



Estd. 1962  
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With CGPA 3.52

SHIVAJI UNIVERISTY, KOLHAPUR-416 004. MAHARASHTRA  
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शिवाजी विद्यापीठ, कोल्हापूर – 416004.

दुरध्वनी (ईपीएबीएक्स) २६०९००० (अभ्यास मंडळे विभाग— २६०९०९४)  
फॅक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३. e-mail: bos@unishivaji.ac.in

Ref../SU/BOS/Humanities/

Date : 08/06/2022

08 JUN 2022  
No 00220

To,

The Head/ Principal,  
All Affiliated Concerned University Department/Colleges  
Shivaji University, Kolhapur

**Subject : Regarding syllabi of B. Sc.-M.Sc. Economics Integrated (Five Years) B.Sc. First Year Semester I and II degree programme under the Faculty of Humanities**

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the University authorities have accepted and granted approval to the revised syllabi of **B. Sc.-M.Sc. Economics Integrated (Five Years) B.Sc. First Year Semester I and II** under the Faculty of Humanities

This syllabi shall be implemented from the academic year 2022-2023 onwards. A soft copy containing the syllabus is attached herewith and it is also available on university website [www.unishivaji.ac.in](http://www.unishivaji.ac.in) (Online Syllabus).

You are therefore, requested to bring this to the notice of all Students and Teachers concerned.

Thanking you,

Yours faithfully,

Dy. Registrar

Encl : As above

Copy to,

1. I/c Dean, Faculty of Humanities
2. Chairman, BOS under Faculty of Humanities
3. Director, BOEE
4. Appointment Section
5. P. G. Admission Section
6. All Exam. Sections
7. Affiliation Section (U.G./P.G.)
8. Computer Center/I.T.
9. Eligibility Section
10. P.G. Seminer Section

for information

for information and necessary action.

# SHIVAJI UNIVERSITY, KOLHAPUR



**A++**  
**Accredited By NAAC**

**Syllabus For**

**B.Sc.-M.Sc. Economics Integrated (Five Years)**

**Faculty of Humanities**

**(B.Sc. First Year Semester I and II)**

(Subject to the modifications to be made from time to time)

**Syllabus to be implemented from June 2022 Onwards.**

**A] Ordinance and Regulations: As applicable to B.Sc.-M.Sc.  
Economics Integrated (Five Years)**

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B]

**Shivaji University, Kolhapur**  
Syllabus For  
**B.Sc.-M.Sc. Economics Integrated (Five Years)**  
Semester with Credits and CIE System of Examination  
[ Faculty of Humanities]

**1. TITLE: B.Sc.-M.Sc. Economics Integrated (Five Years)**

**(Under the Faculty of Humanities)**

**2. YEAR OF IMPLEMENTATION:**

Syllabus will be implemented from June 2022 onwards.

**3. PREAMBLE:**

Keeping in view, the general employability of Graduates and Post Graduates and utterly unsatisfactory the success rate of students in both the Central Civil and Specialized Services Examinations of UPSC, the Department of Economics of Shivaji University has decided to introduce B. Sc.-MSc Economics Integrated (Five Years) course. The unique character of the captioned postgraduate course will be that the students opting for this course shall have the option of multiple exits and the two-point entry system. Accordingly, syllabus has been framed in view to understand recent trends in economics and interdisciplinary subjects along with theoretical and applied perspective as well as skill development with the introduction of semester and credit system.

**4. Programme Outcomes:**

1. As mentioned in the foregoing point (a) that the captioned Programme will be a successful model in creating the employment avenues in the changing Labour Market which has become a ruthless quality conscious.
2. The captioned Programme will equip the students with the necessary skills to make the diagnosis of contemporary economic problems and write a project proposal.
3. Students at the completion of the captioned Programme shall be able to apply statistically and mathematical tools to monitor and evaluate the policy outcomes.

4. As the students of the captioned Programme will have to study compulsory, the foreign languages it will be easy for them to seek the foreign employment and further higher studies.
5. Students of the captioned Programme will be able to apply their knowledge in the analysis of the socio-economic problems and suggest effective measures in solving the problems.
6. Students completing the captioned Post Graduate Programme will be strongly equipped with the Mathematical, Statistical, and Econometrics skills which in fact is the need of the contemporary world labour market covering the fields of academics, industry, services sectors and national and international administrative fields.

#### **5. DURATION:**

- The course shall be a full time course.
- The duration of course shall be of Five years /Ten Semesters.

**6. PATTERN:-**The pattern of examination will be Semester with Credit and Continuous Internal Evaluation [CIE].

#### **7. FEE STRUCTURE: -**

**i) Entrance Examination Fee: As per university rules**

**ii) Course Fee-As per the University rules/norms.**

<b>Particulars</b>	<b>Rupees</b>
<b>Tuition Fee</b>	<b>Rs.</b>
<b>Laboratory Fee</b>	<b>Rs.</b>
<b>Computer Fee</b>	<b>Rs.</b>
<b>Total</b>	

**Other fee will be applicable as per University rules/norms.**

#### **8. IMPLEMENTATION OF FEE STRUCTURE:**

In case of revision of fee structure, this revision will be implemented in phase wise manner and as per the University decision in this regard.

## **9. ELIGIBILITY FOR ADMISSION:**

The basic eligibility for the course is 10 + 2 with any discipline of Arts, Commerce, Science, and Diploma Engineering (10+3) from any recognized Board of Examination in India. The minimum percentage of marks [At 10+2 and 10+3 (the case of Diploma Engineering)] required for seeking admission will be 50 percent for the General and 45 percent for reserved category candidates. Basic knowledge of mathematics is required. The merit list will be prepared on the basis of the entrance examination score.

The Double Entry and Multiple exits options that are planned are as follows;

### **1. Double Entry Options:**

**a.** The first entry of the candidate will be for the first year of the course for which the eligibility will be that the candidate should have completed his/her 10+2 with any the discipline of Arts, Commerce, Science and Diploma Engineering from any recognized Board of Examination in India with knowledge of Mathematics at 12<sup>th</sup> or at Diploma Engineering level.

**b.** The Second entry point for the candidate shall be available at the Fourth Year (Seventh Semester) provided that the candidate has successfully completed Three Years (Six Semesters) of similar course from any recognized Indian University OR BA (Economics with Compulsory Paper on Quantitative Economics, Econometrics, Statistics, Mathematics) BSc (Mathematics), BSc (Statistics), BSc (Physics) and BE from any recognized Indian University and has scored a minimum of 55 percent in case of open and 45 percent of marks in the case of reservation category. The number of seats available at this level of entry will depend on the number of candidates volunteered the exit after completing their Three Years (Six Semesters) of captioned course.

### **2. Multiple Exit Options:**

The candidate will have the option of exit at THREE Stages...

**a.** The candidate shall have the First exit option available after the successful completion of Three Years (Six Semesters) of the Programme.

**b.** The Second exit option shall be available after the successful completion of Four Years (Eight Semesters in case of those who have entered the Programme after 10+2 and after One Year (Two Semesters) of successful completion of the Programme (Those who have entered the Programme after their completing of 10+2+3 from other recognized Indian Universities OR 10+2+4 in case of recognized Engineering Degree).

**c.** The Third exit option shall be available after the successful completion of Five Years (Ten Semesters in case of those who have entered the Programme after 10+2), and... after Two Years (Four Semesters) of the successful completion of the Programme (for those who have entered the Programme after their completing of 10+2+3 from other recognized Indian Universities OR 10+2+4 in case of recognized Engineering Degree).

### **3. Model for Confirmation of Bachelor Degree, PG Diploma (PGD), Advanced PG Diploma (APGD) and MSc (Economics) Integrated at Different Exit Option Points:**

The model pertaining to the aforementioned point number 3 is explained as following...

**a.** Candidates who will volunteer to exit at the end of the Third year (with completion of Six Semesters) will be conferred upon the Bachelor Degree and the nomenclature of the same will be as B.Sc. (Economics). The candidate for this degree shall have to complete 144 Academic Credit with Research Project (with Four Credits).

**b.** Candidates who will volunteer to exit at the end of the Fourth year (with completion of Eight Semesters) will be conferred upon the Bachelor Degree and the nomenclature of the same will be as B.Sc. Honors (Economics). The candidate for this degree shall have to complete 184 Academic Credits.

**c.** For the candidates those who have entered the Programme after their completing of 10+2+3 from other recognized Indian Universities OR 10+2+4 in case of recognized Engineering Degree and volunteer to exit at the end of the Fourth Year of the original Programme (in case of these entrants at the end of the First-year and Second Semesters) will be confirmed upon the Post Graduate Diploma (PGD) in Economics. In the case of these Lateral Entrants, the candidate for the certificate of Post Graduate Diploma (PGD) in Economics shall have to complete 40 Academic Credits.

**d.** For the candidates who have entered the Programme after their completing of 10+2+3 from other recognized Indian Universities OR 10+2+4 in case of recognized Engineering Degree and will naturally exit at the end of the Fifth Year of the original Programme (in case of these Lateral entrants at the end of the Second year and Fourth Semester) will be confirmed upon the Post Graduate Diploma (PGD) in Economics. In the case of these Lateral Entrants, the candidate for a certificate of Advanced Post Graduate Diploma (APGD) in Economics shall have to complete 80 Academic Credits with a Dissertation.

**e.** The candidates those who have entered the Programme with their 10+2 Arts, Commerce and Science with knowledge of Mathematics at 12<sup>th</sup> OR 10+3 in case of Diploma Engineering and have successfully completed the entire stretch of Five Years of the Programme (Ten Semesters) with their Dissertation at Third and Fifth Year (Sixth and Tenth Semester) will be conferred upon the Post Graduate Degree and the nomenclature of the same will be the MSc (Economics) Integrated. In this case, the candidate shall have to complete the entire course with 144 academic credits.

**f.** But to keep intact the originality of the Programme and avoidance of dilution of academic rigor in case of the candidates those who will enter the Programme at the fourth-year which (after completing their 10+2+3 in Arts, Commerce and Science OR 10+2+4 in case of Engineering Degree) from any other recognized Indian University will not be conferred upon the Post Graduate Degree like Original Entrants of which the nomenclature will be the MSc (Economics) Integrated. Such lateral entrants shall be confirmed upon Post Graduate Diploma (PGD) in case of their exit with One Year (Two Semesters) and Advanced Post Graduate Diploma (APGD) in case of their exit with the completion of two years (Four Semesters) respectively.

### **10. MEDIUM OF INSTRUCTION:**

The medium of instruction shall be English.

## 11. STRUCTURE OF PROGRAMME:

Structure of Programme B.Sc.-M.Sc. Economics Integrated (Five Years) is given below:

Syllabus for B.Sc.-M.Sc. Economics Integrated (Five Years)

Department of Economics, Shivaji University, Kolhapur

[Under the Academic Flexibility]

- (1) B.Sc.-I (Semester-I & II) to be introduced w. e. f. June 2022
- (2) B. Sc.-II (Semester-III & IV)
- (3) B. Sc.-III (Semester-V & VI)
- (4) M. Sc.-I (Semester-VII & VIII)
- (5) M. Sc.-II (Semester-IX & X)

B.Sc.-I (Semester-I & II)							
Semester-I				Semester-II			
Paper No.	Paper Title	Credits	Marks	Paper No.	Paper Title	Credits	Marks
1	Micro Economics-I	4	100	1	Micro Economics-II	4	100
2	Mathematics for Economics	4	100	2	Macro Economics-I	4	100
3	Indian Economy-I	4	100	3	Econometrics-I	4	100
4	Economic Thoughts	4	100	4	Financial Methods	4	100
5	Statistics-I	4	100	5	*Computer Application in Economics-I	4	100
6	English for Economics: Elementary	4	100	6	German Language	4	100
B.Sc.-II (Semester-III & IV)							
Semester-III				Semester-IV			
Paper No.	Paper Title	Credits	Marks	Paper No.	Paper Title	Credits	Marks
1	Macro Economics-II	4	100	1	International Economics	4	100
2	Econometrics-II	4	100	2	Rural and Agricultural Economics	4	100
3	Development Economics-I	4	100	3	Public Policy	4	100
4	Public Finance	4	100	4	Mathematical Economics	4	100
5	*Computer Application in Economics-II	4	100	5	Environmental Economics	4	100
6	English for Economics: Intermediate	4	100	6	French Language	4	100

<b>B.Sc.-III (Semester-V &amp; VI)</b>							
<b>Semester-V</b>				<b>Semester-VI</b>			
<b>Paper No.</b>	<b>Paper Title</b>	<b>Credits</b>	<b>Marks</b>	<b>Paper No.</b>	<b>Paper Title</b>	<b>Credits</b>	<b>Marks</b>
1	Indian Economy-II	4	100	1	Nobel Laureates in Economics	4	100
2	Financial Economics	4	100	2	Research Methodology	4	100
3	Industrial Economics	4	100	3	Managerial Economics	4	100
4	Development Economics-II	4	100	4	Costs and Accounts	4	100
5	*Computer Application in Economics-III	4	100	5	Project Report	4	100
6	English for Economics: Advanced	4	100	6	German and French Language	4	100

<b>M.Sc.-I (Semester-VII &amp; VIII)</b>							
<b>Semester-VII</b>				<b>Semester-VIII</b>			
<b>Paper No.</b>	<b>Paper Title</b>	<b>Credits</b>	<b>Marks</b>	<b>Paper No.</b>	<b>Paper Title</b>	<b>Credits</b>	<b>Marks</b>
1	Micro Economic Analysis	4	100	1	Macro Economic Analysis	4	100
2	Theory of International Economics	4	100	2	International Economics: Trade and Finance	4	100
3	Advanced Econometrics	4	100	3	Resource Economics	4	100
4	Demography and Gender Studies	4	100	4	Statistics and Operation Research	4	100
<b>Electives (Any One)</b>				<b>Electives (Any One)</b>			
1	Economics of Social Sector	4	100	1	Labour Economics	4	100
2	Welfare Economics	4	100	2	Economics of Agriculture	4	100

<b>M.Sc.-II (Semester-IX &amp; X)</b>							
<b>Semester-IX</b>				<b>Semester-X</b>			
<b>Paper No.</b>	<b>Paper Title</b>	<b>Credits</b>	<b>Marks</b>	<b>Paper No.</b>	<b>Paper Title</b>	<b>Credits</b>	<b>Marks</b>
1	Monetary Theory and Institutions	4	100	1	Economics of Growth and Development	4	100
2	Advanced Financial Economics	4	100	2	Business Analytics	4	100
3	Public Economics	4	100	3	*Computer Programming in Economics	4	100
4	Time Series Econometrics	4	100	4	Dissertation	4	100
<b>Electives (Any One)</b>				<b>Electives (Any One)</b>			
1	Industrial Economics	4	100	1	Urban Economics	4	100
2	Behavioral Economics	4	100	2	Law and Economics	4	100

**B.Sc.-M.Sc. Economics Integrated (Five Years) Syllabus**  
**Semester System with Credits and Continuous Internal Evaluation [CIE]**  
**To be introduced w.e.f. June 2022 for B. Sc. First Year (Semester-I & II) in the**  
**Department of Economics, Shivaji University, Kolhapur-4,**  
**[Under Academic Flexibility]**

<b>B. Sc. First Year (Semester-I)</b>			
<b>Paper Number</b>	<b>Paper Title</b>	<b>Credits</b>	<b>Marks</b>
BEC-1	Micro Economics-I	<b>04</b>	<b>100</b>
BEC-2	Mathematics for Economics	<b>04</b>	<b>100</b>
BEC-3	Indian Economy-I	<b>04</b>	<b>100</b>
BEC-4	Economic Thoughts	<b>04</b>	<b>100</b>
BEC-5	Statistics-I	<b>04</b>	<b>100</b>
BEC-6	English for Economics: Elementary	<b>04</b>	<b>100</b>
<b>B. Sc. First Year (Semester-II)</b>			
BEC-7	Micro Economics-II	<b>04</b>	<b>100</b>
BEC-8	Macro Economics-I	<b>04</b>	<b>100</b>
BEC-9	Econometrics-I	<b>04</b>	<b>100</b>
BEC-10	Financial Methods	<b>04</b>	<b>100</b>
BEC-11	*Computer Application in Economics-I	<b>04</b>	<b>100</b>
BEC-12	German Language	<b>04</b>	<b>100</b>

**B.Sc.-M.Sc. Economics Integrated (Five Years) Syllabus**  
**Semester System with Credits and Continuous Internal Evaluation [CIE]**  
**B. Sc. Second Year (Semester-III & IV) in the Department of Economics, Shivaji**  
**University, Kolhapur-4,**  
**[Under Academic Flexibility]**

<b>B. Sc. Second Year (Semester-III)</b>			
<b>Paper Number</b>	<b>Paper Title</b>	<b>Credits</b>	<b>Marks</b>
BEC-13	Macro Economics-II	<b>04</b>	<b>100</b>
BEC-14	Econometrics-II	<b>04</b>	<b>100</b>
BEC-15	Development Economics-I	<b>04</b>	<b>100</b>
BEC-16	Public Finance	<b>04</b>	<b>100</b>
BEC-17	*Computer Application in Economics-II	<b>04</b>	<b>100</b>
BEC-18	English for Economics: Intermediate	<b>04</b>	<b>100</b>
<b>B. Sc. Second Year (Semester-IV)</b>			
BEC-19	International Economics	<b>04</b>	<b>100</b>
BEC-20	Rural and Agricultural Economics	<b>04</b>	<b>100</b>
BEC-21	Public Policy	<b>04</b>	<b>100</b>
BEC-22	Mathematical Economics	<b>04</b>	<b>100</b>
BEC-23	Environmental Economics	<b>04</b>	<b>100</b>
BEC-24	French Language`	<b>04</b>	<b>100</b>

**B.Sc.-M.Sc. Economics Integrated (Five Years) Syllabus**  
**Semester System with Credits and Continuous Internal Evaluation [CIE]**  
**B. Sc. Third Year (Semester-III & IV) in the Department of Economics, Shivaji**  
**University, Kolhapur-4,**  
**[Under Academic Flexibility]**

<b>B. Sc. Third Year (Semester-V)</b>			
<b>Paper Number</b>	<b>Paper Title</b>	<b>Credits</b>	<b>Marks</b>
BEC-25	Indian Economy-II	<b>04</b>	<b>100</b>
BEC-26	Financial Economics	<b>04</b>	<b>100</b>
BEC-27	Industrial Economics	<b>04</b>	<b>100</b>
BEC-28	Development Economics-II	<b>04</b>	<b>100</b>
BEC-29	*Compute Application in Economics-III	<b>04</b>	<b>100</b>
BEC-30	English for Economics: Advanced	<b>04</b>	<b>100</b>
<b>B. Sc. Third Year (Semester-VI)</b>			
BEC-31	Nobel laureates in Economics	<b>04</b>	<b>100</b>
BEC-32	Research Methodology	<b>04</b>	<b>100</b>
BEC-33	Managerial Economics	<b>04</b>	<b>100</b>
BEC-34	Costs and Accounts	<b>04</b>	<b>100</b>
BEC-35	Project Report	<b>04</b>	<b>100</b>
BEC-36	German and French Language	<b>04</b>	<b>100</b>

**B.Sc.-M.Sc. Economics Integrated (Five Years) Syllabus**  
**Semester System with Credits and Continuous Internal Evaluation [CIE]**  
**M. Sc. First Year (Semester-VII & VIII) in the Department of Economics, Shivaji**  
**University, Kolhapur-4,**  
**[Under Academic Flexibility]**

<b>M. Sc. First Year (Semester-VII)</b>			
<b>Paper Number</b>	<b>Paper Title</b>	<b>Credits</b>	<b>Marks</b>
MEC-1	Micro Economic Analysis	<b>04</b>	<b>100</b>
MEC-2	Theory of International Economics	<b>04</b>	<b>100</b>
MEC-3	Advanced Econometrics	<b>04</b>	<b>100</b>
MEC-4	Demography and Gender Studies		
<b>Electives (Any One)</b>			
MEO-1	Economics of Social Sector	<b>04</b>	<b>100</b>
MEO-2	Welfare Economics	<b>04</b>	<b>100</b>
<b>M. Sc. First Year (Semester-VIII)</b>			
MEC-5	Macro Economic Analysis	<b>04</b>	<b>100</b>
MEC-6	International Economics: Trade and Finance	<b>04</b>	<b>100</b>
MEC-7	Resource Economics	<b>04</b>	<b>100</b>
MEC-8	Statistics and Operation Research	<b>04</b>	<b>100</b>
<b>Electives (Any One)</b>			
MEO-3	Labour Economics	<b>04</b>	<b>100</b>
MEO-4	Economics of Agriculture	<b>04</b>	<b>100</b>

**B.Sc.-M.Sc. Economics Integrated (Five Years) Syllabus**  
**Semester System with Credits and Continuous Internal Evaluation [CIE]**  
**M. Sc. Second Year (Semester-IX & X) in the Department of Economics, Shivaji**  
**University, Kolhapur-4,**  
**[Under Academic Flexibility]**

<b>M. Sc. Second Year (Semester-IX)</b>			
<b>Paper Number</b>	<b>Paper Title</b>	<b>Credits</b>	<b>Marks</b>
MEC-9	Monetary Theory and Institutions	<b>04</b>	<b>100</b>
MEC-10	Advanced Financial Economics	<b>04</b>	<b>100</b>
MEC-11	Public Economics	<b>04</b>	<b>100</b>
MEC-12	Time Series Econometrics	<b>04</b>	<b>100</b>
<b>Electives (Any One)</b>			
MEO-5	Industrial Economics	<b>04</b>	<b>100</b>
MEO-6	Behavioral Economics	<b>04</b>	<b>100</b>
<b>M. Sc. Second Year (Semester-X)</b>			
MEC-13	Economics of Growth and Development	<b>04</b>	<b>100</b>
MEC-14	Business Analytics	<b>04</b>	<b>100</b>
MEC-15	*Computer Programming in Economics	<b>04</b>	<b>100</b>
MEC-16	Dissertation	<b>04</b>	<b>100</b>
<b>Electives (Any One)</b>			
MEO-7	Urban Economics	<b>04</b>	<b>100</b>
MEO-8	Law and Economics	<b>04</b>	<b>100</b>

- Note:**
1. BEC-1 to BEC-36 are compulsory papers. Each paper will be of 100 marks (Semester examination 80 marks, CIE 20 Marks)
  2. MEC-1 to MEC-16 are compulsory papers and MEO-1 to MEO-8 are Elective papers. The students can select any one elective papers from elective category.
  3. The syllabi of each paper per semester are spread over 60 instructional hours.
  4. Maximum Credits for one paper: 4 Credits

**12. SCHEME OF TEACHING AND EXAMINATION:**

**B. Sc. First Year (Semester-I)**

Sr. No.	Subject /Paper	Teaching Scheme (Hrs/Week)				Examination Scheme (Marks)		
		L	T	P	Total	[Sem. Exam]	CIE	Total
BEC-1	Micro Economics-I	04	--	---	04	80	20	100
BEC-2	Mathematics for Economics	04	--	---	04	80	20	100
BEC-3	Indian Economy-I	04	--	-	04	80	20	100
BEC-4	Economic Thoughts	04	--	---	04	80	20	100
BEC-5	Statistics-I	04	--	---	04	80	20	100
BEC-6	English for Economics: Elementary	04	--	---	04	80	20	100

**B. Sc. First Year (Semester-II)**

Sr. No.	Subject /Paper	Teaching Scheme (Hrs/Week)				Examination Scheme (Marks)		
		L	T	P	Total	[Sem. Exam]	CIE	Total
BEC-7	Micro Economics-II	04	--	---	04	80	20	100
BEC-8	Macro Economics-I	04	--	---	04	80	20	100
BEC-9	Econometrics-I	04	--	---	04	80	20	100
BEC-10	Financial Methods	04	--	---	04	80	20	100
BEC-11	*Computer Application in Economics-I	02	--	04 <sup>#</sup>	18	50	**50	100
BEC-12	German Language	04	--	---	04	80	20	100

**B. Sc. Second Year (Semester-III)**

Sr. No.	Subject /Paper	Teaching Scheme (Hrs/Week)				Examination Scheme (Marks)		
		L	T	P	Total	[Sem. Exam]	CIE	Total
BEC-13	Macro Economics-II	04	--	---	04	80	20	100
BEC-14	Econometrics-II	04	--	---	04	80	20	100
BEC-15	Development Economics-I	04	--	---	04	80	20	100
BEC-16	Public Finance	04	--	---	04	80	20	100
BEC-17	*Computer Application in Economics-II	02	--	04 <sup>#</sup>	18	50	**50	100
BEC-18	English for Economics: Intermediate	04	--	---	04	80	20	100

**B. Sc. Second Year (Semester-IV)**

Sr. No.	Subject /Paper	Teaching Scheme (Hrs/Week)				Examination Scheme (Marks)		
		L	T	P	Total	[Sem. Exam]	CIE	Total
BEC-19	International Economics	04	--	---	04	80	20	100
BEC-20	Rural and Agricultural Economics	04	--	---	04	80	20	100
BEC-21	Public Policy	04	--	---	04	80	20	100
BEC-22	Mathematical Economics	04	--	---	04	80	20	100
BEC-23	Environmental Economics	04	--	---	04	80	20	100
BEC-24	French Language	04	--	---	04	80	20	100

**B. Sc. Third Year (Semester-V)**

Sr. No.	Subject /Paper	Teaching Scheme (Hrs/Week)				Examination Scheme (Marks)		
		L	T	P	Total	[Sem. Exam]	CIE	Total
BEC-25	Macro Economics-II	04	--	---	04	80	20	100
BEC-26	Econometrics-II	04	--	---	04	80	20	100
BEC-27	Development Economics-I	04	--	---	04	80	20	100
BEC-28	Public Finance	04	--	---	04	80	20	100
BEC-29	*Computer Application in Economics-II	02	--	04 <sup>#</sup>	18	50	**50	100
BEC-30	English for Economics: Advanced	04	--	---	04	80	20	100

**B. Sc. Third Year (Semester-VI)**

Sr. No.	Subject /Paper	Teaching Scheme (Hrs/Week)				Examination Scheme (Marks)		
		L	T	P	Total	[Sem. Exam]	CIE	Total
BEC-31	Nobel laureates in Economics	04	--	---	04	80	20	100
BEC-32	Research Methodology	04	--	---	04	80	20	100
BEC-33	Managerial Economics	04	--	---	04	80	20	100
BEC-34	Costs and Accounts	04	--	---	04	80	20	100
BEC-35	Project Report	04	--	---	04	80	20	100
BEC-36	German and French Language	04	--	---	04	80	20	100

**M. Sc. First Year (Semester-VII)**

Sr. No.	Subject /Paper	Teaching Scheme (Hrs/Week)				Examination Scheme (Marks)		
		L	T	P	Total	[Sem. Exam]	CIE	Total
MEC-1	Micro Economic Analysis	04	--	---	04	80	20	100
MEC-2	Theory of International Economics	04	--	---	04	80	20	100
MEC-3	Advanced Econometrics	04	--	---	04	80	20	100
MEC-4	Demography and Gender Studies	04	--	---	04	80	20	100
<b>Electives (Any One)</b>								
MEO-1	Economics of Social Sector	04	--	---	04	80	20	100
MEO-2	Welfare Economics	04	--	---	04	80	20	100

**M. Sc. First Year (Semester-VIII)**

Sr. No.	Subject /Paper	Teaching Scheme (Hrs/Week)				Examination Scheme (Marks)		
		L	T	P	Total	[Sem. Exam]	CIE	Total
MEC-5	Macro-Economic Analysis	04	--	---	04	80	20	100
MEC-6	International Economics: Trade and Finance	04	--	---	04	80	20	100
MEC-7	Resource Economics	04	--	---	04	80	20	100
MEC-8	Statistics and Operation Research	04	--	---	04	80	20	100
<b>Electives (Any One)</b>								
MEO-3	Labour Economics	04	--	---	04	80	20	100
MEO-4	Economics of Agriculture	04	--	---	04	80	20	100

**M. Sc. Second Year (Semester-IX)**

Sr. No.	Subject /Paper	Teaching Scheme (Hrs/Week)				Examination Scheme (Marks)		
		L	T	P	Total	[Sem. Exam]	CIE	Total
MEC-9	Monetary Theory and Institutions	04	--	---	04	80	20	100
MEC-10	Advanced Financial Economics	04	--	---	04	80	20	100
MEC-11	Public Economics	04	--	---	04	80	20	100
MEC-12	Time Series Econometrics	04	--	---	04	80	20	100
<b>Electives (Any One)</b>								
MEO-5	Industrial Economics	04	--	---	04	80	20	100
MEO-6	Behavioral Economics	04	--	---	04	80	20	100

### M. Sc. Second Year (Semester-X)

Sr. No.	Subject /Paper	Teaching Scheme (Hrs/Week)				Examination Scheme (Marks)		
		L	T	P	Total	[Sem. Exam]	CIE	Total
MEC-13	Economics of Growth and Development	04	--	---	04	80	20	100
MEC-14	Business Analytics	04	--	---	04	80	20	100
MEC-15	*Computer Programming in Economics	02	--	04 <sup>#</sup>	18	50	**50	100
MEC-16	Dissertation	04	--	---	04	80	20	100
<b>Electives (Any One)</b>								
MEO-7	Urban Economics	04	--	---	04	80	20	100
MEO-8	Law and Economics	04	--	---	04	80	20	100

**Note :**

\* Each Batch 10 students will be 4 practical hours per week (4 Batch x 4 Hrs. = 16)

\*\* CIE 50 Marks (30 Marks for Practical Examination and 20 Marks for Journal)

# Each paper has four Hours Practical for a batch of 10 student which covers, Project Report / Journal / Field Survey / Industry Visit / Visits to Bank & Financial Institutions / Lab Work.

### 13. SCHEME OF EXAMINATION:

1. The Entire B.Sc.-M.Sc. Economics Integrated (Five Years) Course shall have 60 papers [Every semester shall have six papers] each carrying 100 marks. Thus, entire B.Sc.-M.Sc. Economics Integrated (Five Years) examination shall be of 6000 total marks.
2. The system of examination would be Semester with credit system and Continuous Internal Evaluation (CIE). The examination shall be conducted at the end of each semester.
3. There shall be Continuous Internal Evaluation (CIE) System within the Semester System. In this System, for every paper, 20 marks are allotted for Internal Assessment and 80 Marks for the Semester Examination of three hours duration, that will be held by the end of each term. (For Computer Application in Economics I, II, and III and Computer Programming in Economics will have 50 Marks Continuous Internal Evaluation (CIE).
4. **Allocation and Division of CIE Marks:** For every paper, CIE component shall carry 20 marks.
  - (i) During every Semester, every student shall have to submit home assignments or present seminar papers or book review carrying 20 marks for each paper, on the topics given by the respective course teachers.
  - (ii) For papers having Practical component, students shall have to submit Project Report / Journal / Field Survey / Industry Visit / Visits to Bank & Financial Institutions / Lab Work carrying 20 marks. For these papers, students shall be exempted from home assignments/seminars and written Internal test.

(ii) For papers having project reports carrying 20 marks, students shall be exempted from home assignments/seminars and written test.

(iv) CIE will be conducted only once before the commencement of semester examination.

**5. CIE - Re-examination:** The CIE re-examination shall be conducted by the Head of the Department

**6. Semester-Re-Examination:** In case candidates who fail in any of the papers in any semester examination, they can appear for the re-examination as per the University rules.

#### **14. Standard of Passing**

- 1) To pass each paper 40 marks out of 100 are required.
- 2) Semester Examination: In every paper a candidate should obtain a minimum of 40 % of total marks i.e. 32 marks out of 80 marks.
- 3) CIE – For every CIE component, a candidate should obtain a minimum of 40 % of the total marks, i.e. 4 out of 10 and/or 08 out of total 20 marks.
- 4) A candidate must obtain minimum marks as mentioned above in both the Heads of Passing. In other words, he/she must pass in both the Semester examination as well as CIE examination
- 5) The details regarding Standard of Passing are given under credit system.

#### **15. Credit System:**

EXAMINATION BY CREDIT SYSTEM APPLICABLE TO M B.Sc.-M.Sc. Economics Integrated (Five Years) COURSE FROM JUNE 2022 IN ECONOMICS, DEPARTMENT OF ECONOMICS, SHIVAJI UNIVERSITY, KOLHAPUR.

##### **Introduction:**

Credits are a value allocated to course units to describe the student's workload (i.e. Lectures, Practical work, Seminars, private work in the library or at home and examinations or other assessment activities) required to complete them. They reflect the quantity of work each course requires, in relation to the total quantity of work required to complete during a full year of academic study in the Department. Credit thus expresses a relative value.

Students will receive credit through a variety of testing programmes if they have studied a subject independently or have successfully completed department level regular course work. The objective of credit system is to guarantee the academic recognition of studies throughout the world, enabling the students to have access to regular vertical and or horizontal course in any Institutions or the Universities in the world.

##### **Types of Credits:**

There shall be two types of credits viz. a) Credit by Examination and b) Credit by Non-Examination.

a) **Credit by Examination:** -

Students can earn credit towards his/her Graduation and Post-graduation upon the successful completion of the tests in the credit by examination programme.

b) **Credit by Non-examination:-**

Students can also earn credit by non-examination by proving his/her proficiency in State, National and International sports' achievements, Social Service (NSS), Military Services (NCC), Colloquium & debate, Cultural programme as shown below during the study period.

Sports Achievements /Participation (Any one event during the academic session)	Credits	NSS Recognition /Achievement (Any one event during the academic session)	Credits	NCC Achievements (Any one event during the academic session)	Credits
Olympics	15	International	10	R. D. Pared	6
International	10	National	8	Summer Camp (More than 10 days)	6
National	8	Regional/Zonal	6	National level training (More than 10 days)	5
Regional/Zonal	6	State	4	State level training (More than 10 days)	4
State	4	University	3	University level training (More than 10 days)	3
Inter-University	4	BestUniversity Volunteer	3	C certificate	2
University	3	2 Years NSS + 2 NSS Camps	2	Any special Camps of more than 2 weeks	2
Inter-collegiate/PE Exam.	2	2 Years NSS + 1 NSS Camp	2	Any special Camps of more than one week	2

**Mechanism of Credit System: -**

Credit is a kind of weightage given to the contact hours to teach the prescribed syllabus, which is in a modular form. Normally one credit is allotted to 15 contact hours. It is 30 contact hours in European system. The instructional days as worked out by the UGC are 180 days (30 Weeks). The paper wise instructional days with a norm of 4 contact hours per week per paper will be of 120 days. That is 60 days or 60 contact hours per paper shall be completed during each semester session. By converting these contact hours into credit at the rate of 15 contact hours for each subject, there will be 4 credits allotted to each paper.

### Conversion of Marks into Grades:

The marks obtained by a candidate in each paper or practical/CIE (out of 100 or any fractions like 80:20) shall be converted into grades on the basis of the following table.

Grades points	Range of marks obtained out of 100 or in any fractions	
0	from 00	to 39
1	40	44
2	45	49
3	50	54
4	55	59
5	60	64
6	65	69
7	70	74
8	75	79
9	80	84
10	85	89
11	90	94
12	95	100

The maximum credit point shall be 48 credits (i.e. 12 grade points \* 4 minimum credits) for each paper.

### Grade & Grade Points:

The student's performance of course will be evaluated by assigning a letter grade on a few point scales as given below. The grade points are the numerical equivalent of letter grade assigned to a student in the 12 point's scale,

The grade and grade points and credits shall be calculated as under: -

GRADES	FGPA CREDIT POINTS
O	10 to 12
A+	8 to 9.99
A	6 to 7.99
B+	4 to 5.99
B	2 to 3.99
C+	1 to 1.99
C	0 to 0.99

The grade and grade points and credits shall be calculated as under:-

1. Semester Grade Point Average (SGPA)- means a semester index grade of a student calculated in the

$$SPGA = \frac{(g1 * c1) + (g2 + c2) + \dots \dots}{\text{Total number of credit offered by the student during the semester}}$$

- Final Grade Point Average (FGPA) is the final index of a student in the courses. The final grade point average of student in the courses will be worked out on the basis of the formula indicated below:

$$FGPA = \frac{n}{ci} \div \frac{n}{c1 * g1}$$

Where,

c1= Credit of the i the course (Paper)

g1= Grade point secured in each paper

n = No. of Courses (No. of papers offered - 56)

ci = Total number of the credits for whole examination (224)

### Standard of Passing/ Minimum Credits:

The minimum credits for **B.Sc.-M.Sc. Economics Integrated (Five Years)** Semester course (of ten semesters) will be 24 + 24 + 24 + 24 + 24 + 24 + 20 + 20 + 20 + 20 = 224 credits. For continuation to the corresponding Semesters SGPA= 1-00 credit has to be obtained by a student. And to pass each paper 4 minimum credits are required, it means 40 marks or 1 grade point is required to pass the paper. The FGPA of the whole course shall be Minimum 3 Credits. The required Credits for passing FGPA can be compensated from the Credit by Non-examination. A student securing less than 3 FGPA Credits and passing in an individual paper with minimum 4 Credits can appear any paper of his/her choice from the course curriculum so far offered by him/her.

### Evaluation: -

- The BOS in Economics shall lay down the evaluation system for each course.
- There shall not be rounding off of SGPA/FGPA.
- A student who fails in a course shall be required either to repeat that course or to clear another course in lieu thereof irrespective of his/her past performance in the semester if he/she has been awarded a final grade weighted grade of F in that course.
- A student who secures a grade higher than C in a course may be permitted to improve grade by repeating the course provided that a student willing shall be allowed to do so only if he/she surrenders his/her earlier grade in the course. It will be his/her repeated performance in the course, which will be taken into account to compute the SGPA.
- Non-examination credit shall be counted in the overall performance or for required minimum credits.
- The students shall be further graded on a scale ranging from 0 to 12. The grades and grade points as shown below will express the level of good students.

Overall Final Credits	Degree of Good Students	
10 to 12	Higher Distinction Level	Extraordinary
8 to 9.99	Distinction Level	Excellent
6 to 7.99	First Class	Very Good
4 to 5.99	Higher Second Class	Good
2 to 3.99	Second Class	Satisfactory
1 to 1.99	Pass	Fair
0 to 0.99	Fail	Unsatisfactory

<b>1) B. Sc. I (Semester I)</b>	6 papers with 4 minimum credit each i.e. a total of minimum 24 credits for each Semester.					
1. Papers	Paper BEC-1	Paper BEC-2	Paper BEC-3	Paper BEC-4	Paper BEC-5	Paper BEC-6
2. Minimum Credits	4	4	4	4	4	4
3. Grade points obtained	3	5	6	4	5	4
4. $c1 * g1$	$3 * 4$	$5 * 4$	$6 * 4$	$4 * 4$	$5 * 4$	$4 * 4$
	=12	=20	=24	=16	=20	=16
	$12 + 20 + 24 + 16 + 20 + 16 = 108$					
5. $\frac{c1 * g1}{ci}$	$\frac{108}{24}$					
6. SGPA =	4.5					

<b>M. Sc. (Semestre VII)</b>	5 papers with 4 minimum credit each i.e. a total of minimum 20 credits for each Semester.				
1. Papers	Paper MEC-1	Paper MEC-2	Paper MEC-3	Paper MEC-4	Paper MEO-1
2. Minimum Credits	4	4	4	4	4
3. Grade points obtained	2	3	9	8	6
4. $c1 * g1$	$2 * 4$	$3 * 4$	$9 * 4$	$8 * 4$	$6 * 4$
	=8	=12	=36	=32	=24
	$8 + 12 + 36 + 32 + 24 = 112$				
5. $\frac{c1 * g1}{ci}$	$\frac{112}{20}$				
6. SGPA =	5.6				

**16. NATURE OF QUESTION PAPER AND SCHEME OF MARKING:-**

There will be four questions in the question paper each carrying 20 marks.  
All questions shall be compulsory,

**NATURE OF QUESTION PAPER AND SCHEME OF MARKING  
[UNDER ACADEMIC FLEXIBILITY]**

**SHIVAJIUNIVERSITY, KOLHAPUR  
B.Sc.-M.Sc. Economics Integrated (Five Years) SEMESTER-  
I/II/III/IV/V/VI/VII/VIII/IX/X EXAMINATION, YYYY  
PAPER No.-----Paper Title-----**

**Day and Date :** **Total Marks: 80**  
**Duration : 03 Hours**

**Instructions: 1) All questions are compulsory.  
2) All questions carry equal marks.**

Q. No. 1: (A) Multiple Choice Questions (2 Marks Each)	<b>10</b>
(B) Answer in One or Two Sentences (2 Marks Each)	<b>10</b>
Q. No. 2: Short Notes (Any Four out of Six)	<b>20</b>
Q. No. 3: Descriptive Type Questions with internal choice	<b>20</b>
Q. No. 4: Descriptive Type Question with internal choice.	<b>20</b>

=====

**Nature of Question paper and Scheme of Marking  
Paper No. BEC-11, BEC-17, BEC-29 and MEC 15**

**Duration: 02 Hours** **Total Marks: 50**

Q. 1	A) Multiple Choice Questions	05 Marks
	B) Answer in One or Two Sentences	05 Marks
Q. 2	Short Notes (Any Two out of Four)	10 Marks
Q. 3	Descriptive type questions with internal choice	15 Marks
Q. 4	Questions on Quantitative Techniques (Any Two out of Three)	15 Marks

**17. EQUIVALENCE IN ACCORDANCE WITH TITLES AND CONTENTS OF PAPERS- (FOR REVISED SYLLABUS): NA.**

**18. SPECIAL INSTRUCTIONS, IF ANY. NIL**

**19. OTHER FEATURES:**

**1. INTAKE CAPACITY / NUMBER OF STUDENTS: 40**

**(i) B.Sc.-I :40**

**(ii) B. Sc.-II :40**

**(iii)B. Sc.-III :40**

**(iv)M. Sc.-I :40**

**(v) M. Sc.-II :40**

**2. TEACHERS QUALIFICATIONS:-**

**(i) As prescribed by norms.**

**(ii) Work load of teachers in the department as per Apex body/UGC/State Govt./University norms.**

**(iii) List of books/journals are given for each paper**

**(iv) Teaching Aids like TV, VCR, LCD, OHP, Computer Software's, SPSS, Internet facilities etc. are available in the Department.**

**20. A copy of Syllabus for B.Sc.-M.Sc. Economics Integrated (Five Years) (Semester-I and II) is enclosed herewith.**

**SHIVAJIUNIVERSITY, KOLHAPUR**  
**DEPARTMENT OF ECONOMICS**  
**B.Sc.-M.Sc. Economics Integrated (Five Years)**  
**B. Sc. First Year**  
**Semester-I**

<b>Paper Code</b>	<b>Paper Title</b>
BEC-1	Micro Economics-I
BEC-2	Mathematics for Economics
BEC-3	Indian Economy-I
BEC-4	Economic Thoughts
BEC-5	Statistics-I
BEC-6	English for Economics: Elementary

## **B.Sc.-M. Sc. Economics Integrated (Five Year)**

First Year Semester-I

Title of the Paper:- **Micro Economics-I**

Paper No. **BEC-1**

Total Credits: 4

### **Course Outcomes:**

1. Student will be able to understand the individual decision making.
2. Student will get the theoretical understanding of demand and supply.
3. Student will get the knowledge about the household consumption decisions.
4. Student will be able to differentiate the firm from industry.

<b>Unit 1 Introduction to Micro Economics</b>	15 (Periods)
1.1 Meaning and scope of micro economics, Scarcity and choice, problem of scarcity and affluence	
1.2 Positive and normative economics and basic tool for economics analysis	
1.3 Basic economic Problems, Choice of technique of production and the problem of economic efficiency	
1.4 Nature of economic reasoning Deductive v/s Inductive method, role of assumptions in economic theory	
 <b>Unit 2 Demand and Supply</b>	 15 (Periods)
2.1 Demand function; Individual and Market demand function, Significance of demand function, shift in demand curve	
2.2 Law of Demand; Factors determining demand, relationship between demand function and demand curve. Elasticity of demand	
2.3 Supply: Supply function, relation between supply and price	
2.4 Law of Supply; Shift in supply curve elasticity of supply, factors determining elasticity of supply, Concept of market equilibrium	
 <b>Unit 3 Theory of Consumer Behaviour</b>	 15 (Periods)
3.1 Utility Analysis: Cardinal v/s Ordinal Total, Average and Marginal Utility	
3.2 Law of Diminishing Marginal utility, Law of Equi-marginal utility, Derivation of Demand Curve	
3.3 Consumption Decisions, Consumption, Income and Price	
3.4 Consumer Surplus and Measurement.	
 <b>Unit 4 Firm and Industry</b>	 15 (Periods)
4.1 Objectives and nature of the firm Types of Business Organisation	
4.2 Production Function, Total, Average and Marginal Physical Product	
4.3 Law of Variable Proportions	
4.4 Law of Returns to Scale	

## References/Reading List

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2. D. N. Dwivedi, (2008) Microeconomic Theory and Applications, Pearson Education
3. Robert, Daniell and Prem L. (2009), Microeconomics, Pearson Prentice Hall, Noida.
4. Hal R., Varian ( 2010): Intermediate Microeconomics: A Modern Approach, Springer ( India) Pvt. Ltd. India
5. Koutsoyiannis, A. (1979), Modern Microeconomics (2nd Edition), Macmillan Press, London
6. Sen, A. (1999), Microeconomics: Theory and Applications, Oxford University Press, New Delhi
7. Archibald, G. C. (Ed.) (1971), Theory of the firm, Penguin, Harmondsworth
8. Da Costa, G. C. (1980), Production, Prices and Distribution, Tata McGraw Hill, New Delhi
9. Green, H. A. G. (1971), Consumer Theory, Penguin, Harmondsworth
10. Stigler, G. (1996), Theory of Price, (4th Edition), Prentice Hall of India, New Delhi.

## **B.Sc.-M. Sc. Economics Integrated (Five Year)**

First Year Semester-I

Title of the Paper:- **Mathematics for Economics**

Paper No. **BEC-2**

Total Credits: 4

### **Course Outcomes:**

1. The student will be able to understand basic concepts of Mathematics.
2. The student will be able to do matrix operations.
3. The student will be able to understand process of differentiation.
4. The student will be able to understand process of integration.

### **Unit-I Preliminaries: Sets, Functions and Straight Line** (15 Periods)

- 1.1 Sets-Basic set operations, convex sets;
- 1.2 Functions-Meaning, elementary types of functions: quadratic, polynomial, power, exponential, logarithmic;
- 1.3 Convex, concave, quasi concave, homogeneous and homothetic functions;
- 1.4 Straight line and its equation

### **Unit-II Matrix Algebra** (15 Periods)

- 2.1 Matrix-Concept, Meaning and Types;
- 2.2 Operations of Matrices-Addition, Subtraction and Multiplication; Determinant of Matrices, Rank of Matrix
- 2.3 Inverse of Matrix
- 2.4 Solution of Simultaneous Equations using Matrix

### **Unit-III Differential Calculus** (15 Periods)

- 3.1 Differentiation-Meaning and concept
- 3.2 Differential Calculus of One Variable-Rules of differentiation
- 3.3 Differential Calculus of Two Variables-Partial Differentiation and Total Differentiation
- 3.4 Maxima and Minima

### **Unit-IV Integral Calculus** (15 Periods)

- 4.1 Integration-Concept , Meaning
- 4.2 Rules of Integration
- 4.3 Indefinite Integration
- 4.4 Definite integration

### **References/Reading List**

1. D. Bose: An Introduction to Mathematical Economics, Himalaya Publishing House
2. Edward T. Dowling: Introduction to Mathematical Economics, McGraw Hill
3. Mehata and Madnani: Mathematics for Economists, Sultan Chand & Sons
4. K. Sydsaeter and P. Hammond, Mathematics for Economic Analysis, Pearson Educational Asia: Delhi.
5. A.Chiang & K.Wainwright: Fundamental Methods of Mathematical Economics, McGraw Hill.
6. E. Silberberg & Suen: The Structure of Economics, McGraw Hill.
7. Simon & Blume: Mathematics for Economists, Viva Books.
8. Rudin W.: Principles of Mathematical Analysis, McGraw-Hill

## **B.Sc.-M. Sc. Economics Integrated (Five Year)**

First Year Semester-I

Title of the Paper: - **Indian Economy-I**

Paper No. **BEC-3**

Total Credits: 4

### **Course Outcomes:**

1. Equip with the knowledge about nature of Indian economy.
2. Understand the nexus between population growth and development related issues.
3. Capable to take an overview of Indian economy.
4. Analyse the major problems and challenges before economy.

<b>Unit-I</b>	<b>Nature of Indian Economy</b>	(15 Periods)
	1.1 India as an Under developed Economy	
	1.2 India as a Developing Economy	
	1.3 Natural Resources: Land, Water, Forest and Mineral resources	
	1.4 Infrastructure: Electricity, Transport, Communications	
<b>Unit-II</b>	<b>Population Growth and Economic Development</b>	(15 Periods)
	2.1 Trends in Size and Growth of Population - Sex Composition, Age Composition, Rural –Urban distribution, Migration-Smart City Mission	
	2.2 Causes of Population Growth and Remedies on Control	
	2.3 Population and Economic Development - Latest Population Policy	
	2.4 Human Resource Development: Education and Health – Latest Education Policy, Health Policy	
<b>Unit-III</b>	<b>Macro-Economic Overview of Indian Economy</b>	(15 Periods)
	3.1 Trends in NNP	
	3.2 Per Capita National Income	
	3.3 Service Led Growth	
	3.4 GDP by Industry Origin	
<b>Unit-IV</b>	<b>Major Problems of Indian Economy</b>	(15 Periods)
	4.1 Labour Force Growth and Occupational Structure	
	4.2 Employment and Unemployment	
	4.3 Poverty	
	4.4 Income Inequality	

### **References/Reading List**

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2. Dutt and Sundaram , Indian Economy, S Chand & Company Ltd (head Office), Delhi.
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8. Dandekar, V. M. (1996), *The Indian Economy, 1947-92, Vol. II*, Sage Publications, New Delhi.
9. Dantwala, M. L. (1996), *Dilemmas of Growth: The Indian Experience*, Sage Publications, New Delhi.
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11. Frederick, H. and A. M. Charles (1970), *Education, Manpower and Economic Growth*, New Delhi.
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13. Government of India, *Planning Commission (1999), Reports*, New Delhi.
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## **B.Sc.-M. Sc. Economics Integrated (Five Years)**

First Year Semester-I

Title of the Paper: - **Economic Thoughts**

Paper No. **BEC-4**

Total Credits: 4

### **Course Outcomes:**

1. Equip with the knowledge about the evolution of economic history.
2. Understanding the contributions of different economics school to the economic theory.
3. Strengthening the capability of understanding diverse economic thinking.

### **Unit-I Pre and Classical Period of Economic Thoughts (15 Periods)**

- 1.1 Evolution of Economic Thoughts: Physiocracy and Mercantilism
- 1.2 Adam Smith: Division of Labour, Theory of Value, Capital Accumulation and Distribution
- 1.3 David Ricardo: theory Value, Rent and Distribution
- 1.4 Karl Marx: Dynamics of Social Changes, Theory of Value and Surplus Value, Profit and Crisis of Capitalism and Contemporary Relevance.

### **Unit-II Marginalist: Marshall to Schumpeter (15 Periods)**

- 2.1 Time and Price Determination, Economic Methods, Ideas on Consumer and Producers' Surplus
- 2.2 Representative Firm, External and Internal Economies and Diseconomies, Rent and Quasi-Rent, Nature of Profit
- 2.3 Pigou: Welfare Economics, Pigou- Marshall and Externality
- 2.4 Schumpeter: Entrepreneur and Innovation

### **Unit-III Keynes and Sraffa (15 Periods)**

- 3.1 Keynesian Underemployment Equilibrium
- 3.2 Liquidity Preference Theory and Liquidity Trap, Consumption Function
- 3.4 Pump Priming, Investment Function, Multiplier & accelerator Principles and Their Interaction, Wage Rigidities
- 3.4 Piero Sraffa: Productivity under Competitive Conditions - Sraffa V/S Keynes

### **Unit-IV Post- Keynesian and Modern Mainstream (15 Periods)**

- 4.1 Orthodox v/s Heterodox Economics
- 4.2 Hayek – Supply side economics: Arthur Laffer, Evans
- 4.3 Monetarism: Milton Friedman, Don Patinkin  
An overview of the New Classical Economics: Robert Lucas
- 4.4 A. K. Sen (1998), Joseph Stiglitz (2001), Paul Krugman (2008), Jean Tirole (2014), Angus Deaton (2015), Richard Thaler (2017), Banarjee & Duflo (2019)

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2. Gide, O. and G. Rist (1956) *A History of Economic Doctrine*, George Harrop Co., London,
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Dasgupta A. K (1985) *Epochs of Economic Theory* Oxford University Press. New Delhi,
4. Schumpeter, J.A (1951) *Ten Great Economist*, Oxford University Press, New York
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7. Ajit Sinha (ed) (2021) *A Reflection on Sraffa’s Revolution in Economic Theory*, Springer.
8. Banarjee & Duflo (2019) *Good Economics for Hard Times: Better Answers to Our Biggest Problems* published by PublicAffairs UK

## **B.Sc.-M. Sc. Economics Integrated (Five Year)**

First Year Semester-I

Title of the Paper:-**Statistics-I**

Paper No. **BEC-5**

Total Credits: 4

### **Course Outcomes:**

1. The student will be able to understand basic concepts of Statistics.
2. The student will be able to do sampling and data processing.
3. The student will be able to understand central tendency.
4. The student will be able to understand dispersion.

### **Unit-I      Statistics-Conceptual Framework      (15 Periods)**

- 1.1    Statistics- Origin, Meaning, and Growth
- 1.2    Statistical Data Methods and applications
- 1.3    Functions and Importance of Statistics
- 1.4    Limitations of Statistics, Methods and Experimentation, Statistics and Computer

### **Unit-II      Sampling and Data Processing      (15 Periods)**

- 2.1    Types of Data-Primary and Secondary, Methods of Collecting Primary Data, Sources of Secondary Data
- 2.2    Census and Sampling Methods, Methods of Sampling-Non-probability and Probability, Determination of sample size
- 2.3    Classification of data-Types of Classification, Formation of Frequency Distribution
- 2.4    Diagrammatic and Graphic Presentation- Types of Diagram and Graphs.

### **Unit-III      Measures of Central Tendency      (15 Periods)**

- 3.1    Meaning, Objectives of averaging, Characters of a good average
- 3.2    Mean and Weighted mean: features and formulae
- 3.3    Median and Mode: features and formulae
- 3.4    Geometric Mean, Harmonic Mean: features and formulae

### **Unit-IV      Measures of Dispersion      (15 Periods)**

- 4.1    Meaning and significance
- 4.2    Objectives of Measuring Dispersion, Properties of a Good Measure of Dispersion
- 4.3    Methods of Studying Dispersion-Range, Inter-quartile range, Quartile Deviation
- 4.4    Methods of Studying Dispersion-Mean Deviation, Standard Deviation

### **References/Reading List**

1. Gupta, S. C.: Fundamentals of Applied Statistics, S. Chand & Sons., New Delhi.
2. Gupta, S.P.: Statistical Methods, Sultan Chand & Sons, New Delhi
3. Elhance, Elhance, and Aggarwal: Fundamentals of Statistics, Kitab Mahal, Allahabad

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6. Chiang, A. C. (1986), *Fundamental Methods of Mathematical Economics*, McGraw Hill, New York.
7. Croxton, Crowden and Klein (1971), *Applied General Statistics*, Prentice Hall of India, New Delhi.
8. Goon, A. M., M. K. Gupta and B. Dasgupta (1993), *Fundamentals of Statistics, Vol. 1*, The World Press Ltd., Calcutta.
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## **B.Sc.-M. Sc. Economics Integrated (Five Year)**

First Year Semester-I

Title of the Paper: - **English for Economics Elementary :**

Paper No. **BEC-6**

Total Credits: 4

### **Course Outcomes:**

1. The students will enhance their English Listening, Reading, Writing and Speaking skills specifically related to business and economics needs.
2. The students will be able to successfully communicate in English for spoken and written purposes at workplace.
3. The students will master the use of English in official context as that of day-to-day office communication, telephonic conversations and writing emails.
4. The students will be able to develop their vocabulary related to business and economics.
5. The students will brush-up and enrich their grammatical competence..

<b>Unit-I</b>	<b>Listening and Reading Skills</b>	(15 Periods)
	<ol style="list-style-type: none"><li>1.1 Talking about workplace (Listening component from Unit 2 ‘Corporate Culture’ from Whitby, Business Benchmark)</li><li>1.2 Telephoning and voicemail (Listening component from Unit 7 &amp; 9 from Whitby, Business Benchmark)</li><li>1.3 Reading business articles, news (‘FX trading’ from Unit 13 ‘Foreign Exchange’, and ‘Why Stock Markets Matter for You’ from Unit 15 ‘Stocks and Shares’ in English for the Financial Sector by MacKanzie)</li><li>1.4 Reading business article (‘Designing your Website’ from Unit 4 ‘The Internet’ from Whitby, Business Benchmark)</li></ol>	
<b>Unit-II</b>	<b>Speaking Skills</b>	(15 Periods)
	<ol style="list-style-type: none"><li>2.1 Short talk on a topic</li><li>2.2 Telephonic conversations</li><li>2.3 Group Discussions</li><li>2.4 Situational Conversations (for example, at the hotel reception, planning a sales event, at the bank to open an account, at the business working lunch, etc.)</li></ol>	
<b>Unit-III</b>	<b>Writing Skills</b>	(15 Periods)
	<ol style="list-style-type: none"><li>3.1 Writing paragraphs with cohesive devices (topic sentence, supporting details, etc.)</li><li>3.2 Paraphrasing, notemaking, summarising</li><li>3.3 Email writing and email etiquette (difference between formal and informal language)</li><li>3.4 Essay writing</li></ol>	
<b>Unit-IV</b>	<b>Grammar and Vocabulary</b>	(15 Periods)
	<ol style="list-style-type: none"><li>4.1 Tenses</li><li>4.2 Use of articles</li><li>4.3 Economic and business terms (Key vocabulary from Unit 1 and 7, English for the Financial Sector by MacKanzie)</li><li>4.4 Common errors related to grammar and vocabulary</li></ol>	

## References/Reading List

- 1 .Whitby, Norman. 2006. Business Benchmark: Pre intermediate to Intermediate. Cambridge University Press
2. Cambridge University. *English for Financial Sector Students* .MacKenzie, Ian. 1997 .Press
3. *English for Business Studies: A Course for Business Studies* .MacKenzie, Ian. 1997 .Cambridge University Press .and *Economics Students*
4. Murphy, Raymond. 2008. Essential English Grammar. Cambridge University Press
5. Redman, Stuart. 2003. English Vocabulary in Use. Cambridge University Press.
- 6.Redman, Peter and Maples, Wendy .2011 .Good Essay Writing: A Social Sciences Guide .SAGE Publication
- 7.Petchko ,Katerina .2018 .How to Write about Economics and Public Policy .Academic Press.
- 8.Lawson, Celeste , Gill, Robert ,Feekery, Angela and Witsel , Mieke .2019 . Communication Skills for Business Professionals.Cambridge University Press .
- 9Michael McCarthy, Jeanne McCarten, David Clark, Rachel Clark .2009 . Grammar for Business with Audio CD .Cambridge University Press .

**SHIVAJIUNIVERSITY, KOLHAPUR**  
**DEPARTMENT OF ECONOMICS**  
**B.Sc.-M.Sc. Economics Integrated (Five Years)**  
**B. Sc. First Year**  
**Semester-II**

<b>Paper Code</b>	<b>Paper Title</b>
BEC-7	Micro Economics-II
BEC-8	Macro Economics-I
BEC-9	Econometrics-I
BEC-10	Financial Methods
BEC-11	Computer Application in Economics-I
BEC-12	German Language

## **B.Sc.-M. Sc. Economics Integrated (Five Year)**

First Year Semester-II

Title of the Paper:- **Micro Economics II**

Paper No. **BEC-7**

Total Credits: 4

### **Course Outcome:**

- 1 Student will be able to understand different forms of market and price and output determination.
- 2 Student will get trained about the consumer theory.
- 3 Student will get acquainted with various inputs and its market behaviour.
- 4 Student will get clarity about the welfare aspect of economics.

<b>Unit 1</b>	<b>Market Structure</b>	15 (Periods)
	1.1 Meaning and Classification, Market Structure and Profitability,	
	1.2 Perfect Competition; Features, Short and Long Run Price and Output Determination of Firm and Industry Efficiency of Perfect Competitive Market	
	1.3 Monopoly; Price Discrimination, Price and Output Determination, Degree of Monopoly Power	
	1.4 Monopolistic Competition: Features, Product Differentiation, Short and Long run Price and Output Determination	
<b>Unit 2</b>	<b>Consumer Behaviour</b>	15 (Periods)
	2.1 Indifference Curve; Meaning and Properties, Superiority of Ordinal over Cardinal Approach	
	2.2 Marginal Rate of Substitution, Consumer Equilibrium,	
	2.3 Income and Price Consumption Curve, Derivation of Individual Demand Curve from Indifference Curve.	
	2.4 Revealed Preference Theory of Demand	
<b>Unit 3</b>	<b>Factor Pricing</b>	15 (Periods)
	3.1 Concept of Factor Productivity; Marginal Revenue Product, Value of Marginal Product	
	3.2 Wage Determination under Perfect Competition, Factor Pricing under Monopsony,	
	3.3 Marginal Productivity Theory of Distribution; Clark and Marshal-Hicks version.	
	3.4 Relative Share of Labour and Capital, Theory of Rent.	
<b>Unit 4</b>	<b>General Equilibrium and Welfare Economics</b>	15 (Periods)
	4.1 Partial and General Equilibrium, General Equilibrium and Economic Efficiency	
	4.2 Welfare Economics; Value Judgement, Individual and Social Welfare	
	4.3 Pareto Optimality, Edgeworth Box Diagram and Contract Curve	
	4.4 Pareto Efficiency and Pareto Competition.	

### **References/Reading List**

1. H. L. Ahuja, (2017), *Advanced Economic Theory: Micro Economic Analysis*, S Chand and Company
2. D. N. Dwivedi, (2008) *Microeconomic Theory and Applications*, Pearson Education
3. Robert, Daniell and Prem L. (2009), *Microeconomics*, Pearson Prentice Hall, Noida.
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5. Koutsoyiannis, A. (1979), *Modern Microeconomics (2nd Edition)*, Macmillan Press, London
6. Sen, A. (1999), *Microeconomics: Theory and Applications*, Oxford University Press, New Delhi
7. Archibald, G. C. (Ed.) (1971), *Theory of the firm*, Penguin, Harmondsworth
8. Da Costa, G. C. (1980), *Production, Prices and Distribution*, Tata McGraw Hill, New Delhi
9. Green, H. A. G. (1971), *Consumer Theory*, Penguin, Harmondsworth
10. Stigler, G. (1996), *Theory of Price*, (4th Edition), Prentice Hall of India, New Delhi.

## **B.Sc.-M. Sc. Economics Integrated (Five Year)**

First Year Semester-II

Title of the Paper:- **Macro Economics-I**

Paper No. **BEC-8**

Total Credits: 4

### **Course Outcomes:**

1. Acquire the prior knowledge of macroeconomic variables.
2. Comparative analysis of theoretical development is essential for the proper comprehension of the different issues and policies.
3. Demonstrate the systemic facts and studies for empirical analysis.
4. Understanding the current situation and Government Policies useful to control and manage the economic problems.

### **Unit-I National Income and Accounts (15 Periods)**

- 1.1 Macroeconomic Statics and Dynamics- National Income Accounts: Gross National Product, Gross Domestic Product, National Income at Factor Cost, Personal and disposable income
- 1.2 National Income at Current and Constant Price, Income Deflator
- 1.3 Methods of Accounting of National Income,
- 1.4 Use and Significance of National Income Accounting.

### **Unit-II Classical and Cambridge Approaches towards Money (15 Periods)**

- 2.1 Cash Transaction Approach
- 2.2 Cash Balance Approach
- 2.3 Keynes' Reformation of quantity theory of money
- 2.4 The Saving-Investment Theory of Money

### **Unit-III Supply of Money (15 Periods)**

- 3.1 Constituents of Supply of Money; Approaches towards Supply of Money
- 3.2 Credit creation, Determinants of Money Supply.
- 3.3 Monetary Policy: Objectives and limitations, Conflicting Objectives.
- 3.4 Fiscal Policy: Objectives and Limitations,

### **Unit-IV Inflation (15 Periods)**

- 4.1 Inflation: Meaning and Types,
- 4.2 Causes and Effects of Inflation,
- 4.3 Theories of Inflation: Demand Pull, Cost-Push, Built in Inflation, Measures to Control the Inflation
- 4.4 Phillips curve: Short run and Long run

## References/Reading List

1. Bernanke, Ben, and Frederic Mishkin (1997). "Inflation Targeting: A New Framework for Monetary Policy?" *Journal of Economic Perspectives*, vol. 11, pp. 97-116.
2. Mishkin F.S., "Central Banking in a Democratic Society: Implications for Transition Countries," *Zagreb Journal of Economics*, 3 (3) (1999), pp. 51-74,
3. Jagdish Handa (2000). *Monetary Economics*, Routledge, USA, ISBN 978-0-415-199125-4
4. Jhingam M. L.(2010). *Macro-Economic Theory*, Vrinda Publication, New Delhi, ISBN - 81 - 87125 - 45 - 4
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## **B.Sc.-M. Sc. Economics Integrated (Five Year)**

First Year Semester-II

Title of the Paper:- **Econometrics-I**

Paper No. **BEC-9**

Total Credits: 4

### **Course Outcomes:**

1. The student will be able to Formulate Econometric Model.
2. The student will be able to estimate different Econometric Models.
3. The student will be able to interpret the Econometric Model.
4. The student will be able to Compare the Econometric Models.

<b>Unit-I</b>	<b>Introduction to Econometrics</b>	(15 Periods)
	1.1 Definition, Nature & Scope of Econometrics	
	1.2 Methodology of Econometrics	
	1.3 Types of Econometrics	
	1.4 Role of Computers	
<b>Unit-II</b>	<b>Single Equation Regressions</b>	(15 Periods)
	2.1 Nature of Regression Analysis	
	2.2 Basics of Two Variable Regression Analysis	
	2.3 Estimating Two Variable Regression Model	
	2.4 Problems in estimation	
<b>Unit-III</b>	<b>Hypothesis Testing &amp; Interval Estimation</b>	(15 Periods)
	3.1 One-Tail & Two-tail Tests	
	3.2 t, F and Chi-square Test	
	3.3 Confidence Intervals for Regression Coefficients	
	3.4 Interpretation of Confidence Intervals	
<b>Unit-IV</b>	<b>Extensions of Two Variable Regression</b>	(15 Periods)
	4.1 Regression Through Origin	
	4.2 Regression on Standardized Variables	
	4.3 Functional Forms of Regression Models	
	4.4 Choice of Functional Form	

### **References/Reading List**

1. Damodar Gujarati: Basic Econometrics, McGraw Hill, New York.
2. Badi H Baltagi: Econometrics, Springer, New York.
3. G S Maddala: Introduction to Econometrics, John Williams and Sons, New York.
4. Amemiya, T. (1985), Advanced Econometrics, Harvard University Press, Cambridge, Mass.
5. Dougherty, C. (1992), Introduction to Econometrics, Oxford University press, New York.
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7. Kennedy, P. (1998), A Guide to Econometrics, MIT press, New York.
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9. Koutsoyiannis, A. (1977), Theory of Econometrics (2nd ed.), The Macmillan Press Ltd., London.
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12. Johnston (1984) Econometrics Methods, MacGraw Hill, New York

## **B.Sc.-M. Sc. Economics Integrated (Five Year)**

First Year Semester-II

Title of the Paper:- **Financial Methods**

Paper No. **BEC-10**

Total Credits: 4

### **Course Outcomes:**

1. The student will be able to understand the financial methods.
2. The student will be able to acquaint the working terminology of the financial world.
3. The student will be able to understand the basic techniques used by analysts working in the field of finance.

### **Unit-I Money and Finance (15 Periods)**

- 1.1 Meaning of Money and Finance- Stocks and Flows
- 1.2 Monetary v/s Financial Assets, Financial Intermediaries, Financial Systems, Instruments,
- 1.3 Financial Statement and Balance Sheet Analysis
- 1.4 Ratio Analysis, Liquidity Leverage, Turnover and Profitability

### **Unit-II Money and Value (15 Periods)**

- 2.1 Time Value of Money- Significance- Simple and Compounded Interest Nominal and Real Rates of Interest,
- 2.2 Future Value of Money Single and Multiple Cash Flows and Annuity
- 2.3 Present Value Single Cash flows Multiple Cash Flows and Annuity Growing Annuity,
- 2.4 Perpetuity and growing Perpetuity Loan Amortisation

### **Unit-III Risks and Returns (15 Periods)**

- 3.1 Risk and return Concepts and relationship
- 3.2 Risk Diversification
- 3.3 Systemic and Unsystemic Risk
- 3.4 Risk Measurement- Variance and Standard deviation

### **Unit-IV Finance and Securities (15 Periods)**

- 4.1 Financial Securities
- 4.2 Bonds and equities: Features and Types
- 4.3 Interest Rates and Yields
- 4.4 Current Yield- Yield to Maturity- Duration

### **References/Reading List**

1. Drake P.P and Fabozzi, F.J (2010). The Basics of Finance: An Introduction to Financial Markets, Business Finance, and Portfolio Management ( Frank J. Fabozzi Series), John Wiley & Sons.
2. Shim, J.K and Spiegel, J.G. (2009). Financial Management, 3<sup>rd</sup> Edition, Schaum's Outlines Graw-Hill Education.
3. Pandey, I.M (2018). Financial Management, 11th Edition, Vikas Publishers.

## **B.Sc.-M. Sc. Economics Integrated (Five Year)**

First Year Semester-II

Title of the Paper: **Computer Application in Economics-I**

Paper No. **BEC-11**

Total Credits: 4

### **Course Outcomes:**

1. Acquire the basic knowledge of Computer and its parts.
2. Illustrate the Computer Tools and the facilities available
3. Make the students aware of the basics of Internet since it has become the significant part of life
4. Make the students more able to handle real data with confidence by applying econometric methods of analysis to new circumstances and to develop the skills of using more scientific tools based on computers for economic analysis.

### **Unit-I Basics of Computer and Text Processing (15 Periods)**

- 1.1 Computer Systems: characteristics of a computer, components of a computer system –CPU, memory, storage devices and I/O devices
- 1.2 Note Pad and Word Pad: Basic Usage - Create and save a document. Edit and format.
- 1.3 Word processor: Create and save a document. Edit and format text: text style (B.I.U.), font type, font size, text colour, alignment of text. Format paragraphs with line and/or paragraph spacing. Add headers and footers, numbering pages, grammar and spell check utilities, subscript and superscript, insert symbols, use print preview, and print a document
- 1.4 Insert pictures, change the page setting, add bullets and numbering, borders and shading, and insert tables – insert/delete rows and columns, merge and split cells. Use auto-format, track changes, use of drawing tools, shapes and mathematical symbols.

### **Unit-II Office tools: Text Processing and Spread sheet Software (15 Periods)**

- 2.1 Presentation tool: understand the concept of slide shows, basic elements of a slide, different types of slide layouts create and save a presentation, and learn about the different views of a slide set – normal view, slide sorter view and hand-outs.
- 2.2 Edit and format a slide: add titles, subtitles, text, background, and watermark, headers and footers, and slide numbers. Insert pictures from files, create animations, add sound effects, and rehearse timings
- 2.3 Spread sheets: concept of a worksheet and a workbook, create and save a worksheet. Working with a spread sheet: enter numbers, text, date/time, series using auto fill.
- 2.4 Edit and format a worksheet including changing the colour, size, font, alignment of text; insert and delete cells, rows and columns. Enter a formula using the operators (+, -, \*, /), refer to cells, and print a worksheet. Use simple statistical functions: SUM (), AVERAGE (), MAX (), MIN (), IF () (without compound statements);

**Unit-III Internet Basics** (15 Periods)

- 3.1 Definition, History and Evolution of the Internet Computer network
- 3.2 WWW, web server, client, website, browser,
- 3.3 ISP, Ways to Connect to Internet
- 3.4 How to host a website on internet

**Unit-IV Computer Application in Descriptive Statistics** (15 Periods)

- 4.1 Central Tendency: Meaning, concept and objectives
- 4.2 Measures of Central Tendency: Arithmetic Mean, Median, Mode, Geometric Mean and Harmonic Mean
- 4.3 Measures of Dispersion: Range, Quartile Deviation, Mean Deviation
- 4.4 Standard Deviation and Coefficient of Variation

**References/Reading List**

1. Dhanasekaran. K (2013) Computer applications in Economics, Vrinda Publications Pvt. Ltd.
2. Elhance, D. N. (1962), Fundamentals of Statistics, KitabMahal, Allahabad.
3. Gupta, S. C. (1981), Fundamentals of Statistics, Himalaya Publishing House, Bombay.
4. N. M. Downie and R. W. Heath (1970), Basic Statistical Methods, Harper and Row, New York.
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6. Sanders, D. H. (1988), Computer Today, McGraw Hill, New York.
7. Sinha, P. K. (1992), Computer Fundamentals, BPB Publications, New Delhi.
8. Yamane, Taro (1973), Statistics, An Introductory Analysis, Harper and Row (India) and John Weather hill Inc., Tokyo.

## B.Sc.-M. Sc. Economics Integrated (Five Year)

First Year Semester-II

Title of the Paper:- **German Language**

Paper No. **BEC-12**

Total Credits: 4

### Course Outcomes:

1. Regarding Reading skills : The students will understand simple greeting cards, E-Mails, invitations, announcements.
2. Regarding listening skills : The students are in a position to understand short everyday and especially tourist related information.(e.g. at the railway station/airport, hotel booking, in a restaurant, in the market etc.)
3. Regarding speaking skills : The students can reproduce the phonetic and intonation pattern correctly. In the day today situations the students are able to lead a dialog.
4. Regarding writing skills : The students are able to fill in easy forms, write greeting cards, invitations and short personal announcements.
5. The students will acquire the knowledge of **“Basic Language Use”** and will possess basic functional ability to communicate and exchange information in a simple way.

<b>Unit-I</b>	<b>German History, Culture and Alphabets</b>	(15 Periods)
	1.1 A short history, geography and cultural aspects of Germany	
	1.2 Saying hello and greeting people at different times of a day	
	1.3 Alphabets and their pronunciation	
	1.4 The personal pronouns : ich, du, Sie	
<b>Unit-II</b>	<b>Nouns and Verb Conjugation</b>	(15 Periods)
	2.1 Introduction of pronouns	
	2.2 To introduce oneself	
	2.3 Conjugation of verbs which frequently occur	
	2.4 Gender of nouns and its plural forms	
<b>Unit-III</b>	<b>Articles and Vocabulary</b>	(15 Periods)
	3.1 Exchanging information about country of origin and place of residence, professions, telephone number	
	3.2 Introducing the names of days	
	3.3 Introducing the names of months	
	3.4 Definite and indefinite articles	
<b>Unit-IV</b>	<b>Numbers, Watch Timing and General Vocabulary</b>	(15 Periods)
	4.1 Introducing greetings for saying goodbye in formal and informal relations	
	4.2 numbers	
	4.3 Watch timings	
	4.4 German words for hobbies and professions	

### References/Reading List

1. Studio d A 1 Publisher: Goyal Publishers and Distributors, Delhi.
2. Netzwerk A 1 Publisher: Klett Publishers Goyal Publishers and Distributors, Delhi.
3. Team Deutsch 1/1 Publisher: Klett Publishers Goyal Publishers and Distributors, Delhi.

**Shivaji University, Kolhapur-416004**  
**Department of Economics**  
**Admission 2022-2023**  
**B.Sc.-M.Sc. Economics Integrated (Five Years) Programme**  
**Syllabus of Entrance Examination**

**About Entrance Examination**

Candidates seeking admission to the B.Sc.-M.Sc. Economics Integrated (Five Years) programme shall be required to appear for Shivaji University Entrance Examination of B.Sc.-M.Sc. Economics Integrated (Five Years) 2022. The pattern of the entrance exam is as follows:

- The entrance examination will consist of 50 objective-type questions.
- Each question will carry **TWO** marks. The maximum score point is 100 marks.
- The medium of the Entrance Examination is “English”.
- The time duration of the entrance examination will be 90 minutes.

**Components for Entrance Examination**

The Entrance Examination will comprise the following components:

**Section A: (70 Marks)**

**Economics Mathematics & Statistics**

Basic concepts in economics, mathematics and statistics will be covered up to the 12<sup>th</sup> standard of the CBSE and State Board (HSC) syllabus.

**Economics**

Basic Concepts in Economics, Money, Unemployment, Poverty, Economic Planning in India, Utility Analysis, Demand Analysis, Supply Analysis, Forms of Market, National Income.

**Mathematics & Statistics**

Number System: Natural numbers, integers, rational numbers, and irrational numbers, imaginary numbers, Representation on the number line, Properties of real numbers, Definition of  $n$ th root of a real number, complex roots.

Surds: Definition, Forms, Operations, Laws, Rationalisation.

Sets: Types of sets, Subset, - Proper, Improper subset, Super-set, Universal set, Venn diagrams, Operations on sets.

Arithmetic: Profit and loss, discounts, Compound interest, Time, work, distance, Ratio and Proportion, Variation, LCM, HCF.

Algebra: Basic Algebraic Identities, Equations - Linear & Quadratic sequence, Series (AP, GP, HP.), Arithmetic mean, and geometric mean.

Probability: Basic Terminologies, Concept of probability, Addition Theorem, Conditional probability, Multiplication Theorem.

Basic statistics and graphs: Mean, median and mode of grouped data, Histograms, frequency polygon, frequency curve, pie diagram, Ogives (Cumulative frequency graphs), Cartesian coordinate system, Understanding of graphs of lines parallel to axes, Graph of line  $ax + by + c = 0$ .

**Section B: (30 Marks)**

**English, Aptitude, General Knowledge, and Current Affairs**

English:

- Reading comprehension
- Vocabulary
- Applied grammar
- Sequencing of ideas

Aptitude,

General Knowledge and

Current Affairs



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शिवाजी विद्यापीठ, कोल्हापूर — ४१६००४.

दुरध्वनी (ईपीएबीएक्स) २६०९०००० अभ्यास मंडळे विभाग — २६०९०९४

'A++' Accredited by NACC (2021) फॅक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३. e-mail: bos@unishivaji.ac.in  
with CGPA 3.52

जा.क्र./शिवाजी वि./अ.मं./अर्थशास्त्र/

प्रति,

मा. अधिविभाग प्रमुख,  
अर्थशास्त्र अधिविभाग,  
शिवाजी विद्यापीठ,  
कोल्हापूर

दि. 06 JUL 2022  
No 00147

विषय : B. Sc.- M. Sc. Economics Integrated (Five year) या कोर्सच्या  
सुधारीत प्रवेश पात्रता व प्रवेश परीक्षेच्या अभ्यासक्रमाबाबत...

संदर्भ : आपले दि.०२/०७/२०२२ रोजीचे पत्र.

महोदय,

उपरोक्त विषयासंदर्भात आपणास आदेशान्वये कळविण्यात येते की, अर्थशास्त्र  
अधिविभागामध्ये शैक्षणिक वर्ष २०२२—२३ पासून नव्याने सुरु करण्यात आलेल्या  
B. Sc.-M. Sc. Economics Integrated (Five year) या कोर्सच्या सुधारीत प्रवेश पात्रता  
व प्रवेश परीक्षेच्या अभ्यासक्रमास मान्यता देण्यात आलेली आहे. तरी याबाबत पुढील  
योग्यती कार्यवाही करण्यात यावी.

कळावे,

आपला विश्वासू,

उपकुलसचिव

प्रत : १. संचालक, परीक्षा व मुल्यमापन मंडळ कार्यालयास.

२. पी.जी. प्रवेश विभागास.

३. पात्रता विभागास.

माहितीसाठी व पुढील कार्यवाहीसाठी.