Sant Gadge Baba Amravati University Amravati FACULTY : STATISTICS

Scheme of Teaching, Learning, Examination & Evaluation leading to Two Years PG Degree Master of Statistics following Three Years UG Programme wef 2023-24

(Two Years- Four Semesters Master's Degree Programme- NEPv23with Exit and Entry Option M.Sc. Statistics Second Year Semester- III

S. N.	Subject	Type of Course	Subject Code		1		ng & Lea			Y ear S	Duration Of Exam			Examina	ation & Eval	luation Scl	heme		
ΙΝ.		Course	Code								Hours		Max	imum Marl	76		Mir	nimum Passi	nα
				Т	eaching Per V		od		Credits		-	The			ctical	Total Marks		11111111111111111	ing
				L	Т	Р	Total	L/T	Practical	Total		Theory+ MCQ Internal	Theory External	Internal	External		Marks Internal	Marks External	Grade
1	Contemporary Applied Technological Advancements in Research relevant/supportive to Major DSC-I3 Statistical Inference	Th-Major		4			4	4		4	3	40	60			100	16	24	Р
2	DSC-II.3 Mathematical . Programming	Th-Major		4			4	4		4	3	40	60			100	16	24	Р
2	DSC-III.3 Linear and Non Linear Modeling	Th-Major		3			3	3		3	3	40	60			100	16	24	Р
3	DSE-III /MOOC A) Operations Research B) Bioassay C) Econometrics, D) Actuarial Statistics	Th-Major Elective		3			3	3		3	3	40	60			100	16	24	Р
																		m Passing arks	
4	DSC-I.3 Lab/Practical on DSC I.3	Pr-Major				2	2		1	1	3			25	25	50	2	25	Р
5	DSC-II.3Lab Practical on DSC II.3	Pr-Major				2	2		1	1	3			25	25	50	2	25	Р
6	DSCIII.3 Lab Practical on DSC III3	Pr-Major				2	2		1	1	3			25	25	50	2	25	Р
7	DSE-IIILab /MOOC Lab/Lab Practical based on DSE A/B/C/D	Pr-Major Elective				2	2		1	1	3			25	25	50	2	25	Р
8	Research Project Phase-I	Major			2	4	6	2	2	4				50		50	2	25	Р
8	Co-curricular Courses: Health and wellness, Yoga Education, Sports and Fitness, Cultural Activities, NSS/NCC, Fine/Applied/Visual/Performing Arts During Semester I, II, III and IV	Generic Optional			Hours ulative em I to IV	ly													

TOTAL					22			650		

L: Lecture, T: Tutorial, P: Practical/Practicum

Pre-requisite Course mandatory if applicable: **Prq**, Theory : **Th**, Practical/Practicum: **Pr**, Faculty Specific Core: **FSC**, Department Specific Core: **DSC**, Department Specific Elective: **DSE**, Laboratory: Lab, OJT: On Job Training: Internship/ Apprenticeship; Field projects: **FP**; **RM**: Research Methodology; Research Project: **RP**, Co-curricular Courses: CC

Note: **Co-curricular Courses:**In addition to the above, CC also include but not limited to Academic activities like paper presentations in conferences, Aavishkar, start-ups, Hackathon, Quiz competitions, Articlepublished, Participation in Summer school/ Winter School / Short term course, Scientific Surveys, Societal Surveys, Field Visits, Study tours, Industrial Visits, online/offline Courses on Yoga (Yoga for IQ development, Yoga for Ego development, Yoga for Anger Management, Yoga for Eyesight Improvement, Yoga for Physical Stamina, Yoga for Stress Management, etc.). These can be completed cumulatively during **Semester I, II, III and IV. Its credits and grades will be reflected in semester IV credit grade report.**

Sant Gadge Baba Amravati University, Amravati FACULTY : STATISTICS

Scheme of Teaching, Learning, Examination & Evaluation leading to Two Years PG DegreeMaster of Statistics following Three Years UG Programme wef 2023-24 (Two Years- Four Semesters Master's Degree Programme- NEPv23 with Exit and Entry Option

-		1					,		ond Year	Semest		Level 0.5							
S. N.	Subject	Type of Course	Subject Code		ſ	[eachi	ng & Lear	rning So	cheme		Duration Of Exam Hours			Examina	ation & Eval	uation Scl	ieme		
											nours		Max	imum Marl	<s< td=""><td></td><td>Mir</td><td>nimum Passi</td><td>ng</td></s<>		Mir	nimum Passi	ng
				Т	eaching Per V		od		Credits			The	ory	Pra	ctical	Total Marks			0
				L	Т	Р	Total	L/T	Practical	Total		Theory+ MCQ Internal	Theory External	Internal	External		Marks Internal	Marks External	Grade
1	DSC-I.4 Computational Statistics	Th-Major		4			4	4		4	3	40	60			100	16	24	Р
2	DSC-II.4, Multivariate Analysis	Th-Major		4			4	4		4	3	40	60			100	16	24	Р
3	DSC- III.4 Stochastic Processes	Th-Major		3			3	3		3	3	40	60			100	16	24	Р
4	DSE-IV /MOOC A) Bayesian Inference B) Statistical Ecology C) Regression Analysis D) Reliability Theory	Th-Major Elective		3			3	3		3	3	40	60			100	16	24	Р
																		m Passing arks	
5	DSC-I.3 Lab/Practical on DSC I.4	Pr-Major				2	2		1	1	3			25	25	50	2	25	Р
6	DSC-II.3Lab Practical on DSC II.4	Pr-Major				2	2		1	1	3			25	25	50		25	Р
7	DSCIII.3 Lab Practical on DSC III4	Pr-Major				2	2		1	1	3			25	25	50	2	25	Р
8	DSE-IIILab /MOOC Lab/Lab Practical based on DSE A/B/C/D	Pr-Major Elective				2	2		1	1	3			25	25	50	2	25	Р
9	Research Project Phase-II	Major			2	8	10	2	4	6	3			75	75	150	7	75	Р
10	Co-curricular Courses: Health and wellness, Yoga Education,	Generic Optional			Hours ulative m I to	ly													

M. Sc, Statistics second Year Semester- IV [Level 6.5]

Sports and Fitness, Cultural]	IV								
Activities, NSS/NCC,											
Fine/Applied/Visual/Performing											
Arts During Semester I, II, III											
and IV											
TOTAL						24			750		

L: Lecture, T: Tutorial, P: Practical/Practicum

Pre-requisite Course mandatory if applicable: **Prq**, Theory : **Th**, Practical/Practicum: **Pr**, Faculty Specific Core: **FSC**, Department Specific Core: **DSC**, Department Specific Elective: **DSE**, Laboratory: **Lab**, **OJT**: On Job Training: Internship/ Apprenticeship; Field projects: **FP**; **RM**: Research Methodology; Research Project: **RP**, **Co-curricular Courses: CC**

Note: **Co-curricular Courses:**In addition to the above, CC also include but not limited to Academic activities like paper presentations in conferences, Aavishkar, start-ups, Hackathon, Quiz competitions, Articlepublished, Participation in Summer school/ Winter School / Short term course, Scientific Surveys, Societal Surveys, Field Visits, Study tours, Industrial Visits, online/offline Courses on Yoga (Yoga for IQ development, Yoga for Ego development, Yoga for Anger Management, Yoga for Eyesight Improvement, Yoga for Physical Stamina, Yoga for Stress Management, etc.). These can be completed cumulatively during **Semester I, II, III and IV. Its credits and grades will be reflected in semester IV credit grade report.**

Table: Comprehensive Credits distribution amongst the type of Courses over Two Years (Four Semesters) PG Programme and Minimum Credits to be earned for PG Degree[Master in Faculty -------Major -----]

Sr.	Type of Cours	e		Total Credits	Minimum
No.				Offered	Credits Required
1	MAJOR				
	i. DSC	56			56
	ii. DSE	16			16
			TOTAL	72	72
2	Research Methodology and IPR (FSC/DSC:	04		04	04
	Major)				
2	On Job Training, Internship/ Apprenticeship;	04		04 for 120 Hours	02
	Field projects Related to Major			OJT/FP cum.	(Minimum 60
					Hours OJT/FP is

				mandatory)
3	Research Project	10	10	10
	OPTIONAL			
4	Co-Curricular Courses (offline and/or online		Limited to	00
	as applicable): Co-curricular Courses: Health and		Maximum 03 only	
	wellness, Yoga Education, Sports and Fitness, Cultural Activities, NSS/NCC, Fine/Applied/Visual/Performing Arts, CC also include but not limited to Academic activities like paper presentations in conferences, Aavishkar, start-ups, Hackathon, Quiz competitions, Articlepublished, Participation in Summer school/ Winter School / Short term course, Scientific Surveys, Societal Surveys, Field Visits, Study tours, Industrial Visits, online/offline Courses on Yoga (Yoga for IQ development, Yoga for Ego development, Yoga for Anger Management, Yoga		(For 90 Hours of CC cumulatively)	
	for Eyesight Improvement, Yoga for Physical Stamina, Yoga for Stress Management, etc.).			
	TOTAL			
	TOTAL		93	88

Table A: Comprehensive Credit Distribution for CC

S. N.	Activities (offline/online as applicable)	Credits at	t Levels					Letter Grade
IN.		College	University	State	Zone if exist		International if exist	_
	Health and wellness, Yoga* Competitions *If a Course (online/offline) on Yoga is completed for 60 Hours, 2 credits will be awarded to the student (1 Credit = 30 Hours)	1	2	3	4	5	6	P (Pass)
2	Unnat Bharat Abhiyan[UBA]	1	2	3	4	5	6	P (Pass)
3	Sports and fitness activities (see separate Table B)	1	1 / 2	2/3	3 / 4	4 / 5	5 / 6	P (Pass)
4	Cultural activities, Fine/Applied/Visual/Performing Arts	1	2	3	4	5	6	P (Pass)
5	N.S.S. activities Camps	1	2	3	4	5	6	P (Pass)

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6	Academic activities like Research Paper/Article/Poster presentations,	1	2	3	4	5	6	P (Pass)
	Aavishkar, start-up, Hackathon, Quiz competitions, other curricular,							
	co-curricular activities, students exchange programme etc.							
			1	2	-	4	6	P (Pass)
	Research Paper/Article published							
7	Participation in Summer school/Winter School / Short term course	2 Credits	1	1	1		I	P (Pass)
	(not less than 30 hours 1 or 2 weeks duration)	4 Credits						P (Pass)
	(not less than 60 hours 2 or 3 weeks duration)							
		2 Credits	3					P (Pass)
	Scientific Surveys, Societal Surveys							
	Field Visits, Study tours, Industrial Visits,	1 Credit						P (Pass)
8	NCC Activities	As given	in Tabl	e C				

Table B: Credit Distribution for Sports and Fitness

Sr. No.	Particulars of Sports Status (Individual/ Team)	Credits	Letter Grade
1	College Level Participation	1	P (Pass)
2	University Level Participation	1	P (Pass)
3	University Level Rank 1, 2, 3	2	P (Pass)
4	State Level Participation	2	P (Pass)
5	State Level Rank 1, 2, 3	3	P (Pass)
6	Zonal Level Participation	3	P (Pass)
7	Zonal Level Rank 1, 2, 3	4	P (Pass)
8	National Level Participation	4	P (Pass)
9	National Level Rank 1, 2, 3	5	P (Pass)
10	International Level Participation	5	P (Pass)
11	International Level 1,2,3	6	P (Pass)

Table C: Credit Distribution for NCC activities

Sr. No.	Particulars of NCC Activities	Credits	Letter Grade
1	Participation in NCC activities	1	P (Pass)
2	'B' Certificate obtained	2	P (Pass)
3	'C' Certificate obtained	3	P (Pass)
4	State Level Participation	4	P (Pass)
5	National level Participation	5	P (Pass)
6	International Level Participation	6	P (Pass)