

Self-Study Report (SSR) - Criterion-1

Information to be submitted by Departments/Directorates/Centres for Each Programme Offered

1	Department/Directorate/Centre/Institute:	Department of Statistics		
2	Name of the Programme Offered:	M.A. / M.Sc. Statistics		
3	Departmental website link of the complete/updated syllabus:	https://statistics.uok.edu.in/Files/3df6de46-e015-49ef-8ce5-b55d62405446/Menu/1st_sem2022_cea4871a-649b-4ddb-a079-be152d2bde6d.pdf https://statistics.uok.edu.in/Files/3df6de46-e015-49ef-8ce5-b55d62405446/Menu/2nd_sem2022_60176532-5784-4b5a-b001-8767abc83827.pdf https://statistics.uok.edu.in/Files/3df6de46-e015-49ef-8ce5-b55d62405446/Menu/3rd_sem2022_a4180777-2770-48c7-9615-6d7c85cc81e6.pdf https://statistics.uok.edu.in/Files/3df6de46-e015-49ef-8ce5-b55d62405446/Menu/4th_sem2022_dca1bb64-0f66-4ffb-aa07-e8cb51a30523.pdf		
4	Number of Courses in the Programme?			48
5A	Number of New Courses introduced in the Programme since 2019?			2
5B	List of New Courses introduced since 2019:			
	<i>Course Code</i>	<i>Course Title</i>	<i>Brief Description</i>	
	ST22104CR	Applied Statistics	This course provides a review of techniques that are useful for analyzing data collected over a period of time while Index Number analysis is useful when forecasting events and compilation of various indices like consumer price index etc. After successful completion of this course, the students will be able to apply the the Time Series data to find the trend. Analyze Time Series data inorder to check the behaviour of trend. Understand the applications of Index Numbers.	
	ST22304CR	Order Statistics	Order statistics refer to the collection of sample observations sorted in ascending order and are among the most fundamental tools in non-parametric statistics and inference. On successful completion of this course, the students will be able to demonstrate the understanding of order statistics.	
5C	Departmental website link in support of New Courses introduced in the Programme since 2019.	https://statistics.uok.edu.in/Files/3df6de46-e015-49ef-8ce5-b55d62405446/Menu/1st_sem2022_cea4871a-649b-4ddb-a079-be152d2bde6d.pdf https://statistics.uok.edu.in/Files/3df6de46-e015-49ef-8ce5-b55d62405446/Menu/3rd_sem2022_a4180777-2770-48c7-9615-6d7c85cc81e6.pdf		
6A	Dates of syllabus revisions during the last five years. (2019-2023)	23-05-2022		
6B	Departmental website link in support of syllabus revisions.	https://statistics.uok.edu.in/Files/3df6de46-e015-49ef-8ce5-b55d62405446/Menu/BO-PG_1bf9b020-a521-4151-9e2f-c84ba351eeb1.jpg		
7	Are Programme Outcomes (POs) clearly mentioned in the syllabus? (Y/N)			Y
8	Are the Course Outcomes (COs) mentioned for each course of the programme? (Y/N)			Y
9A	Does POs & COs have relevance to local, regional & global developmental needs? (Y/N)			Y
9B	List of courses addressing Local Needs:			
	<i>Course Code</i>	<i>Course Title</i>	<i>Brief Justification</i>	
	ST22102CR	Sampling Theory	This course is designed to develop skill to understand importance of sampling theory and various methods of sampling techniques that are used in planning.	
	ST22103CR	Statistical Computing	This course is designed to help the students to learn data analysis in Minitab. Minitab provides a variety of tools for data visualisation and analysis. It is widely used in various industries and academic institutions for statistical analysis, quality improvement, and process optimization.	
	ST22203CR	Advanced Statistical Computing	This Course is developed to help the students to learn various advanced techniques of data analysis in R Software. R has top-notch tools for visualization, reporting, and interactivity, which are crucial both for Data Science and business domains.	
	ST22403CR	Design and Analysis of Experiments	The course has been designed to guide students to develop an understanding of the experimental skills required to perform a scientific investigation.	
9C	List of courses addressing Regional Needs:			
	<i>Course Code</i>	<i>Course Title</i>	<i>Brief Justification</i>	
	ST22102CR	Sampling Theory	This course is designed to develop skill to understand importance of sampling theory and various methods of sampling techniques that are used in planning .	
	ST22103CR	Statistical Computing	This course is designed to help the students to learn data analysis in Minitab. Minitab provides a variety of tools for data visualisation and analysis. It is widely used in various industries and academic institutions for statistical analysis, quality improvement, and process optimization.	
	ST22203CR	Advanced Statistical Computing	This Course is developed to help the students to learn various advanced techniques of data analysis in R Software. R has top-notch tools for visualization, reporting, and interactivity, which are crucial both for Data Science and business domains.	

	ST22303CR	Survey Project	This course is developed so that the students will learn the organization and implementation of survey projects.
	ST22402CR	Industrial Statistics and Reliability Theory	This course is designed so that students will be able to apply suitable SQC techniques & tools to control processes at various phases of work problems.
9D	List of courses addressing Global Needs:		
	<i>Course Code</i>	<i>Course Title</i>	<i>Brief Justification</i>
	ST22202CR	Linear Models and Regression Analysis	This course is designed to develop an in depth understanding of regression analysis and its applications in forecasting.
	ST22203CR	Advanced Statistical Computing	This Course is developed to help the students to learn various advanced techniques of data analysis in R Software. R has top-notch tools for visualization, reporting, and interactivity, which are crucial both for Data Science and business domains.
	ST22309DCE	Data Analysis using SPSS	This Course has been designed to help the students to learn various advanced techniques of data analysis Using SPSS Software.
	ST22302CR	Multivariate Analysis	The course has been designed so that students can understand the multivariate techniques used in health , forecasting and finance.
10A	Does the Programme offer focus on Employability/ Entrepreneurship/ Skill development courses? (Y/N)		Y
10B	List of Employability Courses:		
	<i>Course Code</i>	<i>Course Title</i>	<i>Brief Justification</i>
	ST22102CR	Sampling Theory	This course is designed to develop skill to understand importance of sampling theory and various methods of sampling techniques that are used in planning.
	ST22103CR	Statistical Computing	This course is designed to help the students to learn data analysis in Minitab. Minitab provides a variety of tools for data visualisation and analysis. It is widely used in various industries and academic institutions for statistical analysis, quality improvement, and process optimization.
	ST22202CR	Linear Models and Regression Analysis	This course is designed to develop an in depth understanding of regression analysis and its applications in forecasting.
	ST22203CR	Advanced Statistical Computing	This Course is developed to help the students to learn various advanced techniques of data analysis in R Software. R has top-notch tools for visualization, reporting, and interactivity, which are crucial both for Data Science and business domains.
	ST22302CR	Multivariate Analysis	The course has been designed so that students can understand the multivariate techniques used in health , forecasting and finance.
	ST22303CR	Survey Project	This course is developed so that the students will learn the organization and implementation of survey project.
	ST22309DCE	Data Analysis using SPSS	This Course has been designed to help the students to learn various advanced techniques of data analysis Using SPSS Software.
	ST22402CR	Industrial Statistics and Reliability Theory	On the completion of this course, students will be able to apply suitable SQC techniques & tools to control processes at various phases of work problems. The focus will be on the interpretation of control charts for acceptable of tolerant ranges in a process.
	ST22403CR	Design and Analysis of Experiments	The purpose of this course is to guide students to develop an understanding of the experimental skills required to perform a scientific investigation.
10C	List of Entrepreneurship Development Courses:		
	<i>Course Code</i>	<i>Course Title</i>	<i>Brief Justification</i>
	ST22102CR	Sampling Theory	This course is designed to develop skill to understand importance of sampling theory and various methods of sampling techniques that are used in planning.
	ST22402CR	Industrial Statistics and Reliability Theory	On the completion of this course, students will be able to apply suitable SQC techniques & tools to control processes at various phases of work problems. The focus will be on the interpretation of control charts for acceptable of tolerant ranges in a process.
	ST22203CR	Advanced Statistical Computing	This Course is developed to help the students to learn various advanced techniques of data analysis in R Software.
10D	List of Skill development Courses:		
	<i>Course Code</i>	<i>Course Title</i>	<i>Brief Justification</i>
	ST22103CR	Statistical Computing	This course is designed to help the students to learn data analysis in Minitab. Minitab provides a variety of tools for data visualisation and analysis. It is widely used in various industries and academic institutions for statistical analysis, quality improvement, and process optimization.
	ST22203CR	Advanced Statistical Computing	This Course is developed to help the students to learn various advanced techniques of data analysis in R Software. R has top-notch tools for visualization, reporting, and interactivity, which are crucial both for Data Science and business domains.

15A	Does the Department/Directorate/Institute/ Centre offer Online Courses of MOOCs, SWAYAM/e-PG Pathshala/ NPTEL and other recognized platforms? (Y/N)								N
15B	Details of Online Courses of MOOCs, SWAYAM/e-PG Pathshala/ NPTEL and other recognized platforms where the students of the institution have enrolled and successfully completed during the last five years (2019-2023)								
	Course Code	Name of the Course	Mode of the Course-offered by the HEI or Online (Specify the platform like MOOCs, SWAYAM, etc.)	Year of Offering/enrolment	Contact hours of course	Number of students enrolled in the year	Number of Students completing the course in the year	Departmental website link to the relevant document	Number of students enrolled in the year
16A	Does the programme have Field Projects/ Research Projects /Internship in the programme? (Y/N)								Y
16B	Details of components of Field Projects / Research Projects / Internships implemented during last five years (2019-2023)								
	Course Code	Name of the course pertaining to field projects/ Research Projects /Internship		Number of Credits		Number of students undertaking course		Departmental website link to the relevant document	
	ST17403CR	Survey Project		4		64		https://statistics.uok.edu.in/Files/3df6de46-e015-49ef-8ce5-b55d62405446/Menu/projects_5de908e4-7ba7-4c54-9485-4e6fcd39de10.pdf	
	ST18303CR	Survey Project		4		60		https://statistics.uok.edu.in/Files/3df6de46-e015-49ef-8ce5-b55d62405446/Menu/projects_5de908e4-7ba7-4c54-9485-4e6fcd39de10.pdf	
	ST18303CR	Survey Project		4		54		https://statistics.uok.edu.in/Files/3df6de46-e015-49ef-8ce5-b55d62405446/Menu/projects_5de908e4-7ba7-4c54-9485-4e6fcd39de10.pdf	
	ST18303CR	Survey Project		4		42		https://statistics.uok.edu.in/Files/3df6de46-e015-49ef-8ce5-b55d62405446/Menu/projects_5de908e4-7ba7-4c54-9485-4e6fcd39de10.pdf	
	ST18303CR	Survey Project		4		48		https://statistics.uok.edu.in/Files/3df6de46-e015-49ef-8ce5-b55d62405446/Menu/projects_5de908e4-7ba7-4c54-9485-4e6fcd39de10.pdf	
17	Any other Relevant Information:								

Signature of the Head/Director of the Department/Centre/Institute

- General Instructions:**
1. Kindly format the syllabus in light of the instruction and discussions held in past meetings and upload the syllabus on the Departmental Website.
 2. Upload valid proofs on the Departmental Website.