



KARNATAK UNIVERSITY, DHARWAD
ACADEMIC (S&T) SECTION
ಕರ್ನಾಟಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಧಾರವಾಡ
ವಿದ್ಯಾಮಂಡಳ (ಎಸ್&ಟಿ) ವಿಭಾಗ



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NAAC Accredited
'A' Grade 2014

website: kud.ac.in

No.KU/Aca(S&T)/RPH-394A/2021-22/1155

Date: 29 OCT 2021

ಅಧಿಸೂಚನೆ

ವಿಷಯ: 2021-22ನೇ ಶೈಕ್ಷಣಿಕ ಸಾಲಿನಿಂದ ಎಲ್ಲ ಸ್ನಾತಕ ಕೋರ್ಸುಗಳಿಗೆ 1 ಮತ್ತು 2ನೇ ಸೆಮಿಸ್ಟರ್
NEP-2020 ಮಾದರಿಯ ಪಠ್ಯಕ್ರಮವನ್ನು ಅಳವಡಿಸಿರುವ ಕುರಿತು.

- ಉಲ್ಲೇಖ: 1. ಸರ್ಕಾರದ ಅಧೀನ ಕಾರ್ಯದರ್ಶಿಗಳು(ವಿಶ್ವವಿದ್ಯಾಲಯ 1) ಉನ್ನತ ಶಿಕ್ಷಣ ಇಲಾಖೆ ಇವರ ಆದೇಶ
ಸಂಖ್ಯೆ: ಇಡಿ 260 ಯುಎನ್ಇ 2019(ಭಾಗ-1), ದಿ:7.8.2021.
2. ವಿಶೇಷ ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ ಸಭೆಯ ನಿರ್ಣಯ ದಿನಾಂಕ: 19.08.2021
3. ಈ ಕಚೇರಿ ಸುತ್ತೋಲೆ ಸಂ.No. KU/Aca(S&T)/RPH-394A/2021-22/18 ದಿ:21.08.2021.
4. ಸರ್ಕಾರಿ ಆದೇಶ ಸಂ ಇಡಿ 260 ಯುಎನ್ಇ 2019(ಭಾಗ-1),ಬೆಂಗಳೂರು ದಿ. 15.9.2021.
5. ಎಲ್ಲ ಅಭ್ಯಾಸಸೂಚಿ ಮಂಡಳಿ ಸಭೆಗಳ ನಡವಳಿಗಳು
6. ಎಲ್ಲ ನಿಖಾಯಗಳ ಸಭೆಗಳು ಜರುಗಿದ ದಿನಾಂಕ: 24,25-09-2021.
7. ವಿಶೇಷ ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ ಸಭೆಯ ನಿರ್ಣಯ ಸಂಖ್ಯೆ: 01 ದಿನಾಂಕ: 28.9.2021.
8. ಈ ಕಚೇರಿ ಸುತ್ತೋಲೆ ಸಂ.No. KU/Aca(S&T)/RPH-394A/2021-22/954 ದಿ:30.09.2021.
9. ಎಲ್ಲ ನಿಖಾಯದ ಡೀನರು / ಸಂಪನ್ಮೂಲ ತಜ್ಞರ ಸಭೆ ದಿನಾಂಕ 21.10.2021.
10. ಎಲ್ಲ ಸ್ನಾತಕ ಅಭ್ಯಾಸಸೂಚಿ ಮಂಡಳಿ ಅಧ್ಯಕ್ಷರುಗಳ ಸಭೆ ದಿನಾಂಕ 22.10.2021.
11. ವಿಶೇಷ ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ ಸಭೆಯ ನಿರ್ಣಯ ಸಂಖ್ಯೆ: 01 ದಿನಾಂಕ: 27.10.2021.
12. ಮಾನ್ಯ ಕುಲಪತಿಗಳ ಆದೇಶ ದಿನಾಂಕ: 29-10-2021

ಮೇಲ್ಕಾಣಿಸಿದ ವಿಷಯ ಹಾಗೂ ಉಲ್ಲೇಖಗಳನ್ವಯ ಮಾನ್ಯ ಕುಲಪತಿಗಳ ಆದೇಶದ ಮೇರೆಗೆ, 2021-22ನೇ
ಶೈಕ್ಷಣಿಕ ಸಾಲಿನಿಂದ ಅನ್ವಯವಾಗುವಂತೆ, ಎಲ್ಲ B.A./ BPA (Music)/BVA/ BTM/ BSW/ B.Sc./B.Sc. Pulp & Paper
Science/ B.Sc. (H.M)/ BCA/ B.A.S.L.P./ B.Com/ B.Com (CS)/ & BBA ಸ್ನಾತಕ ಕೋರ್ಸುಗಳ 1 ಮತ್ತು 2ನೇ
ಸೆಮಿಸ್ಟರ್‌ಗಳಿಗೆ NEP-2020 ರಂತೆ ವಿಶೇಷ ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ ಸಭೆಯ ಅನುಮೋದಿತ ಪಠ್ಯಕ್ರಮಗಳನ್ನು ಈಗಾಗಲೇ
ಪ್ರಕಟಪಡಿಸಿದ್ದು, ಮುಂದೆ ದಿನಾಂಕ 04.10.2021 ವರೆಗೆ ಸರ್ಕಾರವು ಕಾಲಕಾಲಕ್ಕೆ ನೀಡಿದ ನಿರ್ದೇಶನಗಳನ್ನು ಅಳವಡಿಸಿಕೊಂಡು
ದಿನಾಂಕ 27.10.2021 ರಂದು ಜರುಗಿದ ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ ಸಭೆಯಲ್ಲಿ ಅನುಮೋದನೆ ಪಡೆದು ಕ.ವಿ.ವಿ. ಅಂತರ್ಜಾಲ
www.kud.ac.in ದಲ್ಲಿ ಭಿತ್ತರಿಸಲಾಗಿದೆ. ಸದರ ಪಠ್ಯಕ್ರಮಗಳನ್ನು ಕ.ವಿ.ವಿ. ಅಂತರ್ಜಾಲದಿಂದ ಡೌನ್‌ಲೋಡ್ ಮಾಡಿಕೊಳ್ಳಲು
ಸೂಚಿಸುತ್ತ ವಿದ್ಯಾರ್ಥಿಗಳ ಹಾಗೂ ಸಂಬಂಧಿಸಿದ ಎಲ್ಲ ಬೋಧಕರ ಗಮನಕ್ಕೆ ತಂದು ಅದರಂತೆ ಕಾರ್ಯಪ್ರವೃತ್ತರಾಗಲು ಕವಿವಿ
ಅಧೀನದ/ಸಂಲಗ್ನ ಮಹಾವಿದ್ಯಾಲಯಗಳ ಪ್ರಾಚಾರ್ಯರುಗಳಿಗೆ ಸೂಚಿಸಲಾಗಿದೆ.

ಅಡಕ: ಮೇಲಿನಂತೆ
ಗೆ,

ಕರ್ನಾಟಕ ವಿಶ್ವವಿದ್ಯಾಲಯದ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಬರುವ ಎಲ್ಲ ಅಧೀನ ಹಾಗೂ ಸಂಲಗ್ನ ಮಹಾವಿದ್ಯಾಲಯಗಳ
ಪ್ರಾಚಾರ್ಯರುಗಳಿಗೆ. (ಕ.ವಿ.ವಿ. ಅಂತರ್ಜಾಲ ಹಾಗೂ ಮಿಂಚಂಚೆ ಮೂಲಕ ಭಿತ್ತರಿಸಲಾಗುವುದು)

ಪ್ರತಿ:

1. ಕುಲಪತಿಗಳ ಆಪ್ತ ಕಾರ್ಯದರ್ಶಿಗಳು, ಕ.ವಿ.ವಿ. ಧಾರವಾಡ.
2. ಕುಲಸಚಿವರ ಆಪ್ತ ಕಾರ್ಯದರ್ಶಿಗಳು, ಕ.ವಿ.ವಿ. ಧಾರವಾಡ.
3. ಕುಲಸಚಿವರು (ಮೌಲ್ಯಮಾಪನ) ಆಪ್ತ ಕಾರ್ಯದರ್ಶಿಗಳು, ಕ.ವಿ.ವಿ. ಧಾರವಾಡ.
4. ಅಧೀಕ್ಷಕರು, ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆ / ಗೌಪ್ಯ / ಜಿ.ಎ.ಡಿ. / ವಿದ್ಯಾಮಂಡಳ (ಪಿ.ಜಿ.ಪಿ.ಎಚ್.ಡಿ) ವಿಭಾಗ, ಸಂಬಂಧಿಸಿದ
ಕೋರ್ಸುಗಳ ವಿಭಾಗಗಳು ಪರೀಕ್ಷಾ ವಿಭಾಗ, ಕ.ವಿ.ವಿ. ಧಾರವಾಡ.
5. ನಿರ್ದೇಶಕರು, ಕಾಲೇಜು ಅಭಿವೃದ್ಧಿ / ವಿದ್ಯಾರ್ಥಿ ಕಲ್ಯಾಣ ವಿಭಾಗ, ಕ.ವಿ.ವಿ. ಧಾರವಾಡ.

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ಕುಲಸಚಿವರು.



KARNATAK UNIVERSITY, DHARWAD

03 - Year B.Sc. (Basic Degree) Program

SYLLABUS

Subject: ECONOMICS (Minor)

[Effective from 2021-22]

DISCIPLINE SPECIFIC CORE COURSE (DSCC) FOR SEM I & II,

OPEN ELECTIVE COURSE (OEC) FOR SEM I & II and

SKILL ENHANCEMENT COURSE (SEC) FOR SEM I

AS PER N E P - 2020

Karnatak University, Dharwad
Three Years Under Graduate Program in ECONOMICS (Minor)
for B.Sc. (Basic Degree)

Effective from 2021-22

Sem	Type of Course	Theory/ Practical	Instruction hour per week	Total hours of Syllabus / Sem	Duration of Exam	Formative Assessment Marks	Summative Assessment Marks	Total Marks	Credits
I	DSCC 1 -P-I	Theory	03 hrs	42	02 hrs	40	60	100	03
	DSCC1 -P-II	Theory	03 hrs	42	02 hrs	40	60	100	03
	OEC-1	Theory	03 hrs	42	02 hrs	40	60	100	03
	*SEC-1	Practical	03 hrs	30	01 hr	20	30	50	02
II	DSCC2-P-I	Theory	03 hrs	42	02 hrs	40	60	100	03
	DSCC2-P-II	Theory	03 hrs	42	02 hrs	40	60	100	03
	OEC-2	Theory	03 hrs	42	02 hrs	40	60	100	03
Details of the other Semesters will be given later									

* Student can opt digital fluency as SEC or the SEC of his/ her any one DSCC selected

Name of Course (Subject): ECONOMICS (Minor)

Programme Specific Outcome(PSO):

On completion of the 03/ 04 years Degree in ECONOMICS (Minor) students will be able to:

- PSO- 1** Get an understanding of basic economic theory
- PSO-2** Learn the mathematical and statistical techniques necessary for a proper understanding of the discipline
- PSO-3** Get an introduction to real world economic issues and problems facing the country and the world
- PSO-4** Gain an understanding of proper policy responses to economic problems
- PSO-5** Get trained to collect primary data and learn sampling techniques
- PSO-6** Learn to use scientific empirical methods to arrive at conclusions about the validity of economic theories
- PSO-7** Get trained in the art of economic modeling

B.SC. Semester – I

Subject: Economics (Minor)
Discipline Specific Course (DSC)

The course Economics (Minor) in I semester has two papers (Paper I & II) for 06 credits: Each paper has 03 credits. Both the papers are compulsory. Details of the courses are as under.

Course No.-1 (Paper No. I)

Course No.	Type of Course	Theory / Practical	Credits	Instruction hour per week	Total No. of Lectures/Hours / Semester	Duration of Exam	Formative Assessment Marks	Summative Assessment Marks	Total Marks
Course-01	DSCC	Theory	03	03	42 hrs	2hrs	40	60	100

Course No.1 (Paper-I): Title of the Course (Paper-I) : **Microeconomics**

Course Outcome (CO):

After completion of course (No.1), students will be able to:

- CO 1 Analyse the economic behaviour of the consumer and the firm
- CO 2 Explain the relationship between various variables such as Input and output, cost and output, price of the product and quantity demand and so on
- CO 3 Product and Factor pricing under different market structure

Syllabus- Course 1: Title- Microeconomics		Total Hrs: 42
Unit – 1 : Introduction to Economics, Demand and Supply		14
Chapter-1	Introduction to Economics: Nature and scope of economics, Basic Concepts in economics, Importance of study of Economics, Understanding the economy, Mankiw's ten principles of economics	7
Chapter- 2	Demand: Meaning and Determinants of Demand, the Demand Schedule, The Law of Demand, Exceptions to the Law of Demand, Elasticity of Demand: Meaning- Types: Price, Income and Cross Elasticity, Measurement of Elasticity of Demand	6
Chapter- 3	Supply: Concept of Supply, the Law of Supply, and Determinants of Supply.	1
Unit – 2 Theory of Consumer Behaviour and Production function --		14
Chapter-4	Cardinal Analysis: Utility: Law of diminishing marginal utility, equi-marginal utility, consumer's equilibrium, Consumer surplus and its application	3

Chapter-5	Ordinal analysis: Meaning of Indifference curves- Indifference Schedule- Indifference Map, properties of Indifference curves, Budget line-Equilibrium position, Income, Price and substitution effects -inferior goods v/s Giffen goods, Samuelson's revealed preference theory	6
Chapter-6	Production Function Production Function - The Law of Variable Proportion – the Law of Returns to Scale- Least cost combination of Inputs	5
Unit – 3: Cost, Revenue, Price and Output determination under different Markets		14
Chapter- 7	Cost Concepts: Cost output relationship in the short-run and long run	4
Chapter -8	Concepts of Revenue: Total, Average and Marginal Revenue Curve	1
Chapter- 9	Price and Output determination under different market: Meaning and features of perfect competitive market, Monopoly, Monopolistic competition and oligopoly, Price and Output determination under these markets	9

Books recommended

Text Books

Ahuja H.L (2017) Advanced Economic Theory, S. Chand and Company, New Delhi. Koutsoyiannis A, (2008) Modern Microeconomics, Macmillan, London.

References

1. Dominick Salvatore (2002) Theory and Problems of Microeconomic Theory, Schaum's Outline Series, McGraw-Hill Book Company, Singapore.
2. Ferguson C.E and Maurice S. Charles, (1978) Economic Analysis-Theory and Applications, Richard D. Irwin Inc. USA.
3. Hubbard R. Glenn and Anthony Patrick O'Brien, (2016) Microeconomics, Pearson Prentice Hall, New Jersey.
4. Pindyck Robert S., and Daniel L. Rubinfeld, (2012) Microeconomics, Pearson Prentice Hall, New Jersey.
5. Varian, H. R., "Intermediate Microeconomics: A Modern Approach", W. W. Norton and Company, 8th Edition, 2010

B.SC. Semester – I

**Subject: Economics (Minor)
Discipline Specific Course (DSC)**

Course No.-2 (Paper No. II)

Course No.	Type of Course	Theory / Practical	Credits	Instruction hour per week	Total No. of Lectures/Hours / Semester	Duration of Exam	Formative Assessment Marks	Summative Assessment Marks	Total Marks
Course-02	DSCC	Theory	03	03	42 hrs	2hrs	40	60	100

Course No.2 (Paper-II): Title of the Course (Paper-II) : **Indian Economy**

Course Outcome (CO):

After completion of course (No.2), students will be able to:

- CO 1 Understand the current problems of Indian Economy
- CO 2 Identify the factors contributing to the recent growth of the Indian economy
- CO 3 Understand the structural changes taking place in Indian Economy
- CO 4 Analyze the sector specific policies adopted for achieving the aspirational goals
- CO 5 Review various economic policies adopted

Syllabus- Course 2: Title- Indian Economy -I		42 Hrs	
Unit – 1	Structural Changes in Indian Economy	---- 14 Hrs	
	Chapter 1	<i>Structural Changes in Indian Economy</i>	5 hrs
		Meaning of Qualitative and Quantitative Changes	
		Estimation of <i>National Income of India</i> :	
		Growth and Trends in National Income of India	
		Composition of NI of India	
		Limitations of measurement of NI	
	Chapter 2	Broad Trends in Population	2 hrs
		Trends in Occupational Distribution of Population	
		Trends in growth of population	
	Chapter 3	Fiscal Trends	3 hrs
		Trends in Tax-GDP ratio	
		Trends in Public Expenditure-GDP ratio	
		Fiscal deficit: Meaning and Trends	
	Chapter 4	Broad Trends in External Sector	2Hrs
		Balance of payments : Meaning and Trends	
		Current account and Capital account: Meaning and Trends	
	Chapter 5	Price Trends	2 Hrs
		Meaning of Inflation, WPI and CPI	

		Trends in Consumer Price Index (CPI) and Wholesale Price Index (WPI)	
<p>Practicum:</p> <p>1. Collect data from the RBI website regarding 'Sectoral composition of GDP at Basic Price' by clicking here Components of Gross Domestic Product at Factor Cost/ Gross Value Added at Basic Price . In the page that would open, click on 'Sectoral Growth of GDP/GVA'. Using the ' ' icon export the excel file.</p> <p style="text-align: center;">OR</p> <p>Click here: and then open "NATIONAL INCOME, SAVING AND EMPLOYMENT".</p> <p>1. Then open serial no. 3 - "Components of Gross Domestic Product at Factor Cost/ Gross Value Added at Basic Price". Now in the page that opens, click on 'Sectoral Growth of GDP/GVA'. Using the ' ' icon export the excel file.</p> <p>2. Prepare charts through spreadsheet software to compare the contribution of different economic activities like agriculture, manufacturing etc. and observe which sector is contributing more to GDP.</p> <p>3. Do you observe structural change in sectors over the period of time? Analyze.</p>			
Unit – 2	Demographic Profile, Poverty and Unemployment		--- 14 hrs
	Chapter 6	Broad Demographic Features	5 hrs
		Demography: Meaning	
		Trends in composition (Age, Sex, Rural-Urban, Literacy) of Population	
		Trends in density	
		Recent Census	
		Concept of demographic dividend	
		Communicable diseases (Covid-19) and their impact on economy	
	Chapter 7	Unemployment	3 Hrs
		Meaning of Labor Force, Work Force, and Unemployment	
		Types of unemployment and Extent	
	Chapter 8	Poverty	4 hrs
		Meaning, Concept of poverty line	
		Measurement and Extent	
		Effects and Measures to tackle poverty (recent schemes of government to be included)	
	Chapter 9	Inequality	2hrs
		Meaning and Extent	
<p>Practicum:</p> <p>1. Group Discussion: Demographic dividend in the context of rising unemployment and Skill India</p> <p>2. Assignment: Effect of Covid-19 on Indian Economy</p>			
Unit:3	Agriculture in India		-----14 Hrs
	Chapter- 10	Classification of Agriculture and allied activities in	5hrs

		System of National Accounts (SNA);	
		Land use and cropping pattern in India	
		Trends in agricultural production	
		Causes of low productivity	
	Chapter-11	Agricultural finance	2 hrs
		Sources of Agricultural Finance	
	Chapter 12	Agricultural marketing : Features, Defects and Reforms	4hrs
		Agricultural price policy and Minimum support price	
	Chapter 13	Agrarian Crisis	3hrs
		Agrarian Reforms: recent schemes of government	
<p>Practicum:</p> <ol style="list-style-type: none"> Step 1. Collect the data on Agricultural Holdings by clicking here. OR copy and paste this link https://agcensus.dacnet.nic.in/NL/natt1table2.aspx Step 2. Save the file to spreadsheet. Step 3. Now with the spreadsheet knowledge, prepare charts to analyse the share of different size of land holdings in number and area. <ol style="list-style-type: none"> Assignment: Defects and Reforms in Agricultural Marketing 			

Books recommended:

- Dutt Ruddar and K.P.M Sundaram: Indian Economy, S Chand & Co. Ltd. New Delhi. Recent Edition
- Mishra S.K & V.K Puri (2001) "Indian Economy and –Its development experience", Himalaya Publishing House.
- Kapila Uma: Indian Economy: Policies and Performances, Academic Foundation
- Bardhan, P.K. (9th Edition) (1999), The Political Economy of Development in India, Oxford University Press, New Delhi.
- Jalan, B. (1996), India's Economic Policy- Preparing for the Twenty First Century, Viking, New Delhi
- Ramesh Singh. Indian Economy, McGraw Hill Education, New Delhi
- Ahluwalia and Little (ed): India's Economic Reforms and Development, OUP
- K. James, (2008), –Glorifying Malthus: Current Debate on Demographic Dividend in India Economic and Political Weekly, June
- Kaushik Basu and A. Maertens, Eds, (2013), The New Oxford Companion to Economics, Oxford University Press.
- Himanshu, (2010), Towards New Poverty Lines for India, Economic and Political Weekly, January,2
- Economic and Political Weekly- 25 Years of Economic Reforms, Various articles, March 4, 2017

Websites:

- For size of Indian economy based on PPP basis (2017)
http://www.mospi.gov.in/sites/default/files/press_release/Press%20Release%20for%20ICP%202017.pdf

2. For Consumer Price Index number:
http://www.mospi.gov.in/sites/default/files/press_release/Press%20Release%20for%20ICP%202017.pdf
 3. For data on GDP and National Income of India: <http://mospi.nic.in/data>
 4. For compiled data till year 2015 on each and every aspect of Indian economy :
<http://mospi.nic.in/statistical-year-book-india/2015>
 5. HANDBOOK OF STATISTICS ON INDIAN ECONOMY :
<https://www.rbi.org.in/scripts/AnnualPublications.aspx?head=Handbook%20of%20Statistics%20on%20Indian%20Economy>
 6. Economic Survey of India various issues: <https://www.indiabudget.gov.in/economicsurvey/>
 7. Indian Union Budget : <https://www.indiabudget.gov.in/>
 8. Data bases relevant to understand Indian Economy : <https://niti.gov.in/content/national-statistics>
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B.SC. Semester – I

Subject: Economics (Minor)
Open Elective Course (OEC-1)
(OEC for other students)

Course No.	Type of Course	Theory / Practical	Credits	Instruction hour per week	Total No. of Lectures/Hours / Semester	Duration of Exam	Formative Assessment Marks	Summative Assessment Marks	Total Marks
OEC-1	OEC	Theory	03	03	42 hrs	2hrs	40	60	100

OEC-1: Title of the Course : **Contemporary Indian Economy**

Course Outcome (CO):

After completion of course, students will be able to:

- CO 1 Trace the evolution of Indian Economy
- CO 2 : Identify the structural features and constraints of Indian Economy
- CO 3 : Analyze the sector specific problems and contributions towards overall economic growth
- CO 4 : Understand the challenges faced by Indian Economy
- CO 5 : Policy responses to the various challenges faced by Indian economy

Syllabus- OEC: Title- Contemporary Indian Economy		42 Hrs
Unit – 1	India as Emerging Economic Giant	---- 14 Hrs
	Chapter 1	<i>India's Growth Story</i>
		a) Concepts of GDP, GNP/GNI, GVA, NDP, NNP, NI and Per-Capita Income; Current and Constant Prices.
		b) Trends in size and growth of National Income
		c) India: Fastest growing nation: Reasons
		d) Reasons for initial slow growth
		e) Recent slowdown: Reasons
	Chapter 2	<i>Whither India's Development</i>
		India's position in development: measured through
		a) Gross National Income(GNI)
		b) Per-capita Income (PCI)
		c) Human Development Index (HDI)
		d) Sustainable Development Goals (SDGs)
		<i>Note: India's position should be compared with some developed, developing and its neighboring countries</i>
	Chapter 3	<i>Investment Destination, that is, India!</i>
	a) Concept of FDI and FII	

		b) FDI and FII inflows in India	
		c) Growth of MNCs in India	
		d) Ease of Doing Business	
		e) Make in India	
Practicum : 1) Debate: Is India an Emerging Economy? 2) Assignment: Growth of MNCs			
Unit – 2	Challenges of Indian Economy		----- 14 hrs
	Chapter 4	Population	5 hrs
		a) Recent Census: features	
		b) Size and Growth of population in India : Trends and Comparison	
		c) Theory of demographic transition as applied to India	
		d) Demographic Dividend; Effect of rapid growth of population	
		e) Communicable diseases(Covid-19) and their impact on economy	
	Chapter 5	Unemployment	4 Hrs
		Meaning of	
		a) Labor Force	
		b) Work Force	
		c) Unemployment	
		a) Types of unemployment	
		b) Measurement concepts	
		c) Extent	
	Chapter 6	Poverty	5 hrs
		a) Meaning of poverty	
		b) Concept of poverty line	
		c) Measurement of poverty line: Consumption Expenditure and Calorie intake	
		d) Estimate of poverty line:	
		i) World Bank Estimate	
		ii) Recent estimate by planning commission	
		iii) Suresh Tendulkar Committee Estimate	
		iv) C Rangarajan committee Estimate	
		v) Earlier Estimates	
		e) Causes, Effects and Measures to tackle poverty (recent schemes of government to be included)	
Practicum:			
1) Group discussion: Has poverty reduced? What are the ways to reduce poverty? Suggest your measures			
2) Assignment: Measurement of Unemployment OR Assess the impact of Covid-19 on Indian Economy			
Unit:3	Macroeconomic Indicators- Pulse of Indian Economy		----14 Hrs

	Chapter-7	Prices	5hrs
		a) Inflation: Meaning	
		b) Types: Core Inflation, Headline Inflation, Hyper Inflation, Stagflation, Built-in Inflation, Demand Pull and Cost push inflation, Mild or Healthy Inflation	
		c) Wholesale Price Index: Composition and trends	
		d) Consumer Price Index: composition and trends	
	Chapter-8	Fiscal Indicators	3 hrs
		a) Fiscal deficit : Meaning	
		b) Trends in Fiscal deficit	
		c) FRBM act	
		d) Effects of rise in Fiscal Deficit	
	Chapter -9	External Sector indicators	6 hrs
		a) Meaning : Exports, Imports and Trade Balance	
		b) Volume of Exports and Imports	
c) Composition of Foreign Trade			
d) Direction of Foreign Trade			
e) Meaning: Current Account, Capital Account and Balance of Payments (BoP),			
f) Trends: BoP and Current Account			
g) Exchange Rate: Meaning			
Practicum : 1) Seminar: Analyse the Trends in CPI and suggest measures to control inflation 2) Assignment: Composition and Direction of foreign trade			

Books recommended:

1. Dutt Ruddar and K.P.M Sundaram: Indian Economy, S Chand & Co. Ltd. New Delhi. Recent Edition
2. Mishra S.K & V.K Puri (2001) "Indian Economy and –Its development experience", Himalaya Publishing House.
3. Kapila Uma: Indian Economy: Policies and Performances, Academic Foundation
4. Bardhan, P.K. (9th Edition) (1999), The Political Economy of Development in India, Oxford University Press, New Delhi.
5. Jalan, B. (1996), India's Economic Policy- Preparing for the Twenty First Century, Viking, New Delhi
6. Ramesh Singh. Indian Economy, McGraw Hill Education, New Delhi
7. Ahluwalia and Little (ed): India's Economic Reforms and Development, OUP
8. K. James,(2008), —Glorifying Malthus: Current Debate on Demographic Dividend in India Economic and Political Weekly, June
9. Kaushik Basu and A. Maertens, Eds,(2013), The New Oxford Companion to Economics, Oxford University Press.
10. Himanshu, (2010), Towards New Poverty Lines for India, Economic and Political Weekly, January,2
11. Economic and Political Weekly- 25 Years of Economic Reforms, Various articles, March 4, 2017

Websites:

1. For size of Indian economy based on PPP basis (2017)
http://www.mospi.gov.in/sites/default/files/press_release/Press%20Release%20for%20ICP%202017.pdf

2. For Consumer Price Index number:
http://www.mospi.gov.in/sites/default/files/press_release/Press%20Release%20for%20ICP%202017.pdf
 3. For data on GDP and National Income of India: <http://mospi.nic.in/data>
 4. For compiled data till year 2015 on each and every aspect of Indian economy : <http://mospi.nic.in/statistical-year-book-india/2015>
 5. HANDBOOK OF STATISTICS ON INDIAN ECONOMY :
<https://www.rbi.org.in/scripts/AnnualPublications.aspx?head=Handbook%20of%20Statistics%20on%20Indian%20Economy>
 6. Economic Survey of India various issues: <https://www.indiabudget.gov.in/economicsurvey/>
 7. Indian Union Budget : <https://www.indiabudget.gov.in/>
 8. Data bases relevant to understand Indian Economy : <https://niti.gov.in/content/national-statistics>
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B.SC. Semester - I

**Subject: Economics (Minor)
SKILL ENHANCEMENT COURSE (SEC)-I**

Title of Paper: Data Analysis and Computer Applications in Economics

Type of Course	Theory / Practical	Credits	Instruction hour per week	Total No. of Lectures/Hours / Semester	Mode of Examination	Duration of Exam	Formative Assessment Marks	Summative Assessment Marks	Total Marks
SEC-I	Theory + Practical	02	03hrs	30	Practical	2 hrs	25	25	50

Course Outcome (CO):

After completion of Skill Enhancement course, students will be able to:

- CO 1** :This course will enlighten the students about elementary computer skills required to represent economic data through computers
- CO 2** :The students would be able to demonstrate basic computer knowledge and word processor to prepare write-up for economic reports
- CO 3** :The students would be able to use spreadsheets in an elementary way to garner basic understanding of the available spreadsheet software.
- CO 4** :The students would demonstrate the use of presentation software so as to present the economic analysis and reports in an effective way

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Syllabus- SEC-1: Title- Data Analysis and Computer Applications in Economics		Total Hrs: 30 (10 Hrs theory + 20 Hrs Practical)
Unit I	Unit I: Introduction to data analysis and word processing	5 (T)+10 (P)hrs
	<p>Data: Meaning and types : Quantitative and Qualitative data</p> <p>Data representation through computers : Text, Numbers and numerical operations and presentation.</p> <p>Text Representation: Word processing software: Word Processing Package, Opening and closing documents, Using a Document/Help Wizard, Text Creation and Manipulation</p> <p>Formatting the Text, Handling Multiple Documents, Table Manipulation, Printing, saving documents in different formats.</p> <p>List of Practicals</p> <p><i>Demonstration of Word processing software:</i></p> <ol style="list-style-type: none"> 1. Create a word processing file; name it; type or copy text regarding importance of computers in economics; Format the text using all the options; Save the file with your name and roll number; 2. Open the file; create a table based on your previous marks card; format text of table with all available options including using bullets. Save the file. 	

	<p>3. Create your resume (bio-data); Upload it to your email. Take a print-out.</p> <p>4. Write a letter addressing to your principal to request a study certificate. Upload it to your email</p> <p>5. Create an ‘Invitation’ regarding holding of inter-collegiate economics-fest in your college. Use the options available in ‘Page layout’ tab and ‘Insert’ tab to decorate your “Invitation”. Upload to your email.</p>	
Unit-II	<p>Unit II: Spreadsheet and Presentation of slides:</p> <hr/> <p>Spreadsheet and Basic Data Analyses Elements of Electronics Spread Sheet, Create Worksheet and Workbooks; Import data from a delimited text file; Search for data within a workbook;</p> <p>Application/usage of Electronic Spread Sheet, Manipulation of cells, Formulas and functions; Charts; Using filter option; Using spreadsheet to represent law of demand and law supply and finding equilibrium price. Representing the results with the use of charts.</p> <p>Basic Presentations Difference between presentation and document, Using Power Point, Creation of Presentation, Preparation of Slides, Selection of type of Slides. Importing text from word documents, Providing aesthetics Slide Designs, Slide Manipulation and Slide Show, Presentation of the Slides.</p> <p>List of Practicals <i>Demonstration of Word processing software:</i></p> <p>6. Create a workbook; Name the first 3 sheets differently; Create atleast 10 data points (observations) for atleast two columns. Format both columns with all available options of cell formatting. Save the workbook with your name and roll-number.</p> <p>7. Prepare a demand and supply schedule given in your economics book. Using the chart option show the equilibrium price and quantity (demanded and supplied).</p> <p>8. Create a presentation file. Create 5 slides; change layouts and slide designs; Make use of default slide designs and observe the changes across all slides. Manipulate slides using various possible animations. Save the file with your name and roll number.</p> <p>9. Open the saved file. Import any picture and text document into two different slides and align them.</p> <p>10. Create another presentation file and name it as “Report_<your name>”. Now import all the text files such as letter, bio-data and “Invitation” that you created under Unit –I practical sessions. Also import the demand and supply chart that you created earlier in Unit-II. Align them. Decorate (design and animate) them. And present them using slide show option.</p>	5 (T)+10 (P)hrs

Books recommended.

1. C.S. French (1998): "Data Processing and Information Technology", BPB Publications

2. P.K Sinha (1992) Computer Fundamentals, BPB Publications,
3. Guy Hart-Davis(1998) "The ABCs of Microsoft Office 97 Professional edition", BPB Publications
4. Karl Schwartz(1998), "Microsoft Windows 98 Training Guide".
5. Wolf Jr., Charles and Enns. John. H (1971) Computers and Economics: Progress, Problems and Prospects. *Can be accessed from*
(<https://www.rand.org/content/dam/rand/pubs/papers/2006/P4724.pdf>)

Course Title: **SEC-1: Title-PRACTICALS**

(based on **Data Analysis and Computer Applications in Economics**)

List of Practicals:

1. Create a word processing file; name it; type or copy text regarding importance of computers in economics; Format the text using all the options; Save the file with your name and roll number;
2. Open the file; create a table based on your previous marks card; format text of table with all available options including using bullets. Save the file.
3. Create your resume (bio-data); Upload it to your email. Take a print-out.
4. Write a letter addressing to your principal to request a study certificate. Upload it to your email
5. Create an 'Invitation' regarding holding of inter-collegiate economics-fest in your college. Use the options available in 'Page layout' tab and 'Insert' tab to decorate your "Invitation". Upload to your email.
6. Create a workbook; Name the first 3 sheets differently; Create atleast 10 data points (observations) for atleast two columns. Format both columns with all available options of cell formatting. Save the workbook with your name and roll-number.
7. Prepare a demand and supply schedule given in your economics book. Using the chart option show the equilibrium price and quantity (demanded and supplied).
8. Create a presentation file. Create 5 slides; change layouts and slide designs; Make use of default slide designs and observe the changes across all slides. Manipulate slides using various possible animations. Save the file with your name and roll number.
9. Open the saved file. Import any picture and text document into two different slides and align them.
10. Create another presentation file and name it as "Report_<your name>". Now import all the text files such as letter, bio-data and "Invitation" that you created under Unit –I practical sessions. Also import the demand and supply chart that you created earlier in Unit-II. Align them. Decorate (design and animate) them. And present them using slide show option.

Scheme of Practical Examination (distribution of marks): 25 marks for Semester end examination

1. Create a word processing file; open the file; create a table; Create your resume (bio-data); Write a letter; Create an 'Invitation' letter. 10-Marks

2. Create a workbook; Create at least 10 data points (observations); Format both columns with all available options of cell formatting. Save the workbook; Prepare a demand and supply schedule; Create a presentation file; Create 5 slides; change layouts and slide designs; 10-marks

3. Journal: 5 Marks

Total 25 marks

Scheme of Formative assessment for SEC (IA) for total 25 marks

Type of Assessment	Weightage	Duration	Commencement
Written test-1	10 marks	1 hr	8 th Week
Written test-2	10 marks	1 hr	12 th Week
Seminar	5 marks	10 minutes	--

Details of Formative assessment (IA) for DSCC/OEC/SEC: 40% weightage for total marks

Type of Assessment	Weightage	Duration	Commencement
Written test-1	10%	1 hr	8 th Week
Written test-2	10%	1 hr	12 th Week
Seminar	10%	10 minutes	--
Case study / Assignment / Field work / Project work/ Activity	10%	-----	--
Total	40% of the maximum marks allotted for the paper		

Details of Formative assessment (IA) for DSCC/OEC/SEC: 40% weightage for total marks

Type of Assessment	Weightage	Duration	Commencement
Written test-1	10%	1 hr	8 th Week
Written test-2	10%	1 hr	12 th Week
Seminar	10%	10 minutes	--
Case study / Assignment / Field work / Project work/ Activity	10%	-----	--
Total	40% of the maximum marks allotted for the paper		

**Faculty of Science
03 - Year UG Basic Degree programme:2021-22**

**GENERAL PATTERN OF THEORY QUESTION PAPER FOR DSCC/ OEC
(60 marks for semester end Examination with 2 hrs duration)**

Part-A

1. Question number 1-06 carries 2 marks each. Answer any 05 questions : 10marks

Part-B

2. Question number 07- 11 carries 05Marks each. Answer any 04 questions : 20 marks

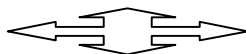
Part-C

3. Question number 12-15 carries 10 Marks each. Answer any 03 questions : 30 marks

(Minimum 1 question from each unit and 10 marks question may have sub questions for 7+3 or 6+4 or 5+5 if necessary)

Total: 60 Marks

Note: Proportionate weight age shall be given to each unit based on number of hours prescribed.



B.SC. Semester – II

Subject: Economics (Minor)

Discipline Specific Course (DSC)

The course Economics (Minor) in II semester has two papers (Paper I & II) for 06 credits: Each paper has 03 credits. Both the papers are compulsory. Details of the courses are as under.

Course No.-3 (Paper No. I)

Course No.	Type of Course	Theory / Practical	Credits	Instruction hour per week	Total No. of Lectures/Hours / Semester	Duration of Exam	Formative Assessment Marks	Summative Assessment Marks	Total Marks
Course-03	DSCC	Theory	03	03	42 hrs	2hrs	40	60	100

Course No.3 (Paper-I): Title of the Course (Paper-I) : **Macro Economics**

Course Outcome (CO):

After completion of course (No.3), students will be able to:

- CO 1 Explain the concept of National Income and methods of its estimation
- CO 2 Analyse the relationship between Macroeconomic variables
- CO 3 Understand the determination of income and employment under Classical and Keynesian framework

Syllabus- Course 3: Title- Macro Economics	Total Hrs: 42
Unit – 1: Introduction to Macroeconomics and National Income accounting	14
Chapter-1: Introduction to Macro Economics: Nature of Macroeconomics and its significance, Indicators of Macro Economic Activity - Key Concepts: Stock and flow variables.	3
Chapter-2 Building blocks of Macroeconomic Analysis: Aggregate Demand (AD) curve, Aggregate Supply (AS) curve, Sources of shift in AD an AS, Equilibrium in National Income and Price level, Unemployment and National Income, Inflation and Unemployment, Circular flow of Income, Goods market and Money Market	6
Chapter-3 National Income Accounting: Measurement of Macro Variables and Economic Performance: National Income Accounting - <i>Important Concepts:</i> GNP, GDP, NNP, NDP, NI, PI, DPI- Real GDP versus Nominal GDP- GDP deflator- <i>Method of estimating National Income-</i> Expenditure Method- Income method- Value added or Net Product method- Difficulties in National Income Accounting- Trends in GDP in India -GNP and Quality of Life - Net Economic Welfare - Green Income.	7
Unit – 2: Classical and Keynesian Macroeconomics -----	14

Chapter- 4. Classical Theory: Introduction to classical theory of employment - Basic Assumptions of the Classical School- Say's law of Market- Determinants of Output, Employment, Savings, Investment, Wages, Prices, Interest Rate - Equilibrium Output and Employment-Implications of Classical Full Employment Model-Critical Evaluation	5
Chapter - 5. Keynesian Macroeconomics: Principle of effective demand- Keynesian theory of output, income and employment- Equilibrium Income and Output in Simple Two Sector Model, Three Sector & Four Sector Models	4
Chapter- 6: Keyes Psychological law of consumption- An Overview of Post Keynesian theories of consumption: absolute income, relative income, permanent income & life cycle hypothesis- Multiplier and Accelerator Analysis -Marginal Efficiency of Capital- Relevance and Critique of Keynesian Macroeconomics	5
Unit – 3 Recent Debates in Macroeconomics ----- 14	
Chapter - 7 Supply side Economics	4
Chapter - 8. Money market and Goods market equilibrium-IS-LM model-Business cycle- Concept and theories	5
Chapter - 9. Macroeconomic policies; Monetary Policy and Fiscal Policy-Relative effectiveness of monetary and fiscal policy	5

Books Recommended

Text Books

Ahuja H L (2013) Macroeconomics: Theory and Policy, S Chand & Company Pvt Ltd. New Delhi

Mankiw N. Gregory, (2012) Macroeconomics, Worth Publishers, New York.

Shapiro Edward, (2004) Macroeconomic Analysis, Galgotia Publications Pvt. Ltd, New Delhi.

References

1. Ackley Gardner, (1978) Macroeconomics: Theory and Policy, Macmillan, New York
2. Dornbusch, R., Fischer, S. and Startz, R.(2010), "Macroeconomics", McGraw-Hill, 11th Ed
3. D'Souza E (2009)., "Macroeconomics", Pearson Education
4. Froyen Richard T. (2013) Macroeconomics-Theories and Policies, Macmillan Pub., Company, NY.
5. Hubbard R. Glenn and Anthony Patrick O'Brien, (2012) Macroeconomics, Pearson Prentice, New Jersey, USA.
6. Oliver Blanchard, (2016) Macroeconomics, Pearson Prentice Hall, New Jersey, USA.

B.SC. Semester – II

**Subject: Economics (Minor)
Discipline Specific Course (DSC)**

Course No.-4 (Paper No. II)

Course No.	Type of Course	Theory / Practical	Credits	Instruction hour per week	Total No. of Lectures/Hours / Semester	Duration of Exam	Formative Assessment Marks	Summative Assessment Marks	Total Marks
Course-04	DSCC	Theory	03	03	42 hrs	2hrs	40	60	100

Course No.4 (Paper-II): Title of the Course (Paper-II) : **Statistics for Economics**

Course Outcome (CO):

After completion of course (No.4), students will be able to:

- CO 1 Calculate basic descriptive and inferential statistics.
- CO 2 Interpret descriptive and inferential statistics.
- CO 3 Explain the process of hypothesis testing

Syllabus- Course 4: Title- Statistics for Economics	Total Hrs: 42
Unit – 1: Basics of Statistics for economics, Measures of central tendency and dispersion	14
Chapter-1 Basics of Statistics for Economics: Why Study Statistics - Importance of statistics in Economics- Descriptive and Inferential statistics -Data - Elements, Variables, and Observations, Scales of Measurement - Qualitative and Quantitative Data - Cross-Sectional and Time Series data- Data sources - Computers and Statistical Analysis	4
Chapter-2 Measures of Central Tendency: Arithmetic mean, median, mode, Geometric mean and Harmonic mean measurement,uses and applications in Economics	5
Chapter-3 Measures of dispersion- Meaning and significance of measure of dispersion - Measurement and applications of Range , quartile deviation, mean deviation , standard deviation , variance and coefficient of variation	5
Unit – 2 Correlation, Regression, Time Series Analysis and Index Numbers	14
Chapter- 4. Correlation and Regression: Meaning and types of correlation, methods of computation of correlation coefficient –Karl Pearson’s method, Spearman’s rank correlation method- Regression –meaning and importance of regression analysis, simple regression lines and equations and forecasting (two variables only)	6
Chapter - 5. Time Series: Nature and Decomposition of Time Series - Analysis of Trend - Moving Average Method, Least-Square Method	3

Chapter - 6. Index Numbers: Nature and Purpose of Index Numbers - Types of Index Numbers: Price Index - Quantity Index, Link and Chain Index - Simple and Aggregate Index Numbers -Laspyre's Index, Paasche's Index, Marshall and Edgeworth's Index - Fisher's Index – Time- Reversal and Factor Reversal Tests- Deflation and Splicing of Index Numbers - Problems in the Construction of Index Numbers - Limitation of Index Numbers.	5
Unit - 3 Introduction to Probability Distributions and Hypothesis Testing	14
Chapter - 7 Probability: Basic Concepts- Properties of Probability- Expected Values, Conditional Probability Random Variables: Discrete and Continuous	3
Chapter - 8. Probability Distributions - Probability Density Functions and Cumulative Distribution Functions – Expected values and Moments - Binomial Probability Distribution, Poisson and Normal Distribution	6
Chapter - 9. Hypothesis Testing: Meaning of Hypothesis testing-Null and Alternative hypothesis, level of significance, One-tailed and two-tailed tests, Type I, Type II errors - Approaches to Hypothesis Testing - Confidence Interval Approach -Test of Significance Approach	5

Books recommended.

Text Books

Gupta S P. (2012) *Statistical Methods*, S. Chand and Company, New Delhi.

Suggested Readings : Latest editions may be used

1. Anderson, Sweeney & Williams, (2002) *Statistics for Business & Economics*, Thomson South-Western, Bangalore.
2. Daniel and Terrel (1995): *Business Statistics for Management and Economics*; Hoaghton Mifflin Co., Boston, Toronts, 7th Edition, , PP 1 to 972 + 6 Appendices
3. Medhi, J(1992)., *Statistical Methods: An Introductory Text*, Wiley,
4. Morris H. Degroot and Mark J. Schervish(2012), "Probability and Statistics", 4th edition.
5. Teresa Bradley(2007), *Essential Statistics for Economics, Business and Management*, John Willey Publisher

B.SC. Semester – II

Subject: Economics (Minor)
Open Elective Course (OEC-2)
(OEC for other students)

Course No.	Type of Course	Theory / Practical	Credits	Instruction hour per week	Total No. of Lectures/Hours / Semester	Duration of Exam	Formative Assessment Marks	Summative Assessment Marks	Total Marks
OEC-2	OEC	Theory	03	03	42 hrs	2hrs	40	60	100

OEC-2: Title of the Course : **Managerial Economics**

Course Outcome (CO):

After completion of course, students will be able to:

- CO 1 : Forecast the demand for goods and services
- CO 2 : Analyse the efficiency of resource use in the production
- CO 3 : Understand the determination of price and output under different market besides the methods of pricing in practice

Syllabus- OEC- 2: Title- Managerial Economics	Total Hrs: 42
Unit – 1 Introduction to Managerial economics, Demand analysis and Forecasting	14
Chapter-1: Meaning, nature and scope of Managerial Economics- Organisation of business firms- General Objectives of business firms	3
Chapter-2: Application of Basic Economic Principles to Managerial Problems: Incremental, Discounting, Time Perspective, Opportunity Cost and Equi-Marginal Principle	5
Chapter-3: Demand and its determinants- Elasticity of demand; Meaning, types and determinants-Meaning and Objective Demand Forecasting - Methods of demand forecasting and their usefulness and limitations	6
Unit – 2 : Production Analysis, Cost Analysis and Determination of price	14
Chapter- 4.: Managerial applications of production function- Laws of returns and their applications -Least cost combinations of inputs	4
Chapter - 5. Cost concepts and cost function- Cost-output relationship and its usefulness in production decision	4
Chapter - 6. Price and output determination in various markets; Perfect competition, monopoly, monopolistic competition and oligopoly	6

Unit – 3: Pricing Methods in Practice, Profit Management and Capital Budgeting	14
Chapter – 7: Pricing Methods in Practices: Specific Pricing Problems - Popular Pricing Practices: Cost-Oriented Pricing, Cost-Plus Pricing and Other Price Determinants, Peak - Load Pricing, Price over the Life Cycle of the Product, Penetration Price - Pricing of Multiple Products	5
Chapter – 8: Profit Analysis: Meaning of Profit - Accounting Profit and Economic Profit- Break-Even Analysis - Problems, Break-even Quantity, Break Even Sales - Targeted Profit, Safety Margin.	5
Chapter – 9: Capital Budgeting: Meaning and Importance - Techniques: Payback Period and Net Present Value (NPV) Method.	4

Books recommended.

Text Books

- 1 Salvatore Dominick, (2014) Managerial Economics in a Global Economy, McGraw Hill Inc., New York.
- 2 Mehta P.L., (2007) Managerial Economics: Analysis, Problems and Cases, Sultan Chand and Sons, New Delhi.

Suggested Readings: Latest editions may be used

- 1 Mc Guigon R. James, R. Charles Moyer, Frederick H Deb, Harris (2017) Managerial Economics: Applications, Strategy and Tactics, South Western, USA
- 2 Keat Paul G. and Philip K.Y. Young, (2003) Managerial Economics- Economic Tools for Today's Decision Makers, Prentice Hall, New Jersey.
- 3 Petersen H. Craig and W. Cris Lewis, (2006) Managerial Economics, Maxwell Macmillan International Editions, New York.
- 4 Samuelson William F, and Stephen G. Marks, (2006) Managerial Economics, John Wiley and Sons, Inc., New Jersey

Details of Formative assessment (IA) for DSCC/OEC/SEC: 40% weight age for total marks

Type of Assessment	Weight age	Duration	Commencement
Written test-1	10%	1 hr	8 th Week
Written test-2	10%	1 hr	12 th Week
Seminar	10%	10 minutes	--
Case study / Assignment / Field work / Project work/ Activity	10%	-----	--
Total	40% of the maximum marks allotted for the paper		

**Faculty of Science
03 - Year UG Basic Degree programme:2021-22**

**GENERAL PATTERN OF THEORY QUESTION PAPER FOR DSCC/ OEC
(60 marks for semester end Examination with 2 hrs duration)**

Part-A

4. Question number 1-06 carries 2 marks each. Answer any 05 questions : 10marks

Part-B

5. Question number 07- 11 carries 05Marks each. Answer any 04 questions : 20 marks

Part-C

6. Question number 12-15 carries 10 Marks each. Answer any 03 questions : 30 marks

(Minimum 1 question from each unit and 10 marks question may have sub questions for 7+3 or 6+4 or 5+5 if necessary)

Total: 60 Marks

Note: Proportionate weightage shall be given to each unit based on number of hours prescribed.

