Course Structure and Scheme of Examinations for PG Programme in Statistics- One Year (NEP 2020)

Programme code – PGFMS005

Semester – I

Course Code	Course Title	Credit Hours	Percentage Change
		orean mouns	made as per recommendations of
P1STTC101	Advanced Design of Experiments		expert committee
	2 colga of Experiments	04	20%-25% change in
P1STTC102	Artificial Intelligence and Machine	04	syllabus 20%-25% change in
	Learning	04	syllabus
P1STTC103	Statistical Modelling and Computing	04	100% New Course
P1STRC104	Internship/Survey/Industrial Training		
P1STPC105		01	100% New Course
F151PC105	Computing with R	04	15%-20% change in
D1CTDC106	17		syllabus
P1STPC106	Advanced Data Analytics with SPSS	04	45%-50% change in
D1CTDC105	G :		syllabus
P1STPC107	Seminar	01	100% New Course
Any One of t	he following Elective Courses		
P1STTE108	Advanced Statistical Inference-II	04	15%-20% change in
			syllabus
P1STTE109	Information Theory	04	45%-50% change in
			syllabus
P1STTE110	Advanced Sampling Techniques	04	20%-25% change in
			syllabus
P1STTE111	Advanced Biostatistics	04	20%-25% change in
			syllabus
P1STTE112	Advanced Reliability Theory	04	20%-25% change in
			syllabus
P1STTE113	Advanced Bayesian and Sequential	04	100% New Course
	Inference		
	Total Credit	26	
P1STMO151	MOOC/SWAYAM	04	No Change

Semester-II

Course Code	Course Title	Credit Hours	Percentage Change made as per
			recommendations of
			expert committee
P1STTC201	Stochastic Processes	04	10%-15% change in syllabus
P1STTC202	Optimization Techniques for Decision	04	20%-25% change in syllabus
	Making	16	100% change, new
P1STRC203	Research	N= 102	

2 Mm

Just Thy

0/

		Ø.
Total Credit	24	course
	24	

L - Number of Lecture, Tu - Number of Tutorials, P - Number of Practical hours.

SEMESTER-WISE CREDITS EARNED BY STUDENT

C	DE CREDITS EARNED BY STUDENT
Semester	
Semester-1	Credit Hours
Semester-2	26
	24
Total Credits Earned	
	50
CHEMP	

SCHEME OF EXAMINATIONS FOR THEORY COURSES OF 04 CREDITS

MINOR TEST I	Syllabus to be covered in the examination	Time allotted for the examination	% Weightage (Marks)
(after 30 days) MINOR TEST II	25%	1 hour	20
(after 60days)	26 to 50%	1 hour	20
Major Test (after 90 days)	100%	3 hours	60
	Total		100

The student shall be continuously evaluated during the conduct of each course based on his/her performance as follows:

Minor Test I and Minor Test II

The Subjective Tests of Minor Test I and Minor Test II would consist of 10 compulsory MCQ of one mark each and THREE subjective type questions (05 marks each). Students are required to answer any TWO questions out of three asked questions. No preparatory holidays shall be provided for the Test I and Test II.

Those candidates who have appeared in Minor Test I and II and failed to get the minimum required marks i.e. 14 out of 40 will be eligible to re-appear in the Test I and Test II only once.

Major Test

W/ (),

The Major test will comprise of two sections, Section-A and Section-B.

Section-A will have one compulsory question comprising of 10 parts (minimum 02 from each unit) of 03 marks each. (10*3=30 marks)

Section-B will have 04 questions of 15 marks each to be set from the last two units (02 from each unit). In Section B students are required to attempt 01 question from each unit. (15*2=30 marks)

In major test there should not be a gap of more than two days in between two tests.

SCHEME OF EXAMINATIONS FOR SEMINAR COURSES

This

The seminar presentation shall carry 25 marks and distribution of marks shall be as under:

`ŀ	e seminar presenta	tion shall carry	25 marks and distribution Total	
	Presentation	Contents	Domain Knowledge 25	
	05	10	10	a.

Evaluation Criteria: Each student will be allotted a mentor under whose guidance student will prepare the Seminar

Each Seminar presentation will be of duration 45-60 minutes. Evaluation of the seminar will be done by the DAC month. will be done by the DAC members on the above parameters. There will be no external examination/viva-voca avantable. examination/viva-voce examination. The schedule of the Seminar will be issued by the Head of the Department Head of the Department.

SCHEME OF EXAMINATION FOR PRACTICAL COURSES OF 04 CREDITS

Each practical Internal and External paper shall carry 50 marks and will be of 04 hours and distribution of marks shall be as under:

Component	Marks	Remarks
Internal	25	After 60 days on completion of 50 % of syllabus Written Exam: 20 Marks (Attempt two Practical of 10 Marks each out of three Practicals) Viva Voce:05 Marks
External	75	On completion of entire syllabus Written Exam: 40 Marks (two Practicals each of 20 Marks out of three Practicals) Case Study Report:10 Viva Voce:25 Marks
Total	100	

External Practical examination shall be conducted by Board of Examiners consisting of Head of the Department, concerned teacher and outside expert to be appointed by the Vice-Chancellor out of the panel to be provided by the Head of the Department who shall evaluate/assess final practical performance of the students.

SCHEME OF EXAMINATION FOR PRACTICAL COURSES OF 01 CREDIT

Each practical paper shall have the following distribution of marks and will be of 03 Hours:

Component	Marks	Remarks
Internal	10	After 60 days on completion of 50 % of syllabus Written Exam: 10 Marks (Attempt two Questions of 05

		Marks Each out of Three asked questions from Module-1)
External	15	On completion of entire syllabus Written Exam: 10 Marks (Attempt two questions of 05 Marks Each out of Three Questions from Module-2) Viva Voce: 05 Marks
Total	25	

External Practical examination shall be conducted by Board of Examiners consisting of Head of the Department and the concerned teacher who shall evaluate/assess final practical performance of the students.

SCHEME OF EXAMINATION FOR SUMMER INTERNSHIP / SURVEY / INDUSTRIAL TRAINING

The internship shall be under a departmental teacher who will be designated as Internship Supervisor. After completion of summer internship students will have to produce a report related to the work carried out duly signed by the internship supervisor and Head of the department.

The Board of Examiners consisting of Head of the Department, one teacher of concerned department, and internship supervisor shall evaluate/assess performance of the students.

The work will be assessed on the following components:

Contents of the Report	Seminar Presentation	Domain Knowledge	Total
10	05	10	25

Note: The minimum passing criteria for the summer internship is 40%.

SCHEME OF EXAMINATION FOR RESEARCH

External Research examination shall be conducted by Board of Examiners consisting of Head of the Department, concern teacher and one outside expert to be appointed by the Vice-Chancellor out of the panel to be provided by the Head of the Department who shall evaluate/assess dissertation of the students.

The research work will be assessed on the following components:

Content Quality of Report/Dissertation	Seminar Presentation	Domain Knowledge	Total
150	100	150	Yirke
- H-12-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2	100	150	400

his Jin.

Course Structure and Scheme of Examinations for PG Programme in Statistics- One Year (NEP 2020)

Programme code – PGFMS005

Semester - I

Course Code	Course Title	Credit Hours	Contact Hours
			per week
PISTTC101	Advanced D	,	L-Tu-P
PISTTC102	Advanced Design of Experiments	04	4-1-0
	Artificial Intelligence and Machine Learning	04	4-0-1
PISTTC103	Statistical Modelling and Computing	04	4-0-1
P1STRC104	Internship/Survey/Industrial Training		
P1STPC105	Computing with R	01	0-0-1
P1STPC106	Advanced Data Analytics with SPSS	04	0-0-4
P1STPC107	Seminar Seminar	04	0-0-4
	following Elective Courses	01	0-1-0
P1STTE108	Advanced Statistical Advanced		
P1STTE109	Advanced Statistical Inference-II	04	4-1-0
PISTTE110	Information Theory	04	4-1-0
PISTTE111	Advanced Sampling Techniques	04	4-1-0
PISTTE112	Advanced Biostatistics	04	4-1-0
P1STTE113	Advanced Reliability Theory	04	4-1-0
	Advanced Bayesian and Sequential Inference	04	4-1-0
P1STMO151	Total Credit	26	
1911/10121	MOOC/SWAYAM	04	4-0-0

Semester-II

Course Code	Course Title	Credit Hours	Contact Hours per week
P1STTC201	Stochastic Processes	0.4	L-Tu-P
P1STTC202	Optimization Techniques for Decision	04	4-1-0
P1STRC203	Making Research		4-1-0
1511(205	Total Credit	16	0-0-16
	Total Cleuit	24	

L – Number of Lecture, Tu – Number of Tutorials, P – Number of Practical hours.

SEMESTER-WISE CREDITS EARNED BY STUDENT

Semester	Credit Hours
Semester-1	26
Semester-2	24
Total Credits Earned	50

Mr Leman &

She Sh

SCHEME OF EXAMINATIONS FOR THEORY COURSES OF 04 CREDITS

	Syllabus to be covered in the examination	Time allotted for the examination	% Weightage (Marks)
MINOR TEST I	25%	1 hour	20
(after 30 days)			
MINOR TEST II	26 to 50%	1 hour	20
(after 60days)			
Major Test (after	100%	3 hours	60
90 days)			
	Total		100

The student shall be continuously evaluated during the conduct of each course based on his/her performance as follows:

Minor Test I and Minor Test II

The Subjective Tests of Minor Test I and Minor Test II would consist of 10 compulsory MCQ of one mark each and THREE subjective type questions (05 marks each). Students are required to answer any TWO questions out of three asked questions. No preparatory holidays shall be provided for the Test I and Test II.

Those candidates who have appeared in Minor Test I and II and failed to get the minimum required marks i.e. 14 out of 40 will be eligible to re-appear in the Test I and Test II only once.

Major Test

The Major test will comprise of two sections, Section-A and Section-B.

Section-A will have one compulsory question comprising of 10 parts (minimum 02 from each unit) of 03 marks each. (10*3=30 marks)

Section-B will have 04 questions of 15 marks each to be set from the last two units (02 from each unit). In Section B students are required to attempt 01 question from each unit. (15*2=30 marks)

In major test there should not be a gap of more than two days in between two tests.

SCHEME OF EXAMINATIONS FOR SEMINAR COURSES

The seminar presentation shall carry 25 marks and distribution of marks shall be as under:

Presentation	Contents	Domain Knowledge	Total
05	10	10	25

Evaluation Criteria: Each student will be allotted a mentor under whose guidance student will prepare the Seminar.

Each Seminar presentation will be of duration 45-60 minutes. Evaluation of the seminar

6

will be done by the DAC members on the above parameters. There will be no external examination/viva-voce examination. The schedule of the Seminar will be issued by the Head of the Department.

SCHEME OF EXAMINATION FOR PRACTICAL COURSES OF 04 CREDITS

Each practical Internal and External paper shall carry 50 marks and will be of 04 hours and distribution of marks shall be as under:

Component	Marks	Remarks
Internal	25	After 60 days on completion of 50 % of syllabus Written Exam: 20 Marks (Attempt two Practical of 10 Marks each out of three Practicals) Viva Voce: 05 Marks
External	75	On completion of entire syllabus Written Exam: 40 Marks (two Practicals each of 20 Marks out of three Practicals) Case Study Report: 10 Viva Voce: 25 Marks
Total	100	

External Practical examination shall be conducted by Board of Examiners consisting of Head of the Department, concerned teacher and outside expert to be appointed by the Vice-Chancellor out of the panel to be provided by the Head of the Department who shall evaluate/assess final practical performance of the students.

SCHEME OF EXAMINATION FOR PRACTICAL COURSES OF 01 CREDIT

Each practical paper shall have the following distribution of marks and will be of 03 Hours:

Component	Marks	Remarks
Internal	10	After 60 days on completion of 50 % of syllabus Written Exam: 10 Marks (Attempt two Questions of 05 Marks Each out of Three asked questions from Module-1)
External	15	On completion of entire syllabus Written Exam: 10 Marks (Attempt two questions of 05 Marks Each out of Three Questions from Module-2) Viva Voce: 05 Marks
Total	25	

1 Ms July

The M

External Practical examination shall be conducted by Board of Examiners $consisting_{cop}$ Head of the Department and the concerned teacher who shall evaluate/assess final practical performance of the students.

SCHEME OF EXAMINATION FOR SUMMER INTERNSHIP / SURVEY / INDUSTRIAL TRAINING

The internship shall be under a departmental teacher who will be designated as Internship Supervisor. After completion of summer internship students will have to produce a report related to the work carried out duly signed by the internship supervisor and Head of the department.

The Board of Examiners consisting of Head of the Department, one teacher of concerned department, and internship supervisor shall evaluate/assess performance of the students.

The work will be assessed on the following components:

Contents of the Report	Seminar Presentation	Domain Knowledge	Total
10	05	10	25

Note: The minimum passing criteria for the summer internship is 40%.

SCHEME OF EXAMINATION FOR RESEARCH

External Research examination shall be conducted by Board of Examiners consisting of Head of the Department, concern teacher and one outside expert to be appointed by the Vice-Chancellor out of the panel to be provided by the Head of the Department who shall evaluate/assess dissertation of the students.

The research work will be assessed on the following components:

Content Quality of Report/Dissertation	Seminar Presentation	Domain Knowledge	Total
150	100	150	400

Lumar July

Shir

i e il