A meeting of teachers of this course was held with a view to achieve the following aims:

- To finalise the topic wise reading list according to the revisions held in CBCS course structure to be effective from the academic session 2019-20.
- To discuss the pattern of the semester end exam
- To figure out how changes could be brought about in the listed topics to complete the course in time as well as a give a good intuition of the concepts to the students.

The issues that were further discussed are as follows:

1. End semester exam would be of 75 marks with no specific section wise weightage and a particular question may cut across two or more topics.
2. It was also decided that in the final exam 7 questions should be asked out of which, a student should be asked to attempt 5 questions of 15 marks each. In case of an OBE (open book exam), pattern decided by university would be followed (which is 4 out of 6 questions at present).
3. The internal assessment would comprise of 10 marks Class test, 10 marks Class test/project using an econometrics software GRETl/EVIEWS/STATA/R/PYTHON/MS-EXCEL or any other suitable econometrics software. Attendance will carry 05 marks.
4. The project work can be kept optional this year and individual teachers can decide on undertaking it depending upon the constraints posed by the pandemic.
5. All the sub-topics under ‘Review of Statistics’ are important for understanding the concepts of econometrics. Other topics can also be discussed here as per the discretion of the instructor.
6. The teachers also suggested that the following instruction should appear in the final exam: ‘All intermediate calculations should be rounded off to 4 decimal places. The values provided in statistical tables should not be rounded off. All final calculations should be rounded off to two decimal places.’ This instruction would help to achieve uniformity for final answer across students.

A subcommittee was constituted to review the suggestions given during and after the meeting by the teachers. The committee consisted of the following teachers:

1. Deepika Goel, Aryabhatta College
2. Padma Suresh, Sri Venkateshwara College
3. Priyanka Bhatia, SRCC College
4. Shailu Singh, Hansraj College
5. Siddharth Rathore, Gargi College
6. Abdul Rahim Ansari, Hindu College

The details of the Syllabus, Topic-wise Reading list, recommended text books are attached.
SYLLABUS

I. Nature and scope of Econometrics

II. Simple Linear Regression Model: Two Variable Case
   i. Estimation of model by method of ordinary least squares
   ii. Properties of estimators
   iii. Goodness of fit
   iv. Testing of Hypotheses
   v. Scaling and units of measurement
   vi. Confidence intervals
   vii. Gauss Markov Theorem
   viii. Forecasting

III. Multiple Linear Regression Model
   i. Estimation of parameters
   ii. Properties of OLS estimators
   iii. Goodness of fit- $R^2$ and Adjusted $R^2$
   iv. Partial regression coefficients
   v. Testing Hypotheses: Individual and Joint
   vi. Functional Forms of Regression Models
   vii. Qualitative (dummy) independent variables

IV. Violations of Classical Assumptions: Consequences, Detection and Remedies
   i. Multicollinearity
   ii. Heteroscedasticity
   iii. Serial Correlation

V. Specification Analysis
   i. Omission of a relevant variable
   ii. Inclusion of irrelevant variable
   iii. Tests of specification
<table>
<thead>
<tr>
<th>TOPIC NO.</th>
<th>TOPIC</th>
<th>READINGS FROM CORE TEXTS</th>
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<tbody>
<tr>
<td>1.</td>
<td>Nature and scope of Econometrics</td>
<td>Gujarati: Ch 1</td>
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<tr>
<td>2.</td>
<td>Simple Linear Regression Model: Two Variable Case</td>
<td>Review of Statistics</td>
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<td>Devore: Ch 7: Sec 7.4, Ch 9.1, 9.2, 9.5</td>
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<td></td>
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<td>Gujarati: Appendix D, pages 507-510</td>
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<td>Two Variable Case:</td>
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<td>Gujarati: Ch 2, Ch 3</td>
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<td>Dougherty: Ch 2 (excluding “A Monte Carlo Experiment”, that is Sec 2.4)</td>
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<td>3.</td>
<td>Multiple Linear Regression Model</td>
<td>Gujarati: Ch 4, Ch 5, Ch 6 (excluding Sec 6.7)</td>
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<td>Dougherty: Ch 3 (excluding Sec 3.4), Ch 5</td>
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<td>4.</td>
<td>Violations of Classical Assumptions: Consequences, Detection and Remedies</td>
<td>Gujarati: Ch 8, Ch 9 (Excluding Sec 9.5), Ch 10 (Excluding Sec 10.6, Appendix 10A)</td>
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<td>Dougherty: Ch 3 (only sec 3.4 is to done),</td>
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<td>Ch 7: Goldfeld-Quandt test (p. 285-286 are to be done),</td>
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<td>Ch12 (pp 434-440 are to be done).</td>
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<td>5.</td>
<td>Specification Analysis</td>
<td>Gujarati: Ch 7</td>
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<td>Dougherty: Ch 6: Sec 6.1, 6.2, 6.3, 6.5</td>
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Readings: