, Spherical waves, Wave intensity	06	Completed
3	April	Unit - III: Forced oscillations Idea of forced oscillations, Resonance and its types- Mechanical resonance (Barton's pendulum), Acoustic resonance (resonance tube), Electrical resonance (LCR circuit) and Optical resonance (sodium vapour lamp), Differential equation of forced oscillations and its solution, Amplitude of forced oscillations, Amplitude resonance, Application to series L-C-R circuit	06	Completed
4	May	Unit IV: Sound: Parameters of Sound: Sound intensity, Loudness, Pitch, Quality and timber, Acoustic intensity level measurement, Acoustic pressure and its measurement. Reverberation and time of reverberation. Ultrasonics: Classification of sound frequencies, Piezoelectric effect, Piezoelectric oscillator, Doppler effect: Doppler effect in sound, Expression for apparent frequency Asymmetric nature of Doppler effect in sound, Doppler effect in light, Symmetric nature of Doppler effect in light, Applications of Doppler effect in sound and light	10	Completed

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DEPARTMENT OF PHYSICS

TEACHING PLAN

Academic Year: 2019-20 **Class : S Y B Sc** **Semester: IV**

Name of Teacher : P G. Parodhi

Paper: PHY 402: Optics and LASERS

Sr. No.	Month	Topic Details	No. of Periods	Remarks
1	February	Unit I: Geometrical Optics: Deviation produced by thin lenses, equivalent focal length of two thin lenses separated by a distance and when in contact. Power of lens, Spherical aberration in lens, reduction of spherical aberration Chromatic aberration, Achromatism;	06	Completed
2	March	Unit II: Interference: Principle of superposition of two, Concept of interference, Intensity distribution in the interference pattern, Division of amplitude and division of wavefront. Young's Double Slit experiment, Expression for fringe width, Fresnel's Biprism and Lloyd's Mirror. Phase change on reflection: Stokes' treatment. Interference in Thin Films various fringes, Newton's ringsexperimental setup, theory and its application to determine wavelength of source and refractive index of liquids	10	Completed
3	April	Unit III : Diffraction: Definition of diffraction, Concept of diffraction, Types of diffraction, Fresnel Diffraction: Half-period zones, Zone plate, Fresnel Diffraction pattern of a straight edge, a slit and a wire using half-period zone analysis, Fraunhofer diffraction: Single slit; Double Slit. Multiple slits and Diffraction grating. Unit IV: Polarization: Polarization, Polarization by reflection, Brewster's law, Polarization by double refraction in uniaxial crystals, Maluss Law Double refracting crystals, Positive and negative crystals, Production and detection of circularly and elliptically polarized light, Nicol prism, Optical activity, Rotation, Polarimeter or Sacherimeter,	08	Completed
4	May	Unit V: Non-linear optics: Principle of LASER, Characteristics of LASER, Basic steps required to form a LASER: absorption, spontaneous emission, stimulated emission, Metastable state, population inversion, optical pumping, Types of LASER- He-Ne LASER, Application of LASERS	06	Completed

Prof. P.G. Parodhi

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DEPARTMENT OF PHYSICS

TEACHING PLAN

Academic Year: 2019-20 Class : F Y B Sc Electronics Semester: I

Name of Teacher : Dr. S. B. Girase

Paper: ELE-101: Network Analysis and Semiconductor Diodes

Sr. No.	Month	Topic Details	No. of Periods	Remarks
1	October	Unit 1: Basic Circuit Concepts Resistive circuits: Series circuit, characteristics of series circuit, series voltage divider, open and short in series circuit, Parallel circuit, laws of parallel circuit, open and short in parallel circuit, series-parallel circuits Inductors: Self and mutual inductance, Inductance in series and parallel Capacitors: Principles of capacitance, capacitors in series and parallel	15	Completed
2	November	Unit 2: Circuit Analysis Concept of Voltage and Current Sources. Kirchhoff's Current Law, Kirchhoff's Voltage Law. Mesh Analysis. Node Analysis. Star and Delta networks, Star-Delta Conversion. Problems based on KCL, KVL and Star-Delta conversion Unit 3: Network Theorems Principal of Duality. Superposition Theorem. Thevenin's Theorem. Norton's Theorem. Reciprocity Theorem. Maximum Power Transfer Theorem. Problems based on these theorems	17	Completed
3	December	Unit 4: Junction Diode PN junction diode – formation/construction, Formation of Depletion Layer, forward and reverse biasing, Diode Equation and I-V characteristics. Idea of static and dynamic resistance, Zener diode- I-V characteristics, Zener and avalanche breakdown, Reverse saturation current	18	Completed
4	January	Unit 5 Applications of Junction diodes Rectifiers- Half wave rectifier, Full wave rectifiers (center tapped and bridge), circuit diagrams, working and waveforms, PIV, ripple factor and efficiency (Derivation not expected). Comparison of rectifiers, Filter-Shunt capacitor filter, its role in power supply, output waveform, and working. Zener diode as voltage regulator, Problems on Zener regulator.	16	Completed

Dr. S.B. Girase.

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Faculty wise/ Department wise Teaching Plan 2019-20

Teaching Plan Year 2019-20

Course No:- CH-352 TYBSC Semester I" Inorganic Chemistry

Sr. No.	Month	Class	Topics to be covered	Lecture required	Remark
1	July	TYBSC	**Basic concepts of coordination Chemistry**	**12**	
			Double salts and coordination compounds, co-ordination complexes and complex ions, coordination number, Unidentate, bidentate and polydentate ligands, chelating ligand and chelates, physical methods used in study of complex, Nomenclature of coordination compounds.		completed
2	July	TYBSC	**Werner's coordination theory.**	12	
			Assumptions, Werner theory and isomerism, EAN, Stability of complex ion, Factors affecting stability of complex ion, stereochemistry of coordination compound with C.N. 4 and 6, isomerism in coordination compounds.		completed
3	August	TYBSC	**Modern Theories of M-L Bonds: V.B.T.**	10	
			The main points of V.B.T., Examples of square planar, tetrahedral and octahedral complexes, short coming b) of V.B.T.		completed
4	September	TYBSC	**Modern Theories of M-L Bonds: C.F.T.**	14	
			Assumptions, Degeneracy of 'd' orbitals, Application of CFT to square planer, tetrahedral and octahedral complexes. C.F.S.E., Calculation of C.F.S.E. in weak field and strong field complexes, Evidences of C.F.S.E., Factor's affecting 10 Dq, CFT and magnetic properties, spin only magnetic moments, equation, Electron occupancy in CFT, Problems related to calculation of spin only magnetic moment for square planer, tetrahedral and octahedral complexes, (' ' for high spin and low spin complexes) spectrochemical series, John Teller distortion, limitations.		completed
5	September	TYBSC	**Modern Theories of M-L Bond - M.O.T.**		
			Introduction, Assumptions, Molecular orbital treatment of octahedral complexes, effect of pi bonding, charge transfer spectra, comparison of VBT, CFT and MOT	12	completed

A.P. Chaudhari

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Teaching plan 2019-20

T. Y. B. SC

Analytical Chemistry CH-354\364

Mahire S. P.

Assistant Professor, Departmrnt of Chemistry

Sr. no.	Month	Topic to be covered	Content		
1	July	**Solvent Extraction**	The Distribution Co-efficient, The Distribution Ratio, Percent Extracted, Solvent Extraction of Metals - Ion Association Complex and Metal Chelates, The Extraction Process, The Separation Efficiency of Metal Chelates, Analytical Separations, Multiple Batch Extractions, Counter current distribution, Simple numerical problems on Percent Extracted and Multiple Extraction	14	Completed.
2.	July, August	**Ion Exchange Chromatography**	Introduction, Cation Exchange Resins, Anion Exchange Resins, Cross-linkage, Effect of pH on Separation of Amino Acids, Effect of Complexing Agents20 Separation of Metal ions on Anion Exchange Columns, Applications of Ion Exchange Chromatography	12	Completed
3	August	**Size Exclusion Chromatography**	Introduction, Principles, Exclusion Limit, Types of Gels, Applications	6	Completed
4	August	**Gas Chromatography**	Introduction, Principles, Gas chromatography Columns, Gas Chromatography Detectors, Column Efficiency in Gas chromatography- 1) Theoretical Plates, 2) Van Deemter Equation, 3) Capacity Factor and 4) Resolution	12	Completed
5	September	**High-Performance Liquid Chromatography**	Introduction, Principles, Equipment for HPLC, Choice of Column Materials for HPLC	8	Completed.

S.P. Mahire

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Teaching Plan _ 2019-20

FYBSc, Physical & Inorganic Chemistry - CH-101/201

Teaching Methodology:

1. Chalk & Talk
2. Topic Slides, PPT
3. Google Classroom

Sr No	Content & Topics	No. of Contact Hrs	Remarks
	CH: 101 Physical and Inorganic Chemistry -I		
1	**Chapter 1: Electrolytic conductance** ☐ Electrolytic conductance, ☐ Equivalent conductance ☐ Determination of conductance ☐ Variation of conductance with concentration ☐ Equivalent conductance at infinite dilution ☐ Kohlrausch's law and its applications ☐ Applications of conductance measurements. a) Solubility of sparingly soluble salts b) Determination of degree of ionization c) Determination of Ionic product of water d) Conductometric titration, Acid-Base Titrations ☐ Numerical problems relevant to the topic are expected.	10	
2	**Chapter 2: Surface Chemistry** ☐ Introduction ☐ Adsorption, Mechanism of adsorption ☐ Factors affecting adsorption of gases by solids	06	

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Faculty wise/ Department wise Teaching Plan 2019-20

	☐ Difference between adsorption and absorption ☐ Types of adsorption: Physical and Chemical adsorption ☐ Adsorption of gases by solid ☐ Types of adsorption isotherms: 1. Freundlich Adsorption Isotherm 2. Langmuir Adsorption Isotherm (Derivation)		
3	**Chapter 3: Mathematical Preparation in Chemistry** **Logarithm:** ☐ Rules of Logarithm (without proof) ☐ Characteristic and Mantissa of Logarithm ☐ Negative Logarithm ☐ Numerical based on applications of Logarithm in calculating pH with change of base of logarithm ☐ Antilogarithm **Graphical representation of equations:** ☐ Rules for drawing graph coordinates etc., ☐ Equation of straight line, slope and intercept ☐ Plotting the graph from the data of chemical properties and problems **Derivative:** ☐ Rules of differentiation (without proof), ☐ Algebraic, Logarithmic and exponential functions and ☐ Numericals **Integration:** ☐ Rules of integration (without proof), ☐ Integration with limit, ☐ Algebraic, Logarithmic and exponential functions and numerical. ☐ Numerical related to Chemistry	14	
4	**Chapter 4: Periodic properties** **a) Atomic and ionic size** ☐ Definition and explanation of atomic radius, ionic radius, covalent radius and Van der Waal radius ☐ Variation of atomic size along a period and a group. **b) Ionization energy** ☐ Definition and explanation	08	

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	☐ Hydrometallurgy ☐ Refining of metals		
10	**Chapter 5: P-block elements** ☐ Electronic configurations of P block elements ☐ **Variation in properties:** atomic radius, ionization energy, electron affinity, electronegativity, metallic character, oxidation state, reactivity ☐ Acidic and basic character of hydroxides of P block elements ☐ **Bonding and shapes of following molecules:** ☐ Al2Br6, ☐ Diamond and graphite, ☐ P4, ☐ S8, ☐ ClF3.	08	

Dr Sharad R Patil
MSc, PhD (ICT), NET, SET, GATE
(Assistant Professor)

Head, Department of Chemistry

HEAD
Department Of Chemistry

उपप्राचार्य
श्रीमती पार्वतीबाई आर्टस्, श्री.बंडू भगवान
व श्रीमती हिराबाई दलाल कॉमर्स व शिरपूर
व्यापारी असोसिएशन सायन्स कॉलेज,
शिरपूर, जि.धुळे ४२५ ४०५ (महा)

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Faculty wise/ Department wise Teaching Plan 2019-20

Teaching plan (A.Y.2019-2020)

Name of Teacher: - Vilas Bhaurao Mahale
Subject:- Organic Chemistry

Department:- Chemistry
Class:- T.Y.B.Sc

Month &Year	Name of Unit	Topic to be covered	No.of lecture	Remark
		Sem I		
July 2019	Unit I Structural Effects	Inductive effect, Resonance effect, Steric effect, Hyper conjugation, Application of all these effects in deciding the strength of acids and bases.	10 L	Completed
July 2019	Unit II Nucleophilic Substitution at Saturated Carbon	Introduction, Relation between kinetics and mechanism.TheSN^1, SN^2 and SN^i Mechanism. Stereo chemical implications of mechanism SN2 mechanism-Inversion of configuration,SN^1mechanism-acemisation SNi mechanism- Retention of configuration Effect of structure and solvent on SN1andSN2mechanism	10 L	Completed
August 2019	Unit III Electrophilic Addition to C=C	Introduction, Addition of halogens, Addition of HX and orientation of addition, Other addition reactions-Hydration, Hydroxylation, Hydrogenation, Ozonolysis	10 L	Completed
August 2019	Unit IV Nucleophilic Addition to C=O	Structure and Reactivity, Addition of water, alcohol, thiol, hydride ion, Derivatives of ammonia. Carbon nucleophilic addition-Aldol Condensation, Perkin reaction, Claisen ester condensation	10 L	Completed
September 2019	Unit V Aromatic Substitution	Electrophilic Aromatic Substitution-Friedal Craft alkylation and its Limitations, Friedal Craft acylation, Diazo coupling reactions	10 L	Completed
September 2019		.Nucleophilic Aromatic Substitution-Introduction, Mechanisms: Addition – Elimination mechanism	10 L	Completed

Subject Teacher

HOD

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DEPARTMENT OF MATHEMATICS
TEACHING PLAN

Academic Year: 2019-20 **Class : F.Y.B.SC** **Semester: 1**

Name of Teacher :Mr. Bansod N. N **Paper Name : GRAPH THEORY**

Sr. No.	Month	Topic Details	No. of Periods	Remarks
1	July	Graphs Graph, Simple graph, Multigraph, Hand shaking lemma, Type of Graphs, Operations on graphs, Subgraphs, Isomorphism of graphs, Walk, path, cycles (circuits).	12	Completed
2	August	Connected Graphs Connected & disconnected Graphs, bridges, Cut vertices, edge connectivity & vertex connectivity, Eulerian graph, Konigsberg Seven Bridge Problem, Hamiltonian Graph, Travelling salesman Problem, Planar Graph, Euler's Formula for planar graphs, Kuratowski's two graph, Geometrical dual & Coloring of the graphs.	12	Completed
3	September	Trees & Directed Graphs Definition of directed graph & it's type, Connectedness in digraph, Strongly connected digraph Eluer digraph, Trees, Properties of trees, Distance & Center in a trees, Definitions of Rooted & Binary trees, Spanning trees, Minimal Spanning trees.	11	Completed
4	October	Applications of the Graphs Introduction, formation of flowchart using rooted trees, Kruskal's algorithm, Dijkstra's algorithm, Warshall's algorithm.	10	Completed

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(Bansod N.N)

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DEPARTMENT OF MATHEMATICS
TEACHING PLAN

Academic Year:2019-20 **Class :T.Y.B.sc** **Semester: 6 th**
Name of Teacher : Mr. Bansod N. N **Paper Name :MTH-364: Ordinary & Partial Differential Equations**

Sr. No.	Month	Topic Details	No. of Periods	Remarks
1	December	Unit 1: Exact Differential Equations 1.1 Definition, condition of exactness of a linear differential equation of order n 1.2 Working rule for solving exact equations, example of type-1 1.3 Integrating factor, examples of type-2 1.4 Exactness of non-linear equations, Solutions by trial, examples of type-3 1.5 Equations of the form $\frac{d^n y}{dx^n} = f(x)$, examples on type-4 1.6 Equations of the form $\frac{d^2y}{dx^2}$=f(y), examples on type-5.	12	Completed
2	January	Unit 2: Linear Differential Equations of Second Order 2.1 The standard from of linear diff. eqn. of second order 2.2 Complete solution in terms of one known integral belonging to C. F. 2.3 Rule for getting an integral belong to C. F., working rule for finding complete solution when an integral of C. F. is known. 2.4 Removal of first derivative, reduction to normal form, working rule for solving problems by using normal form 2.5 Transformation of the equation by changing the independent variable, working rule.	12	Completed
3	February	Unit 3: Power Series Method 3.1 Introduction, some basic definitions, ordinary & singular point 3.2 Power series solution, series solution about regular singular point x=0, Frobenius method 3.3 Frobenius method type-1 3.4 Frobenius method type-2 3.5 Frobenius method type-3 3.6 Frobenius method type-4 based on.	12	Completed

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Faculty wise/ Department wise Teaching Plan 2019-20

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Annual Teaching Plan (2019 - 2020)

Class: F. Y. B. Sc. **Sub:** Botany
Name of the teacher: Dr. C. M. Pawara
Sem. - I **Paper - I:** Bot. 101: Microbial Diversity, Algae & Fungi

Month	Units	Sub units	Lectures Required	Remark
July 2019	1. Microbes	1.1: Introduction and main groups of microbes 1.2: Classification of microorganisms	02	Covered
	2. Viruses	2.1 Introduction, Discovery and Characteristics of Viruses. 2.2 General morphology of viruses 2.3 Nature of viruses 2.4 Ultra structure of viruses 2.5 DNA Virus and RNA Virus(TMV) 2.6 Reproduction of Bacteriophages 2.7 Economic importance 2.8 Plant diseases caused by viruses i) Yellow vein mosaic of Lady's finger ii) Leaf curl of Tomato	07	Covered
	3. Bacteria	3.1 Introduction, discovery and General Characters 3.2 Classification of Bacteria on the basis of morphology	01	Covered
August 2019	4. Algae	3.3Structureof Bacterial Cell 3.4 Gram positive and Gram negative Bacteria 3.5 Reproduction - Asexual and Sexual 3.6 Economic Importance of Bacteria 3.7 Study of Bacterial diseases i) Citrus canker ii) Black arm of Cotton	06	Covered
		4.1 Introduction, definition and General Characters of algae 4.2 Habitats of algae 4.3 Thallus structure in algae 4.4 Reproduction 4.5 Classification of algae 4.6 Economic importance of algae 4.7 Study of of *Nostoc* and *Spirogyra.*	06	Covered
September 2019	5. Fungi	4.7 Study of of *Nostoc* and *Spirogyra.* 5.1 Introduction, definition and General Characters 5.2 Thallus structure and mode of nutrition 5.3Classification of Fungi 5.3 Economic importance of Fungi 5.4 Study of *Rhizopus and Agaricus.* 5.5 Lichens: Definition, Characters, Types and economics importance. 5.6 Definition , General account, significance & types of Mycorrhiza	01 07	Covered

Signature of Teacher:

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K. V. P. Sanstha's
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Annual Teaching Plan (2019 - 2020)

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

Name of the teacher: Dr. C. M. Pawara

Sem. - II **Paper - II**: Bot. 401: **PLANT EMBRYOLOGY**

Month	Topics	Sub Topics	Lectures Required	Remark
November 2019	1: Introduction	1.1: Definition, Scope and importance of Embryology	01	Covered
	2:Microsporangium (Anther)	2.1: Structure of anther- Epidermis, endothecium, middle layer sporogenious tissue and Tapetum. 2.2: Tapetum types- a) Amoeboid or plasmodia b) Secretary or glandular 2.3: Functions of Tapetum 2.4: Microsporogenesis- karyokinesis and cytokinesis (simultaneous and successive) 2.5: Structure of pollen and Male gametophyte 2.6: Types of pollen tetrad - linear, isobilateral, tetrahedral, decussate, T- shaped.	04	Covered
December 2019	3:Megasporangium (Ovule)	3.1: Structure of Ovule. 3.2: Types of ovule: i) Orthotropous ii) Anatropous iii) Amphitropous iv) Hemianatropous v) Compylotropous vi) Circinotropous 3.3: Types of Embryo sac. i) Monosporic (*Polygonum*) ii) Bisporic (*Allium*) iii) Tetrasporic (*Peperomia*)	05	Covered
	4: Pollination and Fertilization	4.1: Definition and Types of Pollination 4.2: Fertilization i) Definition ii) Entry of pollen tube into ovule iii) Process of double fertilization and tripl fusion iv) Significance of double fertilization mechanism.	05	Covered
January 2020	5: Endosperm	5.1: Definition. 5.2: Structure and function of endosperm. 5.3: Types of Endosperm. i) Nuclear ii) Cellular iii) Helobial.	03	Covered
	6: Embryo	6.1: Definition 6.2: Structure of Dicot Embryo e.g. *Capsella brussa pastories* (Development not expected) 6.3: Structure of monocot embryo e.g. *Sagittaria* (Development not expected)	03	Covered

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Faculty wise/ Department wise Teaching Plan 2019-20

Annual teaching plan for academic year 2019 -20

Class- F.Y. B.Sc. Subject-Zoology Paper (II) Zoo - 102: Animal Diversity - II

Sr. No	Month	Topic to be covered	Lectures required	Remark
1	July	**Unit 1: Protochordates 3** General features and Phylogeny of Protochordata **Unit 2: Agnatha 3** General features of Agnatha and classification of cyclostomes up to classes	11	Completed
2	August	**Unit 3: Pisces 4** General features and Classification up to orders; Osmoregulation in Fishes **Unit 4: Amphibia 5** General features and Classification up to orders; Metamorphosis in frog, Parental care,	10	Completed
3	September	**Unit 5: Reptiles 5** General features and Classification up to orders; Extinct reptiles, Poisonous and nonpoisonous snakes, Biting mechanism in snakes **Unit 6: Aves 5** General features and Classification up to orders; Flight adaptations in birds	12	Completed
4	October	**Unit 7: Mammals 5** Classification up to orders; Origin of mammals		

V. B. Chaudhari

DEPARTMENT OF ZOOLOGY SHIRPUR SPDM COLLEGE

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Faculty wise/ Department wise Teaching Plan 2019-20

Annual teaching plan for academic year 2019 -20

Class- F.Y. B.Sc. Subject-Zoology Paper (II) **Zoo – 202: Developmental Biology**

Sr. No	Month	Topic to be covered	Lectures required	Remark
1	January	**Unit 1: Early Embryonic Development** Gametogenesis: Spermatogenesis and oogenesis w.r.t. mammals, vitellogenesis in birds; Fertilization: external (amphibians), internal (mammals), blocks to polyspermy; Early development of frog and humans (structure of mature egg and its membranes, patterns of cleavage, fate map, up to formation of gastrula);types of morphogenetic movements; Fate of germ layers; Neurulation in frog embryo	12	
2	February	**Unit 2: Late Embryonic Development** Implantation of embryo in humans, Formation of human placenta and functions, other types of placenta on the basis of histology; Metamorphic events in frog life cycle and its hormonal regulation.	10	
3	March	**Unit 3: Control of Development** Fundamental processes in development (brief idea) – Gene activation, determination, induction, Differentiation, morphogenesis, intercellular communication, cell movements and cell death	08	

Y. B. Chaudhari

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DEPARTMENT OF ZOOLOGY
SPDM College, Shirpur

Faculty wise/ Department wise Teaching Plan 2019-20

Department of Statistics

TEACHING PLAN FOR THE YEAR 2019-2020

Name of the Lecturer:- Prof. D. B. Patil

Subject:- ST 101- Descriptive Statistics-I **Class :** F. Y. B. Sc.

Sr. No.	Month	Topic	Expected Periods	Remark
1	July	**Introduction to Statistics** a) Meaning of Statistics b) Scope of Statistics c) Statistical institutes and organizations d) Limitations of statistics	03	Completed
2	July	**Concept of Population and Sample** a) Population, statistical population, census, sample, sampling. b) Objectives of sampling. Advantages of sampling over census. c) Methods of sampling; d) Illustrations from real life situations	04	Completed
3	August	**Presentation of Data** a) Meaning of data b) Attributes and Variables c) Primary data and Secondary data. d) Measurement scales: e) Illustrations from real world situations. f) Tabular presentation of data g) Diagrammatic representation of data: h) Frequency distribution: i) Cumulative frequency distribution:	10	Completed
4	August	**Measures of Central Tendency** a) Meaning of central tendency b) Types of Mean c) Median: Definition, computation formula d) Mode: Definition, computation formula	12	Completed
5	September	**Measures of Dispersion** a) Meaning of Dispersion b) Range Definition, Merits and Demerits c) Quartile Deviation (Q.D.) d) Mean Squared Deviation. e) Absolute and relative measures of dispersion	10	Completed
6	September	**Moments** a) Raw & central moments with Sheppard's correction b) Moments about an arbitrary constant c) Relation between central moments and raw moments (up to 4-th order).	06	Completed

Subject Incharge
(Prof. D. B. Patil)

Faculty wise/ Department wise Teaching Plan 2019-20

Department of Statistics

TEACHING PLAN FOR THE YEAR 2019-2020

Name of the Lecturer:- Prof. R. H. Wagh

Subject :- ST-102 Probability and Probability Distributions-I **Class :** F. Y. B. Sc.

Sr. No.	Month	Topic	Expected Periods	Remark
1	July	**Sample Space And Events** a) Meaning of experiment. b) Concept of occurrence of an event c) Union and intersection of two or more events d) Exhaustive events, Mutually exclusive events e) Representation of sample space and events by Venn diagram f) Examples and problem	08	Completed
2	July	**Probability** a) Equiprobable sample space b) Non-Equiprobable sample space c) Axioms of probability d) Probability of union of two events	15	Completed
3	August	**Conditional Probability and Independence** a) Independence of events b) Conditional probability of an event c) Multiplication theorem of probability d) Partition of sample space e) Theorem of total probability with proof. f) Bayes' theorem	10	Completed
4	August	**Univariate Probability Distribution** a) Concepts and definition of discrete random variable. b) Probability mass function of a discrete random variable c) Distribution functions of a discrete random variable. d) Statement of properties of a distribution function. e) Concept of symmetric random variable f) Median and mode of a discrete random variable. g) Definition of Expectation of discrete random variable. h) Function of random variable.	12	Completed

Subject Incharge
(Prof. R. H. Wagh)

Faculty wise/ Department wise Teaching Plan 2019-20

Department of Statistics

TEACHING PLAN FOR THE YEAR 2019-2020

Name of the Lecturer:- Prof. R. H. Wagh

Subject :- ST-103 Statistics Practical-I **Batch-** I **Class :** F. Y. B. Sc.

Sr. No.	Month	Topic	Expected Periods	Remark
1	August	Introduction to MS-Excel (2007 or higher version)	01	Completed
2	August	Drawing random samples by using SRSWOR, SRSWR, Stratified, systematic sampling etc.	03	Completed
3	September	Graphical representation of statistical data Histogram, simple bar diagram, multiple bar diagram, frequency curve, frequency polygon, ogives, Pareto diagram etc.	02	Completed
4	September	I. Computation of Measures of central tendency for ungrouped data II. Computation of Measures of central tendency for grouped data	04	Completed
5	October	I. Computation of Measures of dispersion for ungrouped data II. Computation of Measures of dispersion for grouped data	02	Completed
6	October	Raw and Central Moments	02	Completed
7	November	Computation of measures of skewness and kurtosis.	02	Completed
8	December	Scatter diagram, correlation coefficient	02	Completed
9	December	Fitting of lines of regression and computation of correlation coefficient	04	Completed
10	December	Rank Correlation	02	Completed
11	January	Non linear regression	03	Completed
12	January	Fitting of Binomial and Poisson distribution	04	Completed
13	January	Model sampling from Poisson, Binomial and Hypergeometric distributions	02	Completed
14	February	Applications of Binomial and Hypergeometric distributions		
15	February	Plotting of Lorenz curve and computation of Gini coefficient	02	Completed
16	February	Practical based on analysis of data collected by students in a batch of size not exceeding 15 Students	04	Completed

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