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VEER NARMAD SOUTH GUJARAT UNIVERSITY

University Campus, Udhna-Magdalla Road, SURAT - 395 007, Gujarat, India.

વીર નર્મદ દક્ષિણ ગુજરાત યુનિવર્સિટી

યુનિવર્સિટી કેમ્પસ, ઉદ્ધના-મગદલ્લા રોડ, સુરત - ૩૯૫ ૦૦૭, ગુજરાત, ભારત.

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No. Stat/ 4895/2021

Date: 29/11/2021

Minutes

The meeting of the Faculty members of Department of Statistics was held in the HOD office of the department on 29/11/2021 at 04.00 pm.

The agenda of this meeting was to analyze the following feedback reports on curriculum for the Academic year: 2020-21 and to decide the plan of action required.

1. Student Feedback Analysis on Curriculum
2. Faculty Feedback Analysis on Curriculum
3. Alumni Feedback Analysis on Curriculum
4. Employer Feedback Analysis on Graduates

The attendance of the members of the faculty of the department at said meeting was as follows:


Faculty	Present/Absent
Dr. Arti J. Rajyaguru (Professor & Head)	Present
Dr. Shital S. Patel (Assistant Professor)	Present
Dr. Jayshree Pandy (Assistant Professor -Adhoc)	Present

The said feedback reports were discussed and analyzed and consequently the following observations were made, decision were taken and an action plan was proposed as follows:


The overall feedback received from student, faculty, alumni and employer reflects high level of satisfaction. In view of the requirements of NEP 2020 and contemporary opportunities for employability, following changes in the curriculum emerged from the analyses and discussion:

- Modification of syllabus is required emphasizing on practical applications.
- To introduce practicals in paper 101- Real Analysis and 102- Probability Theory.
- To introduce Statistical based practical in M. Sc. (Statistics) paper-105 Computer Programming Language "C" and in M. Sc. (Applied Statistics) paper-MAS-205 Computer Programming Language "C".
- To install smart board in every class room, laboratory and research laboratory to facilitate teaching.

- To arrange book exhibition /eBook and demonstration of available different Statistical packages in the beginning of every new semester to let students know the availability of learning resources in the department.
- To modify all the syllabus regularly after 3 years to include latest statistical techniques/tools to increase the employability of the students.
- To increase the practical hours in all semesters to enhance the employability of the students.
- To increase the collaboration with surrounding industries to enhance the employability of students.
- To motivate students to participate in Social Activities.


Arti. Rajyaguru
Prof. & Head


Shital S. Patel
Assistant Professor


Jayshree Pandey
Assistant Professor (Adhoc)

Annexure 1: Student Feedback Analysis on Curriculum

1.1 M. Sc. (Statistics) Semester : I, II, III, IV (2020-21)

1.2 M. Sc. (Applied Statistics) Semester : I, II, III, IV (2020-21)

Annexure 2: Faculty Feedback Analysis on Curriculum

Annexure 3: Alumni Feedback Analysis on Curriculum

Annexure 4: Employer Feedback Analysis on Graduates



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Annexure 1: Student Feedback Analysis on Curriculum
Feedback Received from Students
Academic Year 2020-21

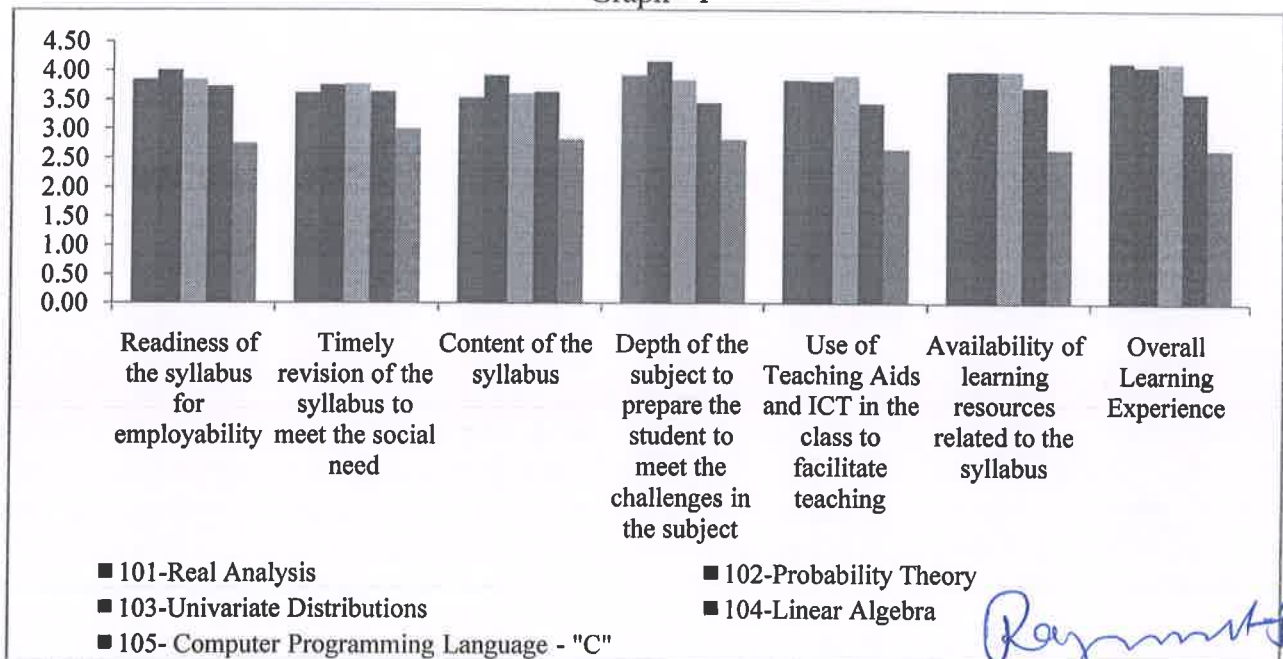
A Google forms was created to get feedback from students about the curriculum. The average score per items is provided in the table and graph given below.

1.1.1 M.Sc. (Statistics) Semester –I

Table 1: Average Score per question and graph (Score out of 5)

Course Name	Readiness of the syllabus for employability	Timely revision of the syllabus to meet the social need	Content of the syllabus	Depth of the subject to prepare the student to meet the challenges in the subject	Use of Teaching Aids and ICT in the class to facilitate teaching	Availability of learning resources related to the syllabus	Overall Learning Experience
101-Real Analysis	3.85	3.62	3.54	3.92	3.85	4.00	4.15
102-Probability Theory	4.00	3.75	3.92	4.17	3.83	4.00	4.08
103-Univariate Distributions	3.85	3.77	3.62	3.85	3.92	4.00	4.15
104-Linear Algebra	3.73	3.64	3.64	3.45	3.45	3.73	3.64
105- Computer Programming Language - "C"	2.75	3.00	2.83	2.83	2.67	2.67	2.67

Graph - 1

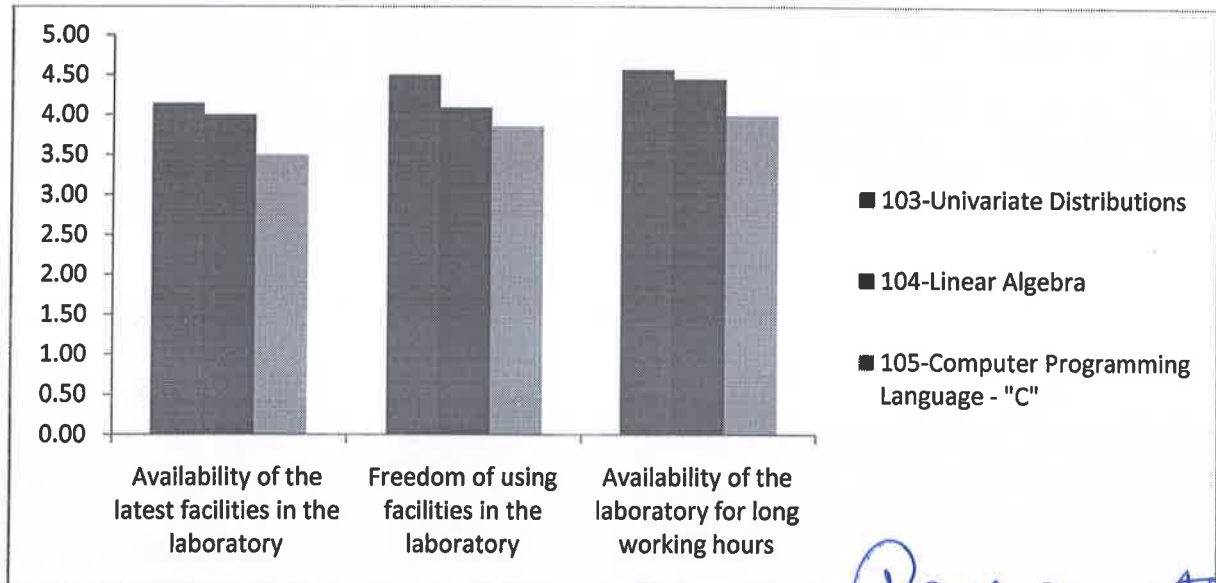


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Table 2: Average score per question and graph for Practical Paper (Score out of 5)

Subjects	Availability of the latest facilities in the laboratory	Freedom of using facilities in the laboratory	Availability of the laboratory for long working hours
103-Univariate Distributions	4.14	4.50	4.57
104-Linear Algebra	4.00	4.09	4.45
105-Computer Programming Language - "C"	3.50	3.86	4.00

Graph - 2



Rayan A. J.

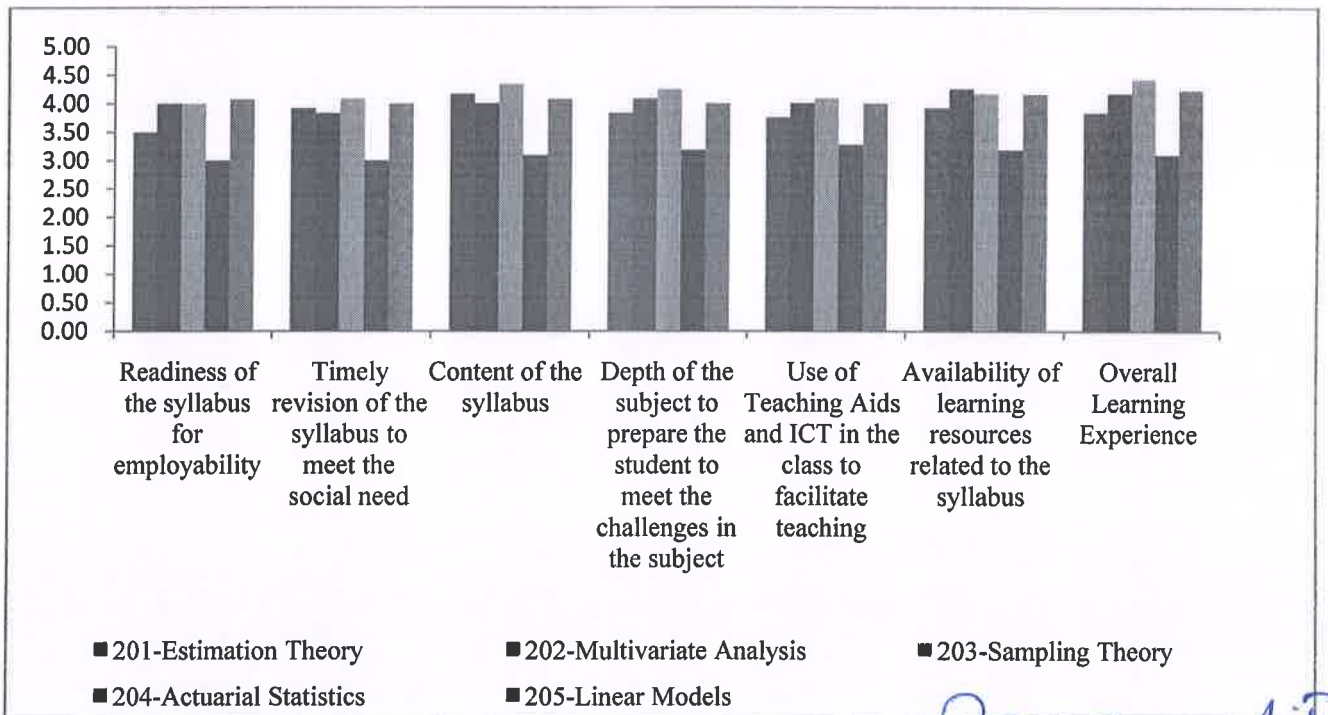
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1.1.2 M.Sc. (Statistics) Semester –II

Table 3: Average Score per question and graph (Score out of 5)

Course Name	Readiness of the syllabus for employability	Timely revision of the syllabus to meet the social need	Content of the syllabus	Depth of the subject to prepare the student to meet the challenges in the subject	Use of Teaching Aids and ICT in the class to facilitate teaching	Availability of learning resources related to the syllabus	Overall Learning Experience
201-Estimation Theory	3.50	3.92	4.17	3.83	3.75	3.92	3.83
202-Multivariate Analysis	4.00	3.83	4.00	4.08	4.00	4.25	4.17
203-Sampling Theory	4.00	4.08	4.33	4.25	4.08	4.17	4.42
204-Actuarial Statistics	3.00	3.00	3.09	3.18	3.27	3.18	3.09
205-Linear Models	4.08	4.00	4.08	4.00	4.00	4.15	4.23

Graph - 3




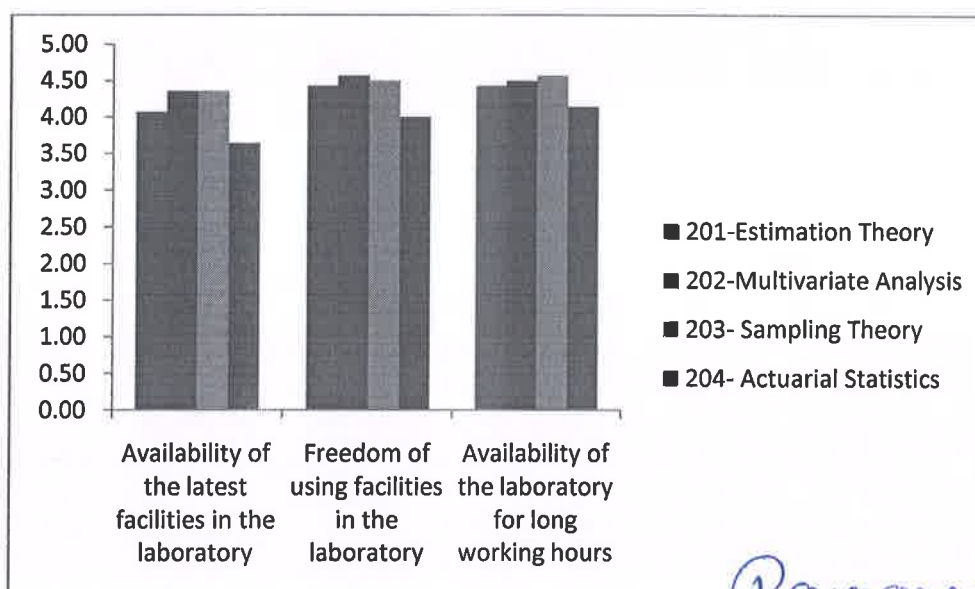

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Table 4: Average score per question and graph for Practical Paper (Score out of 5)

Subjects	Availability of the latest facilities in the laboratory	Freedom of using facilities in the laboratory	Availability of the laboratory for long working hours
201-Estimation Theory	4.07	4.43	4.43
202-Multivariate Analysis	4.36	4.57	4.50
203- Sampling Theory	4.36	4.50	4.57
204- Actuarial Statistics	3.64	4.00	4.14

Graph - 4



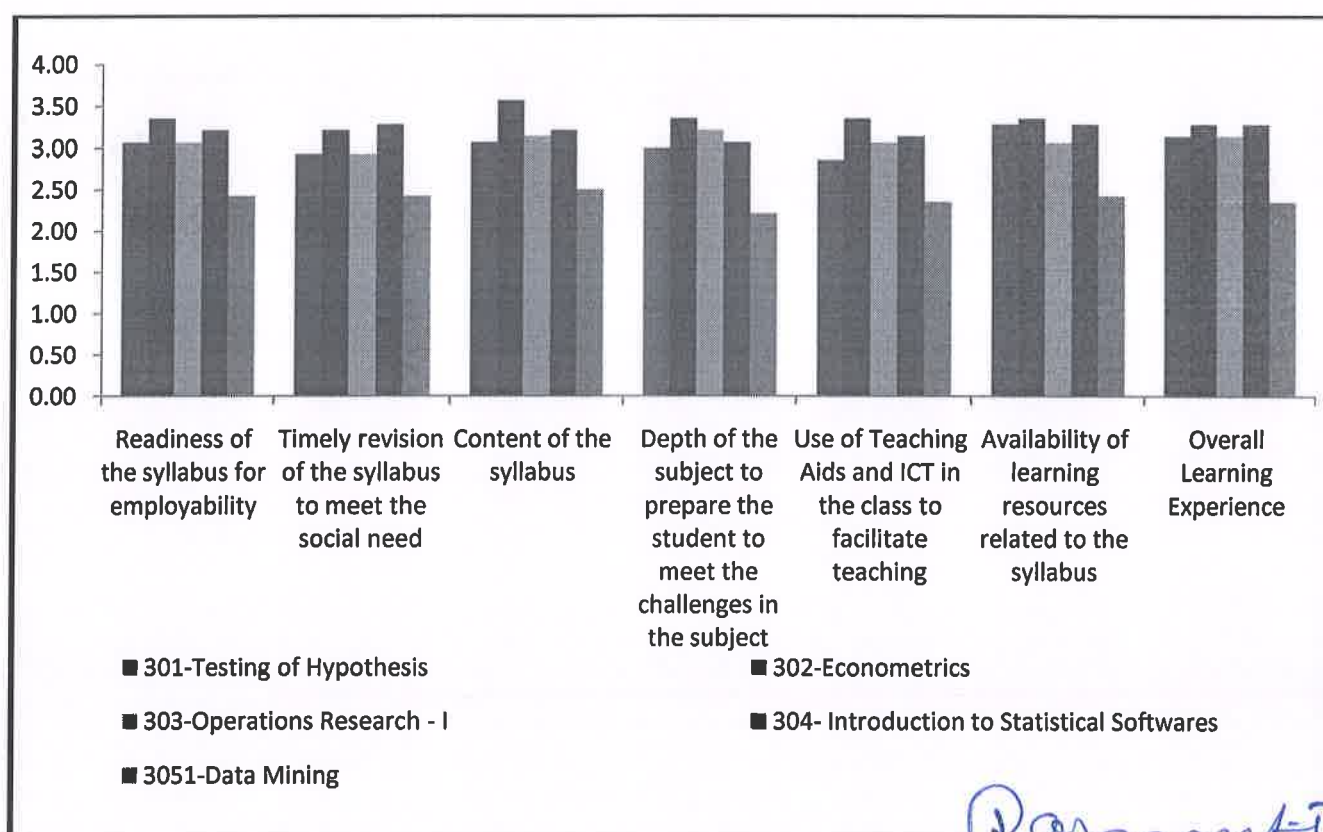
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1.1.3 M.Sc. (Statistics) Semester –III

Table 5: Average Score per question and graph (Score out of 5)

Course Name	Readiness of the syllabus for employability	Timely revision of the syllabus to meet the social need	Content of the syllabus	Depth of the subject to prepare the student to meet the challenges in the subject	Use of Teaching Aids and ICT in the class to facilitate teaching	Availability of learning resources related to the syllabus	Overall Learning Experience
301-Testing of Hypothesis	3.07	2.93	3.07	3.00	2.86	3.29	3.14
302-Econometrics	3.36	3.21	3.57	3.36	3.36	3.36	3.29
303-Operations Research - I	3.07	2.93	3.14	3.21	3.07	3.07	3.14
304- Introduction to Statistical Softwares	3.21	3.29	3.21	3.07	3.14	3.29	3.29
3051-Data Mining	2.43	2.43	2.50	2.21	2.36	2.43	2.36

Graph - 5



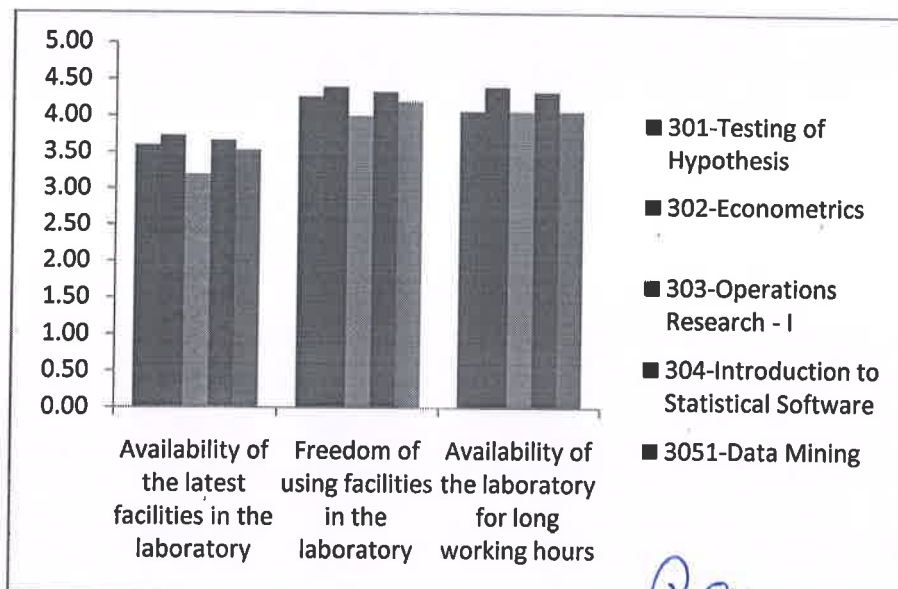
Raymond J

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Table 6 : Average score per question and graph for Practical Paper (Score out of 5)

Subjects	Availability of the latest facilities in the laboratory	Freedom of using facilities in the laboratory	Availability of the laboratory for long working hours
301-Testing of Hypothesis	3.60	4.27	4.07
302-Econometrics	3.73	4.40	4.40
303-Operations Research - I	3.20	4.00	4.07
304-Introduction to Statistical Software	3.67	4.33	4.33
3051-Data Mining	3.53	4.20	4.07

Graph - 6



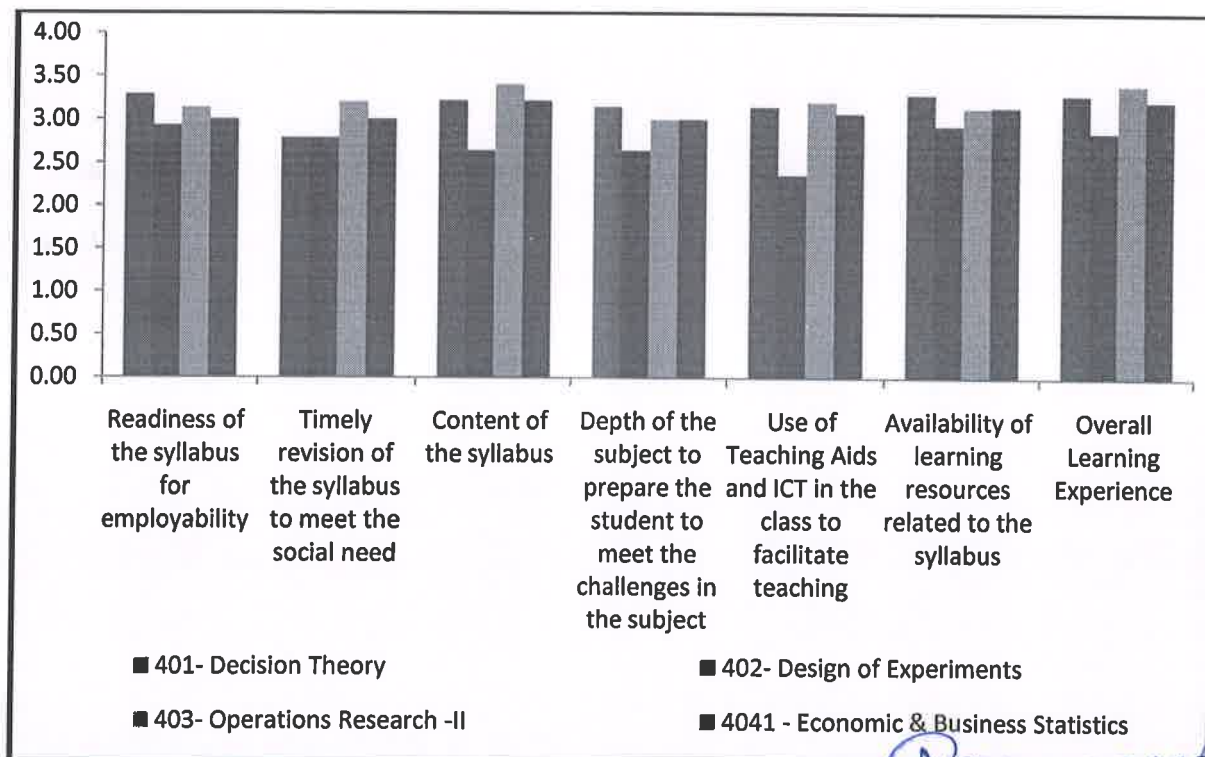
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1.1.4 M.Sc. (Statistics) Semester –IV

Table 7 : Average Score per question and graph (Score out of 5)

Course Name	Readiness of the syllabus for employability	Timely revision of the syllabus to meet the social need	Content of the syllabus	Depth of the subject to prepare the student to meet the challenges in the subject	Use of Teaching Aids and ICT in the class to facilitate teaching	Availability of learning resources related to the syllabus	Overall Learning Experience
401- Decision Theory	3.29	2.79	3.21	3.14	3.14	3.29	3.29
402- Design of Experiments	2.93	2.79	2.64	2.64	2.36	2.93	2.86
403- Operations Research -II	3.13	3.20	3.40	3.00	3.20	3.13	3.40
4041 - Economic & Business Statistics	3.00	3.00	3.21	3.00	3.07	3.14	3.21

Graph - 7

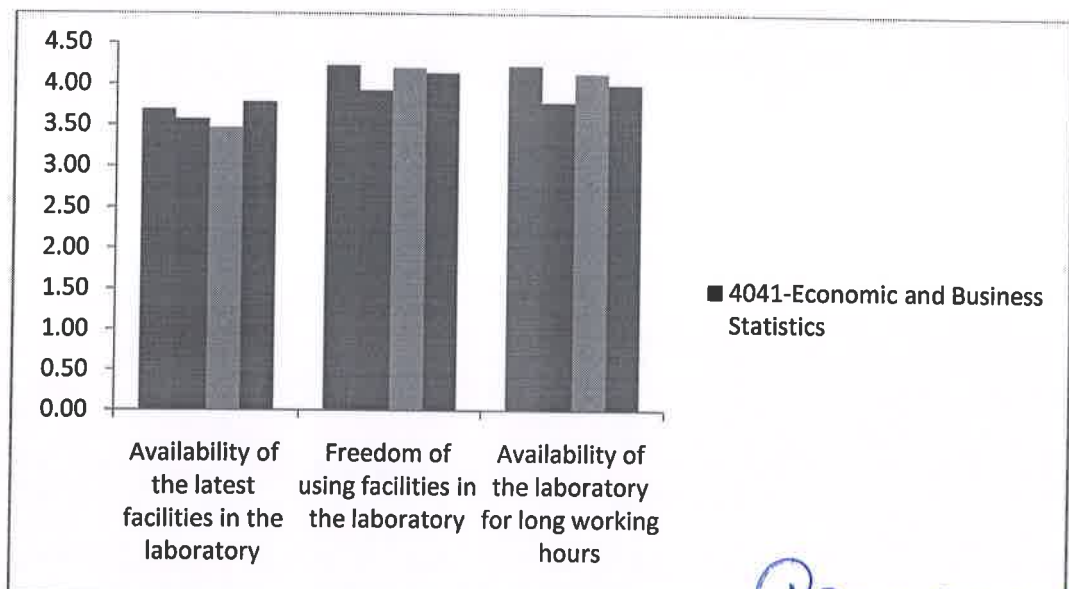



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Table 8: Average score per question and graph for Practical Paper (Score out of 5)

Subjects	Availability of the latest facilities in the laboratory	Freedom of using facilities in the laboratory	Availability of the laboratory for long working hours
401-Decision Theory	3.69	4.23	4.23
402-Design of Experiments	3.57	3.93	3.79
403-Operations Research II	3.47	4.20	4.13
4041-Economic and Business Statistics	3.79	4.14	4.00

Graph - 8



Rajiv A. J.

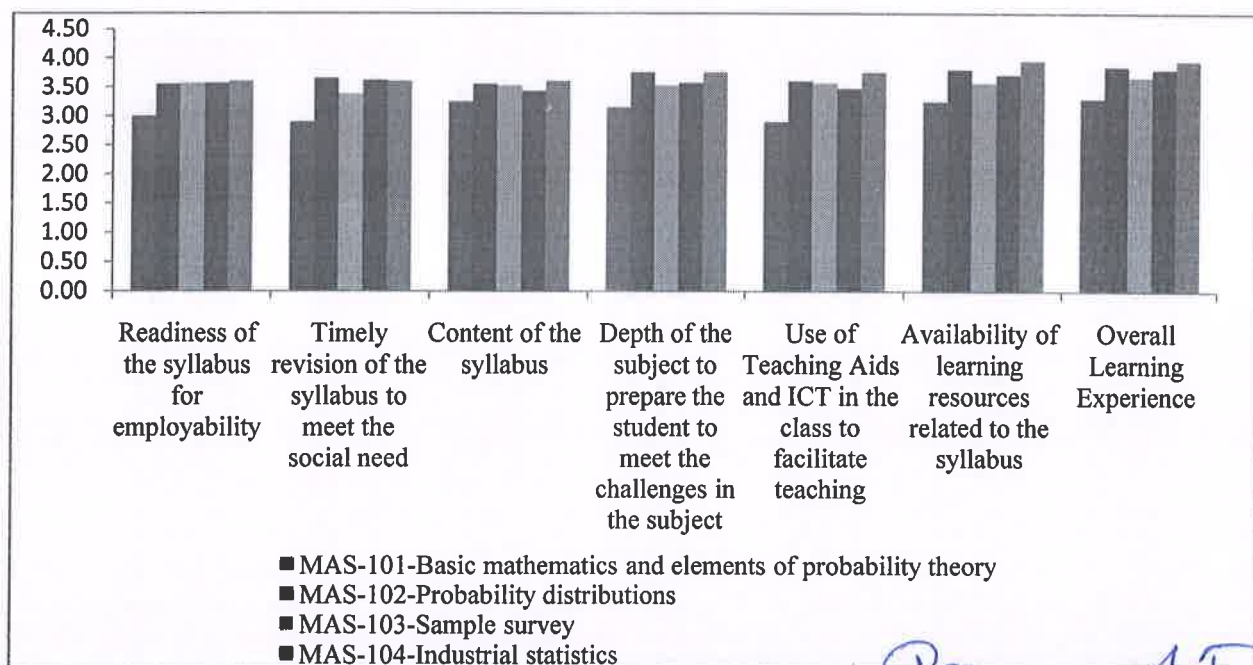
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1.2.1 M.Sc. (Applied Statistics) Semester –I

Table 9: Average Score per question and graph (Score out of 5)

Course Name	Readiness of the syllabus for employability	Timely revision of the syllabus to meet the social need	Content of the syllabus	Depth of the subject to prepare the student to meet the challenges in the subject	Use of Teaching Aids and ICT in the class to facilitate teaching	Availability of learning resources related to the syllabus	Overall Learning Experience
MAS-101-Basic mathematics and elements of probability theory	3.00	2.90	3.25	3.15	2.90	3.25	3.30
MAS-102-Probability distributions	3.55	3.65	3.55	3.75	3.60	3.80	3.85
MAS-103-Sample survey	3.57	3.38	3.52	3.52	3.57	3.57	3.67
MAS-104-Industrial statistics	3.57	3.62	3.43	3.57	3.48	3.71	3.81
MAS-105-Introduction to ms-office & internet	3.60	3.60	3.60	3.75	3.75	3.95	3.95

Graph - 9



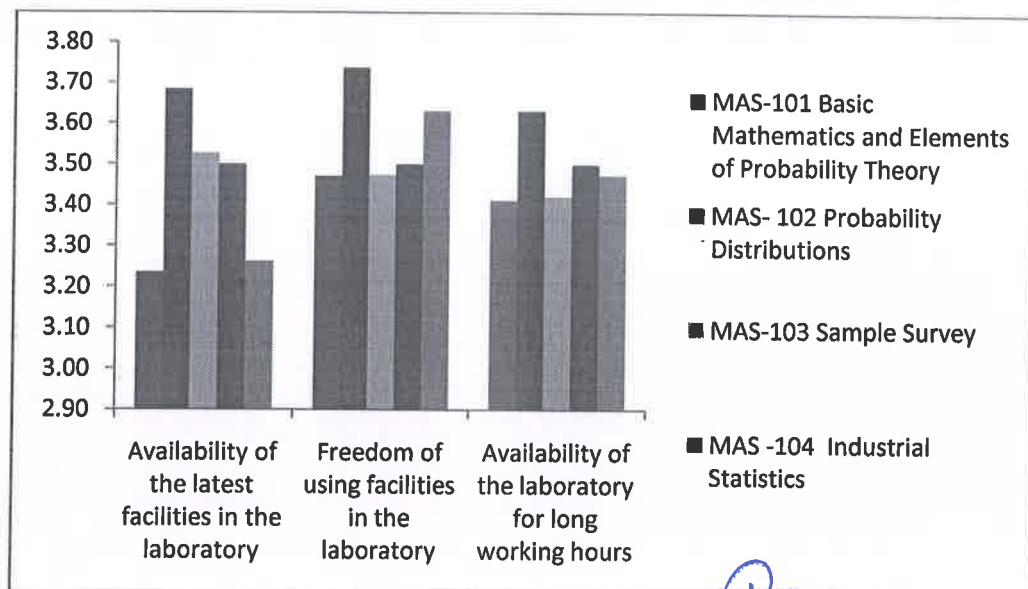
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Table 10 : Average score per question and graph for Practical Paper (Score out of 5)

Subjects	Availability of the latest facilities in the laboratory	Freedom of using facilities in the laboratory	Availability of the laboratory for long working hours
MAS-101 Basic Mathematics and Elements of Probability Theory	3.24	3.47	3.41
MAS- 102 Probability Distributions	3.68	3.74	3.63
MAS-103 Sample Survey	3.53	3.47	3.42
MAS -104 Industrial Statistics	3.5	3.5	3.5
MAS -104 Industrial Statistics	3.26	3.63	3.47

Graph - 10



Raymunt J

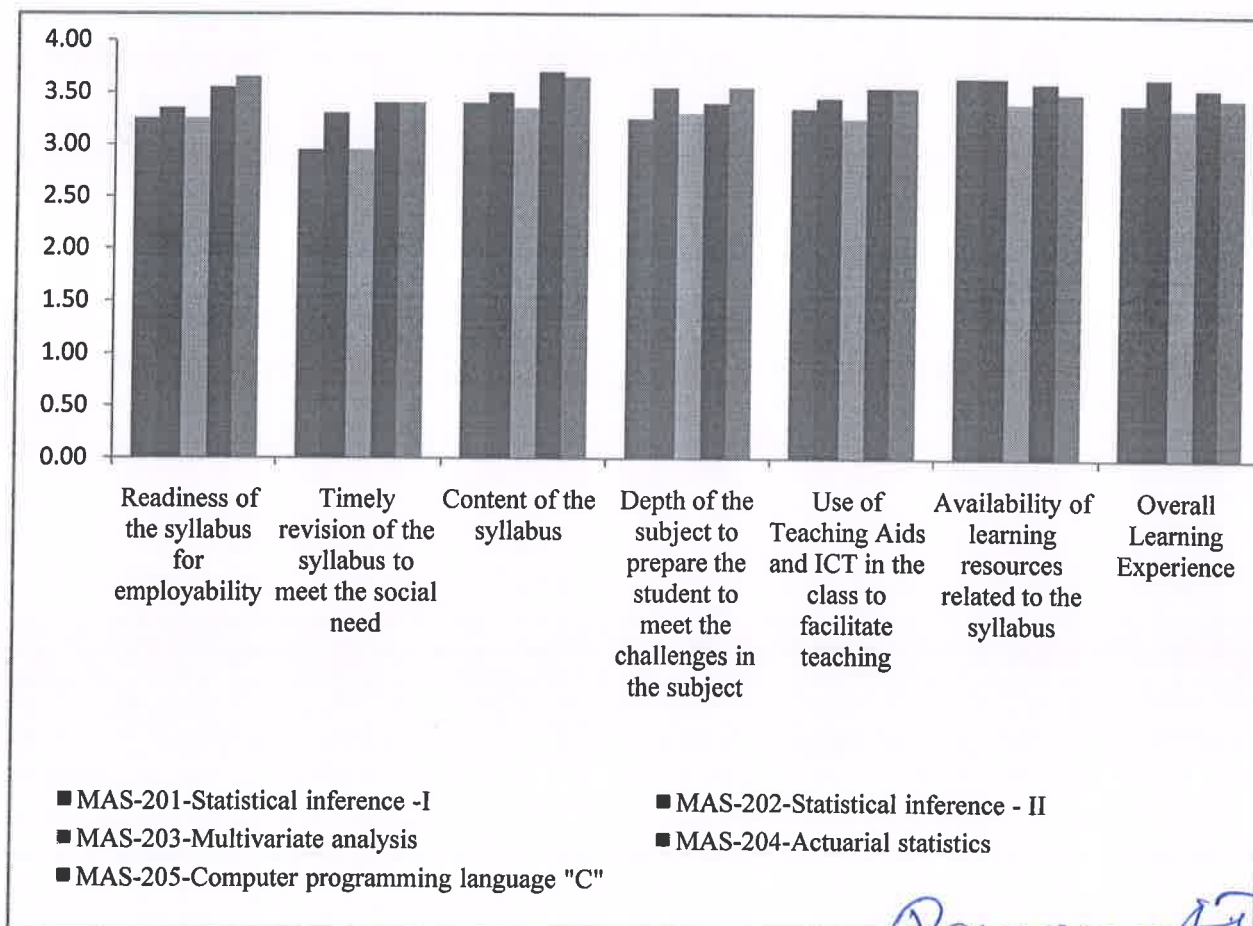
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1.2.2 M.Sc. (Applied Statistics) Semester –II

Table 11: Average Score per question and graph (Score out of 5)

Course Name	Readiness of the syllabus for employability	Timely revision of the syllabus to meet the social need	Content of the syllabus	Depth of the subject to prepare the student to meet the challenges in the subject	Use of Teaching Aids and ICT in the class to facilitate teaching	Availability of learning resources related to the syllabus	Overall Learning Experience
MAS-201-Statistical inference - I	3.25	2.95	3.40	3.25	3.35	3.65	3.40
MAS-202-Statistical inference - II	3.35	3.30	3.50	3.55	3.45	3.65	3.65
MAS-203-Multivariate analysis	3.25	2.95	3.35	3.30	3.25	3.40	3.35
MAS-204-Actuarial statistics	3.55	3.40	3.70	3.40	3.55	3.60	3.55
MAS-205-Computer programming language "C"	3.65	3.40	3.65	3.55	3.55	3.50	3.45

Graph - 11



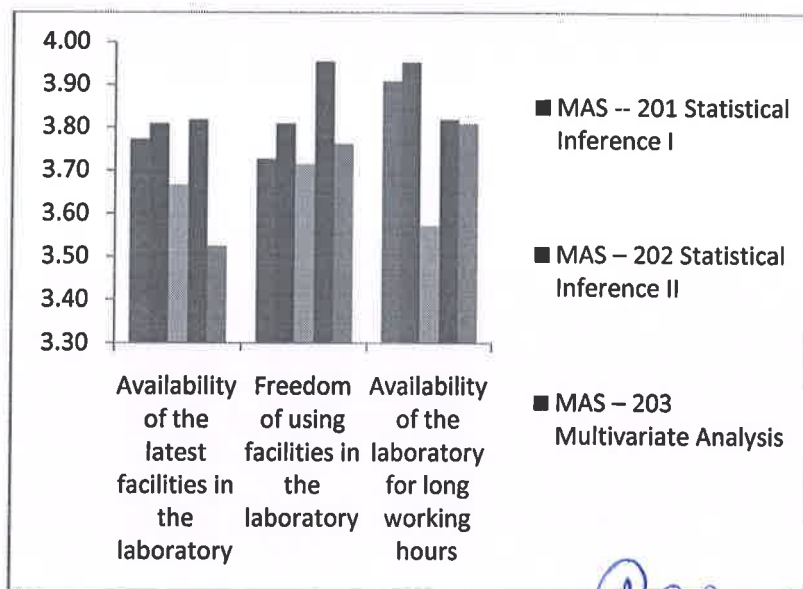
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Table 12: Average score per question and graph for Practical Paper (Score out of 5)

Subjects	Availability of the latest facilities in the laboratory	Freedom of using facilities in the laboratory	Availability of the laboratory for long working hours
MAS -- 201 Statistical Inference I	3.77	3.73	3.91
MAS – 202 Statistical Inference II	3.81	3.81	3.95
MAS – 203 Multivariate Analysis	3.67	3.71	3.57
MAS – 204 Actuarial Statistics	3.82	3.95	3.82
MAS – 205 Computer Programming Language – “C”	3.52	3.76	3.81

Graph - 12



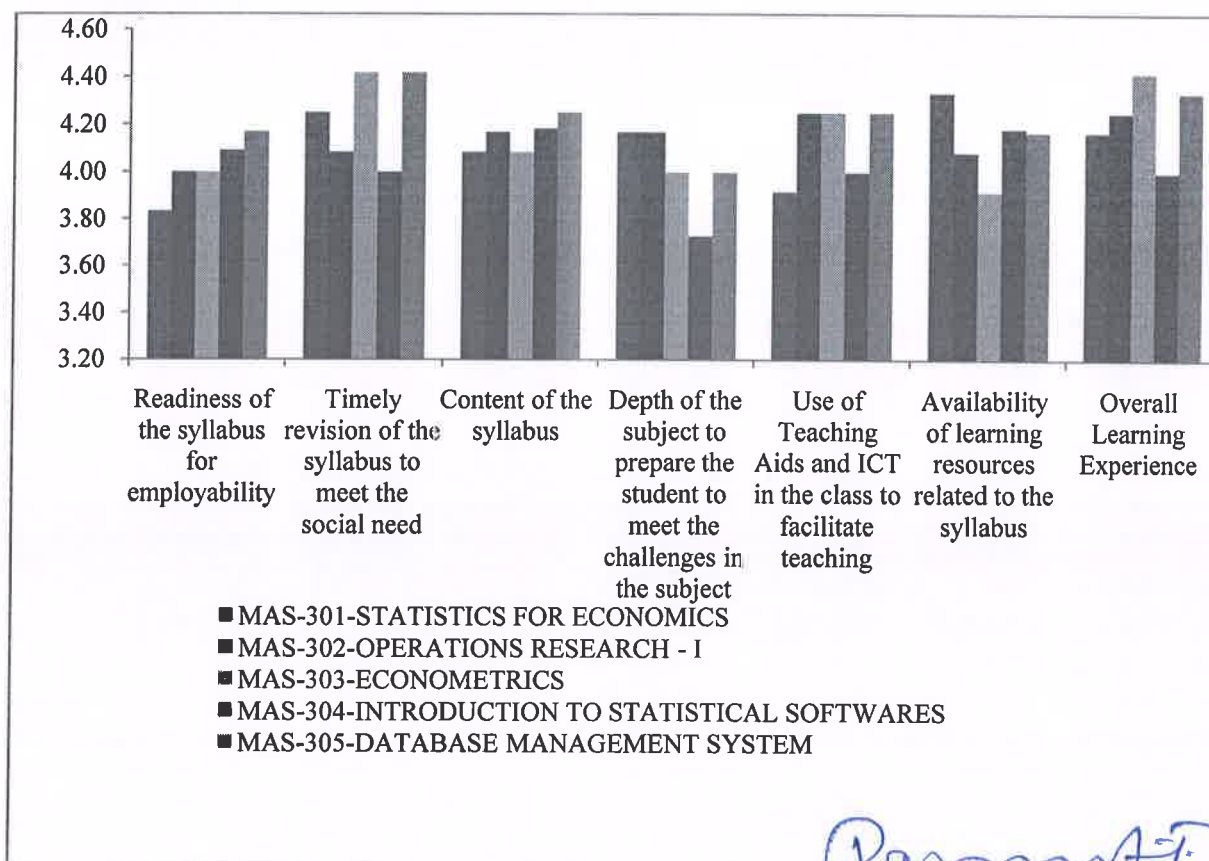
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1.2.3 M.Sc. (Applied Statistics) Semester –III

Table 13: Average Score per question and graph (Score out of 5)

Course Name	Readiness of the syllabus for employability	Timely revision of the syllabus to meet the social need	Content of the syllabus	Depth of the subject to prepare the student to meet the challenges in the subject	Use of Teaching Aids and ICT in the class to facilitate teaching	Availability of learning resources related to the syllabus	Overall Learning Experience
MAS-301-STATISTICS FOR ECONOMICS	3.83	4.25	4.08	4.17	3.92	4.33	4.17
MAS-302-OPERATIONS RESEARCH - I	4.00	4.08	4.17	4.17	4.25	4.08	4.25
MAS-303-ECONOMETRICS	4.00	4.42	4.08	4.00	4.25	3.92	4.42
MAS-304-INTRODUCTION TO STATISTICAL SOFTWARES	4.09	4.00	4.18	3.73	4.00	4.18	4.00
MAS-305-DATABASE MANAGEMENT SYSTEM	4.17	4.42	4.25	4.00	4.25	4.17	4.33

Graph - 13



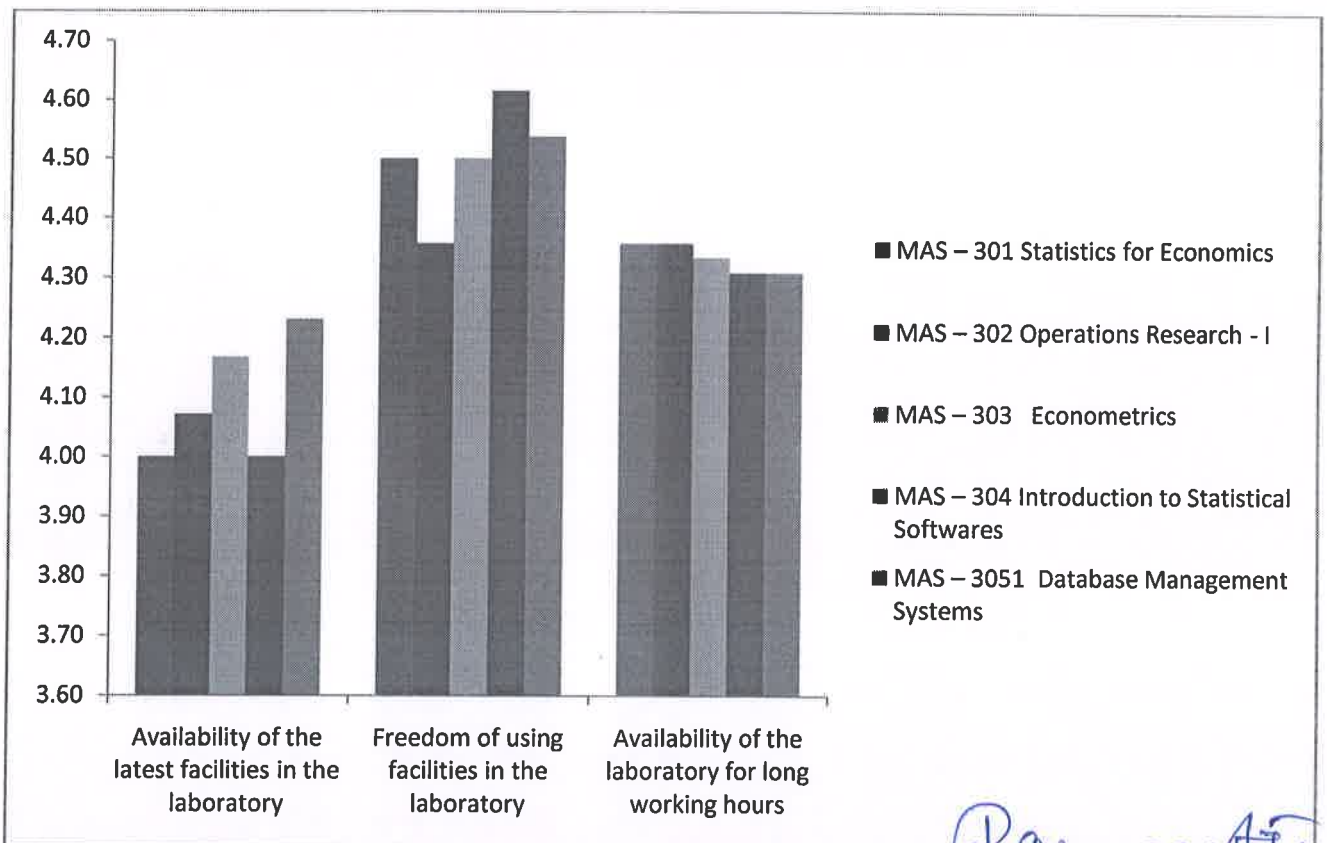
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Table 14: Average score per question and graph for Practical Paper (Score out of 5)

Subjects	Availability of the latest facilities in the laboratory	Freedom of using facilities in the laboratory	Availability of the laboratory for long working hours
MAS – 301 Statistics for Economics	4.00	4.50	4.36
MAS – 302 Operations Research - I	4.07	4.36	4.36
MAS – 303 Econometrics	4.17	4.50	4.33
MAS – 304 Introduction to Statistical Softwares	4.00	4.62	4.31
MAS – 3051 Database Management Systems	4.23	4.54	4.31

Graph - 14



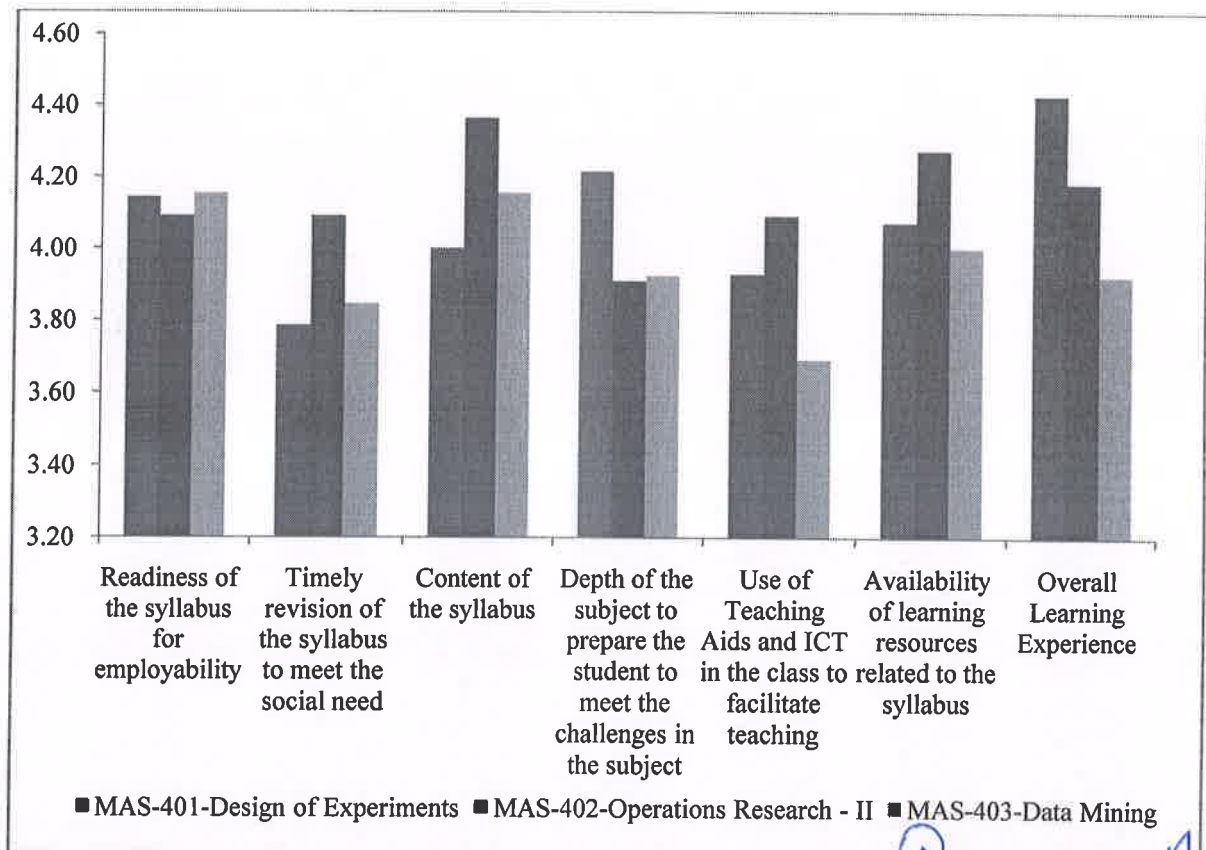
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1.2.4 M.Sc. (Applied Statistics) Semester –IV

Table 15: Average Score per question and graph (Score out of 5)

Course Name	Readiness of the syllabus for employability	Timely revision of the syllabus to meet the social need	Content of the syllabus	Depth of the subject to prepare the student to meet the challenges in the subject	Use of Teaching Aids and ICT in the class to facilitate teaching	Availability of learning resources related to the syllabus	Overall Learning Experience
MAS-401-Design of Experiments	4.14	3.79	4.00	4.21	3.93	4.07	4.43
MAS-402-Operations Research - II	4.09	4.09	4.36	3.91	4.09	4.27	4.18
MAS-403-Data Mining	4.15	3.85	4.15	3.92	3.69	4.00	3.92

Graph - 15



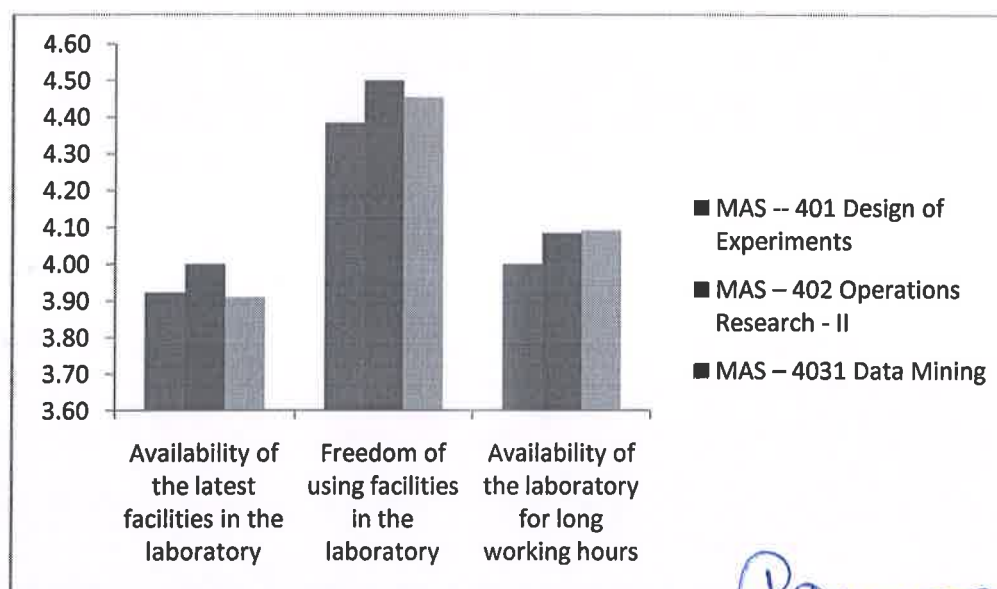
Raymuth

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Table 16: Average score per question and graph for Practical Paper (Score out of 5)

Subjects	Availability of the latest facilities in the laboratory	Freedom of using facilities in the laboratory	Availability of the laboratory for long working hours
MAS -- 401 Design of Experiments	3.92	4.38	4.00
MAS – 402 Operations Research - II	4.00	4.50	4.08
MAS – 4031 Data Mining	3.91	4.45	4.09

Graph - 16



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Annexure 2: Faculty Feedback Analysis on Curriculum
Feedback Received from Faculty
Academic Year 2020-21

A form was created to get feedback from alumni about the curriculum. The score per items is provided in the table.

Table 17: Score per question

Course Name	The syllabus is suitable to achieve the outcome, of course.	Syllabus of the course is contemporary and need-based.	The course content adds the value of the students.	The aims and objectives of the syllabi are well defined and clear to teachers and students.	Course content is followed by reference books.	The books prescribed/listed as reference materials are relevant, updated, and appropriate.	The course of my subject enriches my perception of the subject area.	The course content covers in-depth knowledge to impart to the students	Total contact is sufficient to complete within stipulated time assign to cover the entire syllabus.	The course has a right balance between theory and Lab. (FOR PRACTICAL ORIENTED COURSES ONLY)
101-Real Analysis	4	5	5	5	5	5	5	4	5	
102-Probability Theory	4	5	5	4	5	5	5	5	5	
103-Univariate Distribution	4	4	3	4	5	4	4	5	5	4
201-Estimation Theory	5	5	4	4	4	4	4	4	4	4
202-Multivariate analysis	5	5	5	5	5	5	5	4	4	5
203-Sampling Theory	4	5	5	5	5	5	5	4	3	3
204-Actuarial Statistics	5	4	5	4	4	4	4	4	4	4
301-Testing of Hypothesis	5	5	5	5	5	5	5	5	4	4
302-Econometrics	5	5	5	5	5	5	5	5	3	3
303-Operations Research-I	4	5	5	5	5	5	5	5	4	4
304-Introduction to statistical Software	4	4	4	4	4	4	4	4	5	5
401-Decision Theory	4	4	5	4	5	5	4	5	4	4
403-Operations Research-II	5	5	5	5	5	5	5	4	4	4
4041-Economic and Business Statistics	5	5	5	5	4	4	4	4	4	5
MAS-102-Probability Distribution	5	4	5	5	5	5	5	5	5	5
MAS-104-Industrial Statistics	5	4	5	4	4	4	4	4	4	4
MAS-104-Industrial Statistics	5	5	5	5	5	5	5	4	4	4
MAS-202-Statistical Inference - II	5	4	5	5	4	5	4	4	5	5
MAS-203-Multivariate Analysis	5	5	5	5	5	5	5	5	4	4

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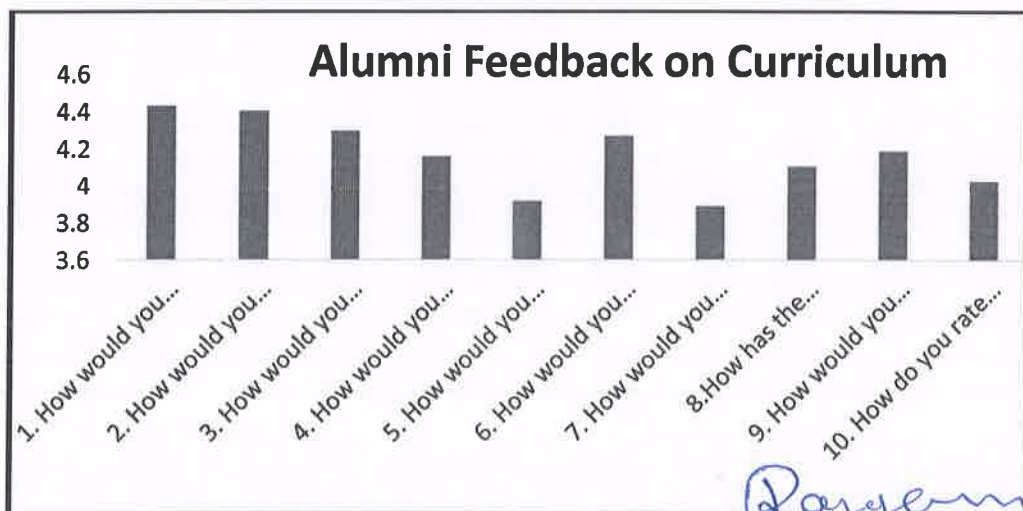
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Annexure 3: Alumni Feedback Analysis on Curriculum
Feedback Received from Alumni
Academic Year 2020-21

A Google forms was created to get feedback from alumni about the curriculum. The average score per items is provided in the table and graph given below.

Table 18: Average Score per question and graph (Score out of 5)

	1. How would you rate the curriculum prescribed for your degree during your study in the Department?	2. How would you rate the quality of education imparted in the department?	3. How would you rate the delivery of the content of the course?	4. How would you rate the course curriculum for fulfilling your expectations?	5. How would you rate the academic initiatives taken by the department to bridge the gap between job sectors & academia?	6. How would you rate the relevance of your degree to your present job?	7. How would you rate new skills learnt in the course of your study outside the curriculum?	8. How has the curriculum helped you to manage your interpersonal relations?	9. How would you rate the range of the courses included in the curriculum?	10. How do you rate development activities organized by the university department for your overall development?
Average out of 5	4.43	4.40	4.29	4.16	3.92	4.27	3.89	4.12	4.19	4.03

Graph - 17



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Annexure 4: Employers Feedback Analysis Graduates
Feedback Received from Employer
Academic Year 2020-21

A Google forms was created to get feedback from Employer about the curriculum. The average score per items is provided in the table and graph given below.

Table 19: Average Score per question and graph (Score out of 5)

Employers' Name	Ability to contribute to the task assigned to the students	Technical knowledge/skill ability to manage to the task assigned to the students	The student is ready to meet the needs of the industry/organization	Relationship with seniors/peers/subordinates	Dedication towards work	Ability to provide leadership	Ability to work in a team (Team work)	Involvement in social activities	The overall impression of their performance
Average Score	4.2	3.9	3.6	4.1	4.4	3.4	4.4	3.6	4.2

Graph - 18



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