



**THE STUDENT'S KIT: BDevS**  
**First Year (First Semester & Second Semester)**  
**September 2020 - August 2021**

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**Student's Information**

Name of the Student: .....

Section: ..... Roll No: .....

Tel No (Res): ..... Mobile No: No:.....

Email: .....

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# NATIONAL COLLEGE

## Introduction

Established in 1996, the National College has already established its irrefutable reputation in the success rate not just in terms of the number of final year students, who graduate but also in terms of their career placement. . Of the 1015 (BDevS–684, BDFin-257, BoSS-74) graduates by September 2020, almost all of them are currently engaged either in development organizations holding key positions or are enrolled in universities at home or abroad for their higher education. The college really takes pride for producing such capable and efficient pool of human resources in various fields of development sector.

### Brief Description of the Program

#### **BoSS: Interdisciplinary studies of Social Sciences**

- Relates the dynamics of the society and social change
- Creative Writing and presentation skills(Seminar series)
- Internships (GO, I-NGO, RO, PS)
- International Language (Chinese/German)
- Specialization (Demographic Sociology, Development Anthropology, Social Policy)
- Research Techniques (SIA) and Tools (GIS)
- Research and Analytical Skills workshops and Seminar
- Employment: Research and Policy Institution, INGO, GO, Self-employment, and Private Sector

#### **BDevS: Interdisciplinary Studies of Socio Economic Development**

- Economics, Sociology, Environment and Development Management,
- Specialization (Economic Development, Environment Development, Social Development)
- Development Research, Community Mobilization, Development Project Formulation, Implementation and Evaluation
- Research Techniques Impact Assessment(IA) and Tools (GIS)
- Research and Analytical Skills workshops and Seminar
- Employment: INGO, GO, Self-Employment, Private sector

#### **BDFin: Multidimensional Financial Management of Business and Economic Development**

- Economics, Finance, Management, Entrepreneurship and Development
- Internship in Corporate and Development Sectors
- Financial Research, Financial Institutions Management, Econometrics, e-Commerce,
- Promotion of Microfinance, Entrepreneurship and Business proposal development
- Integrated Impact Assessment
- Specialization: Sectoral Development
- Employment: Financial Institutions, Private sector, Self enterprise, INGO and GO

**SK-2 Academic Calendar**

Shared via college official email also available at <https://nationalcollege.edu.np/download> .

**Sk-3 Class Routine**

DAYS	TIME			
	6:45- 8:15	8:15- 8:45	8:45-10:15	<b>10:45-12:15</b>
SUN		Break		
MON				
TUE				
WED				
THU				
FRI				

**Weekly Session Plan**

DAYS	TIME		
	6:45- 8:15	8:15- 8:45	8:45-10:15
SUN		B R E A K	
MON			
TUE			
WED			
THU			
FRI			

**SK- 4 EVALUATION METHODS UNDER SEMESTER SYSTEM OF KATHMANDU UNIVERSITY-  
National College  
Semester Evaluation Criteria  
(Sep-Feb Academic Session 2020-21)**

**CASE 1**

In view of the situation brought about by COVID 19 pandemic, National College (Affiliated to Kathmandu University School of Arts) will be conducting semester evaluation of its students for the **Sep-Feb 2020/21 Academic Session** as per the decision of the Academic Council meeting held on April 16, 2020. For administration and facilitation of semester evaluation for BDEVs, BDFIN and BOSS programs, the following general guideline shall be adopted by the concerned staff and faculty.

1. Apart from regular teaching and learning activities, faculties and college administration shall be responsible for continuously keeping the track of every student both in terms of academic performance and participation.
2. The semester evaluation process and steps shall be clearly communicated by the college administration and the respective subject course instructor to the students.
3. For evaluation of the students, there should be at least seven evaluation criteria. No criteria should carry more than 25% weightage.
4. The semester progress report of each student shall be maintained by the concerned course instructor/ faculty.
5. Each faculty will have to submit a mid-semester progress report including the weightage evaluated. Such reports collected from the faculty shall be compiled by the college administration and forwarded to the Office of the Dean, KUSOA and to the Office of the Controller of the Examinations, KU.
6. In order to ensure proper understanding of the evaluation process, one general outline of evaluation shall be developed and circulated among faculties. A sample of such an outline is shown in Table 1.
7. Respective faculties will have to send the final evaluation report including the final score (along with breakdown in each heading of the evaluation criteria) to the college administration.
8. Evaluation records of all the concerned students thus obtained shall be forwarded at the earliest possible to the Office of the Dean, KUSOA and to the Office of Controller of Examinations, KU.
9. **All the students are required to score at least 45% Marks to pass any course of the semester.**
10. **There will be no compartmental examinations for those who have failed to secure at least 45% marks in any subject. Students failing to pass the course need to repeat the course when the course is offered by the college.** As students are continuously evaluated through different assignments and tests, and are communicated regularly about their progress, **there will be no provision for retotaling and reevaluating.**
11. All the students need to fill in the course registration form as in the past in the prescribed format. College administration shall forward the compiled course registration forms to the Office of the Dean, KUSOA and to the Office of the Controller of the Examinations, KU.

12. The students also need to fill in a semester evaluation request form (similar to examination form as in the past) towards the end of the semester.
13. The compiled semester evaluation request forms shall be forwarded to the Office of the Dean, KUSOA and to the Office of the Controller of the Examinations, KU.

**Table 1: Sample Criteria for Semester Evaluation of Sep-Feb 2020-21 Session**

SN	Type of Assignment	Score Range	Outcomes
1	Assignment I (Individual)	10	Test of knowledge about the subject matter
2	Assignment II (Individual)	10	Test of change in knowledge about the subject matter after few lecture delivery
3	Assignment III (I Internal Test equivalent)	15	Test the students' ability and their level of knowledge developed in the due course of time about the subject matter
4	Assignment IV (Report + Presentation)	15	Test of general concepts and application about the subject matter.
5	Assignment V (Online Written Open-Book Test)	25	Test of specific knowledge of students and examine their analytical skill and ability to apply such knowledge into real practice
6	Class Participation and Interaction	10	Participation and involvement of students in interaction and inputs during online-class based learning process
7	VIVA-VOCE test	15	Test of specific knowledge of students in each chapter and ability of applying such knowledge.

As this is only a sample, respective course instructors can, if they wish, add a few more criteria or/and change the weightage of each criteria (however, no criteria shall exceed more than 25% weightage).

**National College**  
**Semester Evaluation Criteria**  
**(Sep-Feb Academic Session 2020-21)**

**CASE 2**

If the current pandemic is over and upon being able to conduct classes physically any time within January 2021, the evaluation criteria will be as followed

**Eligibility for End- Semester Examination**

A student has to fulfill the following pre-requisites in order to be qualified to appear in the End-Semester Examination of Kathmandu University:

- Class Attendance (Minimum 80%): Minimum 25 out of 32 Class Days
- Minimum Marks to be Secured in the Internal Evaluation (40%): 20 out of 50
- Completed Examination Form to be submitted by the Given Deadline

<b>Activities</b>	<b>Score Entire Online Semester</b>	<b>Score Partially Online Semester</b>	<b>Tentative Accomplishment Date</b>
Assignment I (Practice type)	10	10	October 30
Assignment II (Creative type)	15	15	December 15
Assignment III (Preparation)	15	10	January 15
Assignment IV (Extension)	15	5	January 30
Third Internal Exams (Written)	No	5	February 5
Class interaction & Discipline	5	5	Through Out
Written Exams	25	50	March 5-20
VIVA	15	No	March 5-20

**SK-07 Course of Study****COURSES OF STUDY****Bachelor in Development Studies**

Approved by KU Academic Council on July 24, 2019

**First Year, First Semester**

<b>Code</b>	<b>Course Title</b>	<b>Credit</b>
ECON 102	Introduction to Micro Economics	3
ENGL 161	English-I	3
ENVT 101	Introduction to Ecology and Environment	3
MATH 131	Basic Linear Algebra and Applications	3
NEPL 105	Nepali I (Grammar and Writing)	3
SOCL 105	Introduction to Sociology and Anthropology	3
DEVS 121	Innovation in Development	1

**Kathmandu University  
School of Arts**

**2019**

Course Number	Course Title	Credit Hours
ECON 102	Introduction to Micro Economics	3

### Objectives

Upon completion of the course, students will be able to

- explain basic principles of micro economics and its phenomena;
- elaborate the theory of demand and supply, theory of factor pricing, theory of firm, and theory of product pricing;
- give real life examples pertinent to the application of concepts, principles and theories of microeconomics; and
- identify institutions involved in the microeconomic activities.

### Contents

Unit and Title	Topics	Lecture Hours
1. Introduction to Economics	<ul style="list-style-type: none"> <li>• Nature of economics, Economic Problem: scarcity versus choice, production possibility curve, distinction and interdependence between micro and macro economics, scope of micro and macro economics</li> </ul>	6
2. Theory of Demand and Supply	<ul style="list-style-type: none"> <li>• Determinants of demand, demand function, movement along a demand curve, shift in demand curve, elasticity of demand, income and cross elasticity of demand</li> <li>• Determinants of supply, supply function, movement along a supply curve, shift in supply curve, elasticity of supply</li> <li>• Determination of equilibrium price; concept, degrees and measurement of price, applications</li> </ul>	12
3. Theory of Firm	<ul style="list-style-type: none"> <li>• Concept of product and production function, law of diminishing returns, concept of returns to scale, economies and diseconomies of scale, economics of scope, Cobb Douglas production function</li> <li>• Cost function: money cost, explicit and implicit cost, opportunity cost, accounting and economic cost, private and social cost, short run cost and cost curves, long run costs</li> <li>• Revenue function: revenue under perfect and imperfect competition, revenue and price elasticity of demand</li> <li>• Short run equilibrium of firms and industry under perfect competition and monopoly</li> <li>• Iso-quants: Definition and derivation, properties, least cost combination of factors</li> </ul>	12

4. Theory of Factor Pricing	<ul style="list-style-type: none"> <li>• Industry determination of price and employment of inputs</li> <li>• Pricing of Labor: marginal productivity theory of wages, wage differentials, minimum wage law and trade union, income- leisure choice of worker, modern theory of wages</li> <li>• Pricing of Capital: investment and marginal productivity of capital, determination of interest rates</li> <li>• Pricing of Land: Concept of economic rent and its determination</li> </ul>	9
5. Theory of Product Pricing	<ul style="list-style-type: none"> <li>• Perfect competition, Monopoly and Monopolistic Competition: Equilibrium of firm and industry in the short run and long run, short run supply curve of competitive firm, price and output determination under perfect competition</li> <li>• Oligopoly: Characteristics, kinked demand curve model and cartels, Nash equilibrium determination of price and output in Duopoly</li> <li>• Price discrimination, comparison between different markets structures.</li> </ul>	9
<b>Total Lecture Hours</b>		<b>48</b>

**Required References:**

Kharel, Khom Raj, Yadav Ghimire, Dhruva Bhattarai, Sanjay Jnawali, Kabita Paudel, Barun Ghimire, Indra Bhusal. 2067. Business Economics for BBS. Kathmandu: Sukunda Pustak Bhawan  
Mankiw, N Gregory, 2006. Principles of Microeconomics. Thompson South-Western (4<sup>th</sup> edition)

**Recommended references:**

A Koutsoyiannis. Modern Microeconomics (Latest Edition)  
E Mansfield. Microeconomics - Theory and Applications (Latest Edition)  
Henderson, J Vernon and Poole, William. 1991. Principles of Microeconomics Lexington Books (Latest Edition)  
Mithani, DM. International Economics (Latest Edition)  
Watson, [Donald Stevenson](#) and Holman, [Mary A.](#) 1977. Price Theory and Its Uses. Houghton Mifflin

Course Number	Course Title	Credit Hours
ENGL 161 <sup>1</sup>	English - I	3

### Objective

Upon completion of the course, students will be able to

- Write structured essays as per the writer's techniques
- Maintain a journal
- Use development related vocabulary
- Explain verbally and in writing in English the intercultural communication, education, mass media, gender roles and work.

This course will be continued with the ENGL153 English – II in the 1<sup>st</sup> Year, 2<sup>nd</sup> Semester.

Unit and Title	Topics	Lecture Hours
1. Essential Activities	i) Maintaining a Journal	1.5
	ii) The Essentials of Writing <ul style="list-style-type: none"> <li>• Structure of an essay</li> <li>• Writing process</li> <li>• Writing with sources</li> </ul>	3
	iii) A Writer's Techniques <ul style="list-style-type: none"> <li>• main ideas and supporting details</li> <li>• purpose and audience</li> <li>• figures of speech</li> <li>• summarizing and paraphrasing</li> <li>• tone</li> </ul>	3
	iv) Vocabulary <ul style="list-style-type: none"> <li>• Prefixes, roots and suffixes</li> <li>• Phrasal verbs idioms and collocations</li> <li>• Denotations and connotations</li> <li>• Context clues: synonyms and antonyms</li> </ul>	3
2. Thematic Readings	<b>Intercultural Communication</b> <ul style="list-style-type: none"> <li>• Gary Althen, "American Values and Assumptions"</li> <li>• Lisa Davis, "Where Do We Stand?"</li> <li>• Robert Levine, "Time Talks with an Accent"</li> <li>• Yaping Tang, "Polite but Thirsty"</li> </ul>	7.5

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<sup>1</sup> As suggested by the Department of English, School of Arts, KU, this course offered in the Bachelor in Community Development is more relevant for BDevS and BDFin Programs.

Unit and Title	Topics	Lecture Hours
	<ul style="list-style-type: none"> <li>• Margaret Nyndell, "Friends and Strangers"</li> <li>• Premchand, "A Coward"</li> <li>• John Godfrey Saxe, "The Blind Men and the Elephant"</li> </ul>	
	<p><b>Education</b></p> <ul style="list-style-type: none"> <li>• John Holt, "School Is Bad for Children"</li> <li>• David Rothenberg, "How the Web Destroys the Quality of Students' Research Papers"</li> <li>• David Miller Sadker and Myra P. Sadker, "Multiple Intelligences and Emotional Intelligence"</li> <li>• Nicholas Gage "The Teacher Who Changed My Life"</li> <li>• Ji-Yeon Mary Yuhfill, "Let's Tell the Story of All America's Cultures"</li> <li>• Harold Courlander, "Coyote and the Crying Song"</li> <li>• Cheryl Savageou, "First Grade – Standing in the Hall"</li> </ul>	7.5
	<p><b>Mass Media and Technology</b></p> <ul style="list-style-type: none"> <li>• David Gelernter, "Computers and the Pursuit of Happiness"</li> <li>• Andrew Leonard, "We've Got Mail -- Always"</li> <li>• Ann McClintock, "Propaganda Techniques in Today's Advertising"</li> <li>• Kate Zernike, "Students Shall Not Download, Yeah, Sure"</li> <li>• Madeline Drexler, "Don't Touch That Dial"</li> <li>• Thaisa Frank, "Conceptual Fruit"</li> <li>• Richard Brautigan, "All Watched Over by Machines of Loving Grace"</li> </ul>	7.5
	<p><b>Gender Roles</b></p> <ul style="list-style-type: none"> <li>• Hamilton McCubbin and Barbara Blum Dahl, "Sex Roles"</li> <li>• Barbara Kantrowitch and Claudia Kalb, "Boys Will Be Boys"</li> <li>• Deborah Tannen, "Sex, Sighs and Conversation"</li> <li>• Carol Barkalow, "Women Have What It Takes"</li> <li>• Noel Perrin, "The Androgynous Male"</li> <li>• Charlotte Pomerantz, "The Princess and the Admiral"</li> <li>• Rakesh Ratti, "The Greater God"</li> </ul>	7.5
	<p><b>Work</b></p> <ul style="list-style-type: none"> <li>• Ruth Sidel, "The New American Dreamers"</li> <li>• Michael Ventura, "Someone Is Stealing Your Life"</li> <li>• J. Walljasper, "Our Schedules, Our Selves"</li> <li>• Horace Freeland Judson, "The Rage to Know"</li> <li>• Richard Rodriguez, "Los Pobres"</li> <li>• Heinrich Böll, "Action Will Be Taken"</li> <li>• Marge Piercy, "To Be of Use"</li> </ul>	7.5
	<b>Total Lecture Hours</b>	<b>48</b>

**Required references**

Gardner, Peter S. *New Directions*. 2<sup>nd</sup> ed. New Delhi: Cambridge University Press, 2009.

Course Number	Course Title	Credit Hours
ENVT 101	Introduction to Ecology and Environment	3

### Objective

Upon completion of the course, students will be able to

- explain fundamental concepts of ecology and environment;
- explain community ecology, ecosystem ecology, evolutionary ecology and geographical ecology with examples of Nepal and the world;
- explain environmental issues and their causes and remedies pertinent to Nepal as well as the world;
- explain services of ecosystems; and
- relate the concepts of ecology and environment in development sectors.

Unit and Title	Content	Lecture Hours
1 Ecology	Importance of Ecology and Environment in Development, Relation with other Sciences, Sub-divisions, Scope and History, Ecological Concepts, General Eco-Environmental Considerations, The Eco-system and functioning the biosphere and functioning. Carrying Capacity, Diversity Vs Simplicity, Biotic Succession and Land Rehabilitation, Ecological Balances.	9
2 Environment	Ecology and Environmental Science, An Approaches to Environment, Major Environmental Problems, Causes of Environmental Problems, Presentations of Environmental Quality-mitigation Measures/Responses. Policies in Development Plans.	9
3 Community Ecology	Meaning, Influence, Succession, Terrestrial Habitat	6
4 Ecosystem Ecology	Meaning components, Ecological Pyramid. Food Chain Productivity, Concepts, System Analysis and Eco-modeling, Major Ecosystem- Forest, Grassland, Desert, Fresh Water Marine	6
5 Evolutionary Ecology	Inheritance. Inter-specific Competitions, Cultural Evolution, Taxonomy, Natural Selection	6
6 Geographical Ecology	Introduction, Dispersal Dynamics pathways, Migration, Distributional Units.	6
7 Ecosystem Services	Goods and Services: Provisioning, Regulating and Cultural; Valuation: Direct Use Value, Indirect Use Value, Non-Use Value	6
	<b>Total Lecture Hours</b>	<b>48</b>

**Required References:**

- Millennium Ecosystem Assessment, 2005. ***Ecosystems and Human Well-Being: Synthesis***. Island Press, Washington, DC.
- Miller, GT. 2005. **Essentials of Ecology**. Singapore: Thomson Learning - Brooks/Cole (Third Edition).
- Odum, EP and Barrett, GW. 2005. **Fundamentals of Ecology**. New Delhi: Affiliated East West Press (Fifth Edition).
- Stiling, Peter. 2004. **Ecology Theories and Applications**. New Delhi: Prentice Hall of India (Fourth Edition).

**Recommended References:**

- Agrawal, SK. 1992. **Fundamentals of Ecology**. New Delhi: Ashish Publishing House
- Anderson, Stanley II, Ronald E. Beiswenger and P. Wlator Purdon. 1987. **Environmental Science**, Mecrill Publishing Company, (Third Edition)
- Bhuju, UR, PR Shakya, T Basnet and S Shrestha. 2007. **Nepal Biodiversity Resource Book**. Kathmandu: MoEST, ICIMOD, UNEP and NNdc
- Boyd, James and Banzhaf, Spencer. **What Are Ecosystem Services? The Need for Standardized Environmental Accounting Units**. Washington, DC: Resources for the Future. January 2006 (discussion Paper)
- Dash, MC. 1998. **Fundamental of Ecology**. New Delhi: Tata Mc Graw Hill Publishing Company Ltd., (Fourth Reprint)
- Island Press, 2007. **A Toolkit for Understanding and Action: Protecting Nature's Services. Protecting Ourselves**
- Kumar, HD. 1997. **General Ecology**. New Delhi: Vikash Printing House India.
- Odum, Eugene P. and Odum, Howard T. 1963. **Fundamental of Ecology**, W.B. Saunders Company (Second Edition)
- Panneerselvan, A and Ramakrishan M. 1996. **Environment Science**. New Delhi: Sterling Publishers.
- Sharma, CK. 1995. **Some Symptoms of Environmental Degradation in Nepal (1995-1994)**, Prints Support P. Ltd.
- Tripathi, AK, AK Srivastava, and SN Pandey. 1992. **Advances in Environmental Sciences**. New Delhi: Ashish Publishing House
- Tripathi, SN and Pandey, Sunakar. 1999. **Fundamentals of Environmental Studies**. New Delhi: Vrinda Publications.
- Trivedi, PR, UK Singh, KC Sudarshan and TK Tuteja. 1994. **International Encyclopedia of Ecology and Environment**
- Verma, PS and Agrawal, VK. 1998. **Environmental Biology (Principles of Ecology)**. New Delhi: S Chand & Company Ltd

Course Number	Course Title	Credit Hours
MATH 131	Basic Linear Algebra and Applications	3

**Course Description:** Instruction in analytical and problem-solving skills for business applications. Includes typical business scenarios and case studies for “real life”. The topics for this course include numeric and algebraic basics; algebraic forms and functions; quadratic and other functions; advanced algebraic techniques; applications; solutions of systems of equations; logarithms; exponentials; math of finance; matrix methods; linear programming; 2-variable simplex method via graphical methods; optimization; and others.

Contents are divided into two courses MATH 131 and MATH 132 as complements to each other. The MATH 131 focuses on algebra and its applications, and MATH 132 on calculus and its applications. Both the courses will enable students to efficiently apply the learned skills in daily office duties.

**Objectives:** Upon completion of this course, students will

- Acquire knowledge of mathematics related to functions permitting modeling of basic business, as well as other, applications.
- Learn solution methods and techniques for items such as matrices, optimization and math of finance.
- Explain the concepts of equations, functions, systems, order of operations, relationships between graphs and expressions.
- Demonstrate mathematical thinking
- Apply basic math skills in office applications
- Follow and analytical process in problem solving
- Explain the value of mathematical analysis in presentations and reports
- Display results in a graphical or meaningful way

Course Topic List:

Unit and Title	Topics	Lecture Hours
<b>Unit 1: Introduction</b>	Reviewing of Factoring, Rational Expressions, Exponents and Radicals, First-Degree Equations, Quadratic Equations, Graphs, Equations of Lines	<b>6</b>
<b>Unit 2: Sets and logics</b>	Concepts & notations, applications	<b>4.5</b>
<b>Unit 3: Functions</b>	Functions, Graphs of Functions, Applications of Linear Functions, Systems of Two Linear, Quadratic Functions and Applications, Polynomial Functions, Rational Functions, Exponential Functions, Applications of Exponential Functions, Logarithmic Functions	<b>9</b>
<b>Unit 4: Real number</b>	Real number system, modulus value and its application	<b>4.5</b>
<b>Unit 5: Curve</b>	Curve sketching	<b>4.5</b>
<b>Unit 6: Interest</b>	Simple Interest, Compound Interest, Annuities: Future	<b>6</b>

Unit and Title	Topics	Lecture Hours
	Value and Sinking Funds, Annuities: Present Value and Amortization	
<b>Unit 7:</b> Matrix and determinant	Matrix and determinant: application of matrix and determinant	<b>6</b>
<b>Unit 8:</b> linear equations	Mathematical thinking System of linear equations and its application	<b>7.5</b>
	<b>Total</b>	<b>48</b>

**Evaluation:** as per KU policy (50% internal evaluation based on class attendance, assignments, internal tests; and 50% end semester examination)

**References:**

1. D. B. Adhikary; Ekta Elements of Mathematics Parts 1 & 2; 2011; Ekta Books, Kathmandu, Nepal
2. R. E. Larson, B.H. Edwards; Finite Mathematics, 1991, D.C. Health & Company
3. E. F. Haeussler, R.S. Paul; Introductory Mathematical Analysis, 1996; Prentice Hall International

Course Number	Course Title	Credit Hours
NEPL 105	Nepali I (Grammar and Writing) (नेपाली - १)	3

### उद्देश्य

यो विषयको अध्ययन गरिसकेपछि विद्यार्थीहरू नेपाली भाषामा लिखित एवम् मौखिक पठन, बोध तथा अभिव्यक्त गर्न सक्षम हुनेछन् ।

यो विषयलाई प्रथम वर्ष, द्वितीयसत्रमा राखिएको नेपाली २ विषयका साथ निरन्तरता दिइनेछ ।

### विषयवस्तु :

एकाई र शीर्षक	विषय	अध्यापन घंटा
एकाई १ नेपाली व्याकरण	<p><b>१.१: वर्णविन्यास चिन्ह परिचय</b></p> <p>(क) तत्सम, तद्भव र आगन्तुक शब्दका सन्दर्भमा नेपाली वर्णविन्यासको ज्ञान र अभ्यास ।</p> <ol style="list-style-type: none"> <li>१) ह्रस्व र दीर्घ - (इ, ई, उ, ऊ) सम्बन्धी नियम र अपवादहरू</li> <li>२) श्, प्, स्</li> <li>३) ब्, व्</li> <li>४) व्, ओ, यु, ए, ऋ, रि, क्ष, छे, क्ष्य, छय,</li> <li>५) ड, ज, ण, न्, म् तथा शिरविन्दु र चन्द्रविन्दु</li> <li>६) हलन्तसम्बन्धी नियम र अपवादहरू</li> <li>७) पदयोग र पदयोगसम्बन्धी नियमहरू</li> <li>८) तत्सम शब्दको सन्दर्भमा उपसर्ग र प्रत्ययसम्बन्धी वर्णविन्यास</li> </ol> <p>(ख) लेख्य चिन्हहरूको प्रयोग : पूर्णविराम, अल्पविराम, अर्धविराम, प्रश्नबोधक, निर्देशक, कोष्ठ र उद्धरणसम्बन्धी चिन्हको ज्ञान र अभ्यास ।</p>	४.५
	<p><b>१.२ : शब्दवर्ग र शब्दरूपायन</b></p> <p>(क) स्रोत : तत्सम, तद्भव र आगन्तुक : व्युत्पादन : पूर्वसर्ग ( उपसर्ग), परसर्ग (प्रत्यय), समास र द्वित्व र विभिन्न शब्दवर्ग वा पदको स्रोत बनोट र कार्यका आधारमा शब्दहरूको ज्ञान, पहिचान र अभ्यास ।</p> <p>(ख) नाम, सर्वनाम, विशेषण, क्रियापद, क्रियायोगी, नामयोगी, संयोजक, विस्मयादिबोधक र निपात जस्ता शब्दवर्ग वा पदकोटीहरूको सोदाहरण परिचय, पहिचान र अभ्यास ।</p> <p>(ग) रूपायन : नाम, सर्वनाम र विशेषणको लिङ्ग, वचन र आदरका आधारमा रूपायन र रूपावलीको सोदाहरण परिचय र अभ्यास ।</p>	४.५

एकाई र शीर्षक	विषय	अध्यापन घंटा
	(घ) लिङ्ग, वचन, पुरुष, आदर, काला प्छ र भाव, वाच्य र अकरणका आधारमा क्रियापदको रूपायनको सोदाहरण परिचय र अभ्यास ।	
	<p><b>१.३: शब्दविन्यास (सन्धिसहित)</b></p> <p>(क) शब्द र शब्दव्युत्पादनको प्रक्रिया, मूल शब्द र व्युत्पन्न शब्द (पूर्वसर्ग, परसर्ग, समास र द्वित्व प्रक्रिया, व्युत्पादन र रूपायनको भिन्नताको ज्ञान र अभ्यास ।</p> <p>(ख) <u>उपसर्ग (पूर्वसर्ग) द्वारा शब्दनिर्माण</u> निम्नलिखित उपसर्गहरू मात्र</p> <ul style="list-style-type: none"> <li>— अ , अन , कु , बे , वि , वद्</li> <li>— प्र, अप, सं, अनु, वि, अधि, अति, उत्, प्रति, परि, उप, सु, निर , दुस् , दुर</li> </ul> <p><u>परसर्गद्वारा शब्दनिर्माण</u> निम्नलिखित कृत् प्रत्ययको ज्ञान र अभ्यास :</p> <ul style="list-style-type: none"> <li>— नु, ने, एको, तो, दो, एर, ई, न, आइ, ओट, आवट, अत, ओ, आउ, आहा, अक्कड, अन्त, उवा, इलो</li> <li>— अक, अन, इत, त, ता, ति, य, तव्य, अनीय ।</li> </ul> <p><u>निम्नलिखित तद्धित ज्ञान र अभ्यास</u></p> <ul style="list-style-type: none"> <li>— ली, आली, आलु, आहा, इयार, इलो, औली, यौली, ए, एली, ले, आई, याई, पन, पना</li> <li>— आलु, यक, यत, ई, इय, ईन, ईण, क, तम, ता, त्व, मय, मान्, वान्, य ।</li> </ul> <p>(ग) समासद्वारा शब्दनिर्माण समासको चिनारी, समास र विग्रहको प्रक्रिया एवं समस्त शब्दवर्गहरूको परिचानको अभ्यास । समासका प्रमुख भेदहरू (तत्पुरुष, कर्मधारय, द्विगु, अव्ययीभाव, बहुव्रीहि र द्वन्द्व समास मात्र) र र तिनका आधारमा समस्त शब्दहरूको निर्माण र विग्रह गर्ने एवं समासको नामको पहिचान गर्ने अभ्यास ।</p> <p>(घ) द्वित्वद्वारा शब्दनिर्माण द्वित्व र अन्य व्युत्पादन प्रक्रियामा फरक, पूर्ण र आंशिक द्वित्व प्रक्रियाद्वारा शब्दनिर्माण गर्ने अभ्यास ।</p> <p>(ङ) सन्धि नियम नेपाली तत्सम र तत्भव शब्दमा प्रयोग हुने प्रमुख सन्धि नियमको परिचय र अभ्यास ।</p>	४.५
	<p><b>१.४ : वाक्यतत्व</b></p> <p>(क) सरल वाक्यका उद्देश्य र विधेय तथा यीनको विस्तारको परिचयात्मक ज्ञान र अभ्यास ।</p> <p>(ख) क्रियाको परिचय</p> <ol style="list-style-type: none"> <li>१) अकर्मक, सकर्मक, द्विकर्मक र पूरकापेक्षी तथा मुख्य र सहायक क्रियाको पहिचान</li> <li>२) प्रेरणार्थक क्रिया</li> <li>३) नामधातु</li> <li>४) सरल र संयुक्त क्रियामा फरक</li> </ol> <p><b>काल</b></p> <ol style="list-style-type: none"> <li>१) कालको परिचय</li> <li>२) भूत र अभूतकाल (वर्तमान र भविष्यत्)</li> </ol>	४.५

एकाई र शीर्षक	विषय	अध्यापन घंटा
	<p><b>(ग) पक्ष</b></p> <ol style="list-style-type: none"> <li>१) पक्षको परिचय</li> <li>२) काल र पक्षमा फरक</li> <li>३) पक्षका प्रकार (सामान्य, पूर्ण, अपूर्ण, अभ्यस्त, अज्ञात)</li> </ol> <p><b>(घ) भाव अर्थ</b></p> <ol style="list-style-type: none"> <li>१) भाव र अर्थको परिचय</li> <li>२) सामान्यार्थ, विध्यर्थ (आज्ञार्थ, इच्छार्थ) अनिश्चयार्थ (सम्भावनार्थ, संकेतार्थ)</li> </ol> <p><b>(ङ) वाच्य</b></p> <ol style="list-style-type: none"> <li>१) वाच्यको परिचय, वाच्यका भेद</li> <li>२) कर्तृवाच्य, कर्मवाच्य र भाववाच्यमा फरक</li> </ol> <p><b>(च) संगति</b></p> <ol style="list-style-type: none"> <li>१) लिंग, वचन, पुरुष, आदर आदिका आधारमा कर्ता र समापिका क्रियाविच संडाति</li> <li>२) विशेषण-विशेष्य तथा भेदक-भेद्यका बीचको संगति</li> <li>३) नाम र सर्वनाम बीचको संगति</li> </ol> <p><b>(छ) करक र विभक्ति</b></p> <ol style="list-style-type: none"> <li>१) कारकको परिचय, कारक र विभक्तिको सम्बन्ध, कारक भेद</li> <li>२) कर्ता, कर्म, करण, सम्प्रदान र अधिकरणका साथै सम्बन्ध र पूरकको परिचय</li> <li>३) प्रत्यक्ष र अप्रत्यक्ष कर्ममा फरक</li> <li>४) सरल र तिर्यक कारक तथा तत्सम्बन्धी विभक्ति नियम</li> <li>५) ले, लाई, मा, को, बाट, देखि विभक्तिको प्रयोगसम्बन्धी नियम</li> </ol> <p><b>(ज) पदक्रम</b></p> <ol style="list-style-type: none"> <li>१) पदक्रमको चिनारी</li> <li>२) विशेषण-विशेष्यको पदक्रम (भेदक, विशेषण र नाम, क्रियायोगी र क्रियाका बीच)</li> <li>३) कर्ता र क्रिया : कर्ता, कर्म (अप्रत्यक्ष र प्रत्यक्ष कर्म) र क्रिया, कर्ता, कर्म र क्रियायोगीकको पदक्रम</li> <li>४) व्याकरणात्मक र साहित्यिक (आलंकारिक) पदक्रम</li> </ol>	
	<p><b>१.५ : वाक्यका प्रकार र वाक्यान्तरण</b></p> <ol style="list-style-type: none"> <li>१) सरल, संयुक्त र मिश्र वाक्यको पहिचान र अभ्यास</li> <li>२) सरल सामान्य वाक्यको उद्देश्य र विधेय तथा तिनको विस्तार चिन्ने अभ्यास : वाक्यान्तरण: सरल सामान्य वाक्यबाट विभिन्न अर्थका वाक्यमा परिवर्तन</li> <li>३) मिश्रवाक्यका मुख्य र आश्रित उपवाक्य चिन्ने अभ्यास</li> <li>४) सरल वाक्यबाट सरल, संयुक्त र मिश्र वाक्यमा वाक्य संश्लेषण गर्ने अभ्यास</li> <li>५) वाक्य संश्लेषण गर्दा हुने संयोजक, सर्वनाम र असमापिका क्रियाको प्रयोग र विभिन्न पद र पदावलीको लोपको ज्ञान र अभ्यास ।</li> <li>६) सरल वाक्यको नामीकरण, विश्लेषीकरण र क्रियायोगीकरण</li> <li>७) प्रत्यक्ष कथन र अप्रत्यक्ष कथनका आधारमा उक्ति परिवर्तनको अभ्यास ।</li> </ol>	३
एकाई २. नेपाली बोध तथा अभिव्यक्ति ( प्रयोजनपरक)	<p><b>२.१. बोध</b></p> <p>ज्ञान, विज्ञान, प्रविधि, कला, साहित्य संस्कृति, सभ्यता, आदि क्षेत्रका दृष्टांश तथा अदृष्टांश सामग्रीको बोध</p>	३
	<p><b>२.२. बुँदा टिपोट</b></p> <p>ज्ञान, विज्ञान, प्रविधि, कला, साहित्य, आदि क्षेत्रका साथै प्रतिवेदनका दृष्टांश तथा अदृष्टांश सामग्रीबाट मुख्य मुख्य बुँदा ठम्याए टिपोट गर्ने अभ्यास ।</p>	३
	<p><b>२.३. संक्षेपीकरण</b></p> <p>पढेका, सुनेका, सोचेका कुरा र ज्ञान, विज्ञान, प्रविधि, साहित्य, संस्कृति आदि क्षेत्रका सामग्रीको एक तिहाई शब्दमा मूल अभिव्यक्तिलाई एक तिहाई शब्दमा</p>	३

एकाई र शीर्षक	विषय	अध्यापन घंटा
	पुनर्लेखन गर्ने अभ्यास ।	
	<b>२.४. अनुच्छेद लेखन</b> विवरणात्मक, वर्णनात्मक, विप्लेषणात्मक आदि शैलिमा लेखिएका अनुच्छेद ठम्याउने र त्यस्तै समसामयिक विविध विषयमा अनुच्छेद लेख्ने अभ्यास ।	३
	<b>२.५. पत्र लेखन</b> निवेदन, नियुक्ति, सूचना, निमन्त्रणापत्र, करारनामा, भर्पाई, विविध किसिमका विज्ञापन (टेण्डर आदि पनि) लेखन सम्बन्धी अभ्यास ।	३
	<b>२.६. शब्द भण्डार</b> शिक्षा, संस्कृति, समाजशास्त्र, कानून, यातायात, वन, चिकित्साशास्त्र आदि विविध क्षेत्रका प्राविधिक तथा पारिभाषिक शब्दको अर्थबोधका साथै प्रयोग गर्ने अभ्यास ।	१.५
	<b>२.७. निबन्ध लेखन</b> विविध समसामयिक विषयमा वस्तुपरक, आत्मपरक, भावपरक, विचारात्मक र विवरणात्मक निबन्ध लेख्ने अभ्यास ।	३
	<b>२.८. टिप्पणी लेखन</b> कुनै समसामयिक विषय, समस्या, घटना तथा सार्वजनिक (सार्वकालिक पनि) महत्व र चासोका विषयमा टिप्पणी लेख्ने तरीकाको अभ्यास ।	३
	<b>२.९. प्रतिवेदन लेखन</b> कुनै सभा, समारोह, यात्रा, समस्या, घटना, अध्ययन आदि विषयमा विप्लेषणात्मक किसिमको मञ्चौला किसिमको प्रतिवेदन लेख्ने तरीकाको अभ्यास र प्रयोग ।	३
	<b>२.१० साहित्य गद्य लेखन र साहित्योत्तर गद्य लेखनका गुणदोष</b>	१.५
	<b>जम्मा अध्यापन घंटा</b>	<b>४८</b>

#### आवश्यक सन्दर्भ सामग्रीहरू

- (क) सोमनाथ शर्मा , मध्यचन्द्रिका, साभा प्रकाशन, काठमाडौं ।
- (ख) मोहनराज शर्मा, शब्दरचना, वर्णविन्यास, काठमाण्डौं बुक सेन्टर, काठमाडौं
- (ग) हेमाङ्ग राज अधिकारी, समसामयिक नेपाली व्याकरण, कुञ्जन प्रकाशन, काठमाडौं ।
- (घ) लालनाथ सुवेदी, नेपाली वर्णविन्यास, साभा प्रकाशन, काठमाडौं ।

#### अन्य सन्दर्भ सामग्रीहरू:

- वृहत् नेपाली शब्दकोष, नेपाल राजकीय प्रज्ञाप्रतिष्ठान, काठमाडौं ।
- समसामयिक पत्र पत्रिकामा प्रकाशित ज्ञान, विज्ञान, कला, साहित्य, धर्म, संस्कृति, संचारसंग सम्बन्धित नेपाली भाषाका स्तरीय लेख तथा सम्पादकीयहरू ।

Course Number	Course Title	Credit Hours
SOCL 105	Introduction to Sociology and Anthropology	3

**Objective:**

Upon completion of the course, students will be able to

- explain the fundamental concepts of Sociology/Anthropology;
- explain social structure, order, organization, system, control, socialization and social change;
- relate sociology/anthropology with other sectors of development namely economics, history, political science, psychology and archaeology; and
- design and undertake socio-anthropological research pertinent to development studies.

Unit	Content	Credit Hours
1	Community, society, group, culture, status-role, institution, norm, value, conformity	7.5
2	Meaning, nature and scope of Sociology/Anthropology in relation to development. Differences/Similarities between Sociology and Anthropology. Relation of Sociology/Anthropology with Economics, History, Political Science, Psychology and Archaeology.	12
3	Evolution and historical development of Sociology and Anthropology in general and specifically in Nepal.	7.5
4	Social structure. Social order, social organization, social system, social control, socialization and social change.	9
5	Science and scientific research, socio-economic variables, independent and development variable. Research and theory in sociology and anthropology, sampling, field work, social survey, observation, participant observation interview, life history, case-study, research design, etic and emic research.	12
<b>Total Lecture Hours</b>		<b>48</b>

**Recommended References:**

Bottomore, T.B. (1972) Sociology a Guide to Problems and Literature, Bloukie and son (India) Ltd. Bombay

Goode, William Ja and Paul- K. Hatt (1952) Methods in Social Research, McGraw-Hill Ltd. New Delhi

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Inkeles, Alex (1997) What is Sociology? An Introduction to the Discipline and Profession, Prentic-Hall of India, New Delhi.

Kerlinger Fred N. (1983) Foundation of Behavioral Research, Surjeet Publications, Delhi

Leslie, Rerald Retal (1994) Introductory Sociology, Oxford University Press, New Delhi

Maciver, R.M. And- Charles H. Page (1998) Society An Introduction Analysis, Macmillan India, Ltd. New Delhi.

Merton, R.K. (1981) Social Theory and Social Structure, Amerind Publishing Co. Pvt. Ltd, New Delhi.

Pritchard, Evans (1996) Social Anthropology, Universal Book Stall, New Delhi

Course Number	Course Title	Credit Hours
DEVS 121	Seminar: Innovation in Sustainable Development	1

The inclusion of this course is to give a student an opportunity to explore and communicate creative thinking and innovative ideas on sustainable development.

### Objectives

Upon completion of the course, students will be able to -

- Identify challenges, issues or problems and appropriate remedies, solutions and mitigation measures pertinent to sustainable development at local, national or global levels
- Explore creative thinking and innovative ideas in sustainable development
- Prepare a presentation notes with a logical sequence for convincing the audiences including decision makers, donors, sponsors and other stakeholders
- Communicate the ideas using appropriate presentation media and styles
- Manage academic events

### CONTENT

Unit and Title	Topics	Lecture Hours
6. Background	<ul style="list-style-type: none"> <li>• Definitions of challenges, issues or problems pertinent to sustainable development at local, national or global levels</li> <li>• Appropriate remedies, solutions or mitigation measures in respect to the challenges, issues or problems</li> <li>• Theories of creative thinking and innovative ideas on sustainable development</li> <li>• Case Studies on Creative and Innovative Works pertinent to sustainable development in Nepal or elsewhere-               <ul style="list-style-type: none"> <li>• Social aspects:                   <ul style="list-style-type: none"> <li>○ Tangible - Arts and Culture (ceramics, culinary arts, fabric crafts, metal crafts, painting/thangka arts, stone crafts, wooden crafts, monuments etc.</li> <li>○ Intangible - Arts and Culture (language, literature, music, performing arts,</li> </ul> </li> </ul> </li> </ul>	1.5

Unit and Title	Topics	Lecture Hours
	folklores, festivals etc.) <ul style="list-style-type: none"> <li>• Environmental Aspects:               <ul style="list-style-type: none"> <li>○ Natural resource management (agriculture, fishery, floriculture, forestry, livestock, medicinal herbs, poultry, river training, water management, wildlife etc.)</li> <li>○ Disaster prevention and adaptation (earthquakes, eclipses, floods, forest fire, landslide, lightnings, snow, storms etc)</li> </ul> </li> <li>• Economic Aspects:               <ul style="list-style-type: none"> <li>○ Goods – entrepreneurships, industries,</li> <li>○ Services - financial management, tourism, trade etc.)</li> </ul> </li> <li>• Others</li> </ul>	
<b>7. Oral Presentation</b>	<ul style="list-style-type: none"> <li>• Oral presentation</li> <li>• Types of presentations: informative, narrative, and persuasive</li> <li>• Overcoming Speech Anxiety</li> <li>• Audience Analysis</li> <li>• Organizing Message</li> <li>• Language and Etiquettes</li> </ul>	1.5
<b>8. Poster presentation</b>	<ul style="list-style-type: none"> <li>• Poster presentation</li> <li>• Purpose of the event</li> <li>• Space and Format</li> <li>• Planning and Design</li> </ul>	1.5
<b>9. Facilitation</b>	<ul style="list-style-type: none"> <li>• Master of Ceremony (schedule, protocol, bridging, question/answer, time management etc)</li> <li>• Rapporteur (summary, vote-of-thanks, announcements etc)</li> </ul>	1.5
<b>10. Demonstration</b>	<ul style="list-style-type: none"> <li>• Models, Samples, Products</li> <li>• Performance, as applicable</li> </ul>	1.5
<b>11. Events Management</b>	<ul style="list-style-type: none"> <li>• Events: Purpose and Planning</li> <li>• Venue and Logistics</li> <li>• Volunteers and Tasks Distributions</li> <li>• Audiences and Guests</li> <li>• Catering and Facilities</li> <li>• Organize an event coinciding with an occasion in the college e.g. <i>College Day on May 23</i></li> </ul>	1.5
<b>12. Practice Sessions (five)</b>	<ul style="list-style-type: none"> <li>• Oral presentation @ 10 minutes (6 students per session) followed by discussions</li> <li>• Poster Presentation (final products to be displayed on an event day)</li> </ul>	7.5
<b>Total Lecture Hours</b>		<b>16.5</b>

(Note: Unit 1 through 6 will be conducted in two sessions per week in the beginning, and for the Unit 7, there will be one practice session per week.)

**Assignments** (individual/group): library/web search for various techniques of presentation, data collection/analysis, field observation, works on case study, report writing, presentation etc

**Field Study** (probable sites):

- **Participate in workshop, seminar, symposium, conference or similar events**

Teaching methods:

- **Lecture on concepts and key elements of the topics of oral/poster presentations, Demonstration of effective presentations (first 4 sessions)**
- **Practice Presentations by students and self-evaluations in session (two presentations each in 12 sessions)**

**Required References:**

4-H. How to Give a Method Demonstration.

<https://www.lsuagcenter.com/MCMS/RelatedFiles/%7BD4E91CD0-EA91-4041-9326-C2BBF3694450%7D/How-to-Give-a-Method-Demonstration.pdf>

Carl Storz et al. 2002. Oral Presentation Skills

[http://people.engr.ncsu.edu/txie/publications/oral\\_presentation\\_skills.pdf](http://people.engr.ncsu.edu/txie/publications/oral_presentation_skills.pdf)

Mandel, Steve. 2000. Effective Presentation Skills: A Practical Guide for Better Speaking

<http://my.safaribooksonline.com/book/communications/1560525266>

MINISIS. Product Demo Guide (MINISIS version 9.06.19) In

[https://www.minisisinc.com/pdf/Product\\_Demo\\_Guide.pdf](https://www.minisisinc.com/pdf/Product_Demo_Guide.pdf)

Skillsyouneed. 2011. Presentation Skill [http://www.skillsyouneed.com/presentation-](http://www.skillsyouneed.com/presentation-skills.html)

[skills.html](http://www.skillsyouneed.com/presentation-skills.html)

**Recommended references:**

Beduschi, LC, Raúl Contreras, R, Holz, R. 2017. Innovation for Sustainable Rural Development: Towards A Theoretical Framework. Santiago, Chile: FAO / Imanol Cambor In <http://www.fao.org/3/a-i7769e.pdf>

**Evaluation:** as per KU policy (100% internal evaluation based on class attendance, assignments, internal tests)

## COURSES OF STUDY

**Bachelor in Development Studies**

Approved by KU Academic Council on July 24, 2019

**First Year, Second Semester**

<b>Code</b>	<b>Course Title</b>	<b>Credit</b>
DEVS 101	Concepts and Theories of Development	3
ECON 205	Macro Economics	3
ENGL 162	English-II	3
MATH 132	Basic Calculus and Applications	3
NEPL 106	Nepali II (Literature and Research)	3
STAT 105	Introductory Statistics	3
	<b>Total</b>	<b>18</b>

**Kathmandu University  
School of Arts**

**2019**

Course Number	Course Title	Credit Hours
<b>DEVS 101</b>	Concepts and Theories of Development	<b>3</b>

## Objective

Upon completion of the course, students will be able to

- **explain the basic principles and theories of development their application in the real life situation; and**
- **relate the principles and theories of development with the other sectors such as economics, sociology and environment.**
- **link sustainable society and sustainable development**

Unit and Title	Course	Lecture Hour
1. Development	1. Defining and understanding Development 2. Understanding Sustainable Development 3. Millennium Development Goals 4. Measuring human development (HDI)	<b>6</b>
2. Poverty and Deprivation	5. The poor and their view on poverty 6. Some approaches for addressing poverty (welfare and redistribution, livelihoods approach, rights-based approach, economic growth, distribution of world income) 7. Qualitative and quantitative measurements of poverty (Amartya Sen's Model of Addressing Poverty) 8. Sustainable Livelihood (DFID's Sustainable Livelihood Model)	<b>6</b>
3. Development, Modernization and Economic Growth	9. Pre-requisites and obstacles (menu of relevant factors) 10. Savings, Investment, Physical Expansion (Harrod Domar, Big Push) 11. Comparative Advantage, Industrialization, 12. Keynesian Model of Growth 13. Rostovian stages of economic growth 14. Modernization and Globalization	<b>6</b>
4. Global History	15. Ancient civilizations and agrarian societies; 16. Formation of modern nation-states; 17. Industrial Revolution, the rise of the West, Colonialism; expansionism and imperialism	<b>3</b>

Unit and Title	Course	Lecture Hour
5. Nepal – case study in underdevelopment	18. Characteristics of underdevelopment (agriculturally based, low level of capital accumulation, rapid population growth, unemployment) 19. History of Nepal’s development; socio-cultural, politico-economic constructs (1769-1846, 1846-1950, 1950-1990, 1990-2004, 2006-2009) 20. Key development challenges for Nepal 21. Some views on Nepal’s failed development: 22. Nature of response to these challenges from the state, private sector, NGOs, and civil society	6
6. Selected Themes in Contemporary Development	23. Governance and the role of the state, corruption and rent seeking 24. Population and migration, International trade	3
7. Selected Themes in Sustainable Development	25. Building sustainable society’s nine principles 26. principles and philosophy of UNEP, WWF, ICIMOD, IUCN 27. Environment and Natural Resources 28. Climate Change, and Carbon Trade	12
8. Field Visit and Review	Field Visit Review class	4.5 1.5
	<b>Total Lecture Hours</b>	<b>48</b>

#### Required references:

1. Bhattachan K. B., Mishra C. Developmental Practices in Nepal. Chapter 6: People/Community Based Development Challenges in Nepal.
2. Bongratz and Dahal: Development Studies.
3. Caring for the Earth; UNEP, WWF, ICIMOD and IUCN
4. Chambers, Robert; Ideas for Development.
5. Dahal and Bongratz; Development Studies, Self Help Organizations, NGOs and Civil Society, NEFAS
6. David Hulme, Karen Moore, 2001, *Chronic Poverty: Meanings and analytical Frameworks*. CPRC, 2001
7. Good Governance: Concept and Practices; Technical Paper, 2007 UNESCAP, Bangkok
8. Human Development Report 2008; UNDP
9. Millennium Development Goals (MDG), 2007; UNDP
10. Online reading materials: [en.wikipedia.org/wiki/Human\\_Development\\_Index](http://en.wikipedia.org/wiki/Human_Development_Index)
11. Online: [southasia.oneworld.net/Article/invest-in-agriculture-to-end-poverty-world-bank-report](http://southasia.oneworld.net/Article/invest-in-agriculture-to-end-poverty-world-bank-report)
12. Online: [www.imf.org/external/NP/prsp/prsp.asp](http://www.imf.org/external/NP/prsp/prsp.asp)
13. Online: [www.worldbank.org/poverty/](http://www.worldbank.org/poverty/)
14. Pandey D R; Nepal’s Failed Development.

15. Singh Katar, Rural Development, Vistaar Publication
16. Thirlwall A.P., Growth and Development, 6<sup>th</sup> Edition

### Recommended References:

1. Gupta, R.K. *Economics of Development and Planning*, New Delhi: Atmaram & Sons, (Latest available edition).
2. Jhingan, M.L., *Economics of Development and Planning*, New Delhi : Vikas Publishing, (Latest available edition)
3. Ghosh, B.N., *Economic Development and Planning*, New Delhi: National Publishing House (Latest available edition)
4. Sachdeva, D.R. & Vidya Bhushan, *An introduction to Sociology*, Bombay Kitab Mahal, (Latest available edition)
5. Bhagawati, Jagadish, *Economics of Under Developed Countries*, London, Weidenfeld and Nicolson, 1971.

Course Number	Course Title	Credit Hours
ECON 205	Macro Economics	3

### Objectives

Upon completion of the course, students will be able to

- explain basic concepts of macroeconomics and its phenomena;
- explain the Classical and Keynesian theories of macroeconomics;
- elaborate the concepts of Trade and Development including determination of exchange rates;
- use the techniques of contemporary macroeconomics as tools to understand and evaluate macroeconomic policies; and
- identify the macroeconomic issues in Nepal.

### Contents

Unit and Title	Topics	Lecture Hours
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Unit and Title	Topics	Lecture Hours
1. Basic concepts of Macroeconomics	<ul style="list-style-type: none"> <li>• Balance of trade and balance of payments, causes for dis-equilibrium of balance of payments</li> <li>• Concept of exchange rate, exchange rate determination-demand-supply approach</li> <li>• Various concepts of National Income, Gross Domestic Product: product method, income method and expenditure method, measurement difficulties of national income, Gross National Product identity, circular flow of income and expenditure (two sector and three sectors only)</li> <li>• Concept of Unemployment, Definition of disguised unemployment, open unemployment, frictional unemployment, cyclical unemployment, structural unemployment, Causes of unemployment in Nepal, Remedial measures of urban and rural unemployment in Nepal</li> <li>• Definition of inflation, Demand and supply side inflation in graphs and their causes, Economic and non economic consequences of inflation, Introduction of Phillips Curve</li> <li>• Macroeconomic instability, Developing-country debt: concept of Capital Flight, IMF stabilization policies, problems with stabilization policies, IMF and World Bank: the difference</li> </ul>	9
2. Classical theory	<ul style="list-style-type: none"> <li>• Determination of real wage rate, employment, output, price and nominal wage rate in classical economy</li> <li>• Effect of change in money supply in the wage rate, employment, output, and price in classical theory</li> <li>• Say's Law of markets and its criticisms</li> <li>• Quantity theory of Money, Laissez Faire concept; Classical Dichotomy, Paradox of thrift, Productivity Paradox</li> </ul>	6
3. Keynesian theory	<ul style="list-style-type: none"> <li>• Principle of Effective Demand, Assumptions of Keynesian employment theory, theory of employment determination, output determination in two, three, and four-sector economy with figures and examples</li> <li>• Consumption function, Psychological Law of Consumption, Saving function, Investment function</li> <li>• Induced and Autonomous Investment: the difference, Investment multiplier, Derivation of Investment Multiplier using MPC, Derivation of tax</li> </ul>	9

Unit and Title	Topics	Lecture Hours
	and government expenditure multiplier in three sector economy when tax in autonomous and induced one with illustration, Derivation of export and import multiplier with graphs and examples	
4. Economic Growth Models	<ul style="list-style-type: none"> <li>• Classical: Concept of Opportunity cost, Comparative and Absolute Advantage workout examples, Ricardo's Comparative Advantage Theory, Keynesian: Harrod-Domar growth model and is knife edge stability, Neo-classical exogenous growth model: Solow-Swan growth model, Endogenous growth theory: Romer and Lucas, Romer's Charter Cities concept</li> </ul>	4.5
5. Trade and Development	<ul style="list-style-type: none"> <li>• Concept of Free Trade, Criticisms of free-trade theory, Importance of exports to developing nations, concept of Free-trade Area</li> <li>• Export Promotion Vs Import Substitution, Theory of Protection: infant industry argument, Import Tariff and Import Quota, Neoclassical theory: Factor endowment trade theory; Arguments for trade and development; Trade Liberalization: Theory and Practice; WTO: Why people hate it</li> <li>• Exchange rate determination; exchange rate manipulation- two different examples with two different reasons: Yuan pegged with US dollar (make exports cheaper), NRs pegged with IRs (facilitate smooth trade), Pegging: does it work</li> </ul>	7.5
6. Macroeconomic Issues in Nepal	<ul style="list-style-type: none"> <li>• Current information on agriculture, tourism, foreign employment, inflation, balance of trade, and balance of payment</li> <li>• Unemployment, remittance economy, inflation, failure of Philips Curve</li> <li>• Money M1 and M2 in Nepal, the recent liquidity crisis, critiques and lessons</li> <li>• Urban Giantism Problem, causes for urban giantism, First City Bias, five policy implications of rural-urban migration, Migration and employment strategy to combat rural-urban migration, Investment in health and education: Human Capital approach</li> <li>• Role of Central Banks in LDCs, Improving the performance of State-Owned Enterprise: Privatization, Making Globalization Work, Profits over people</li> <li>• Two kinds of world agriculture: developing and developed world; concept of Productivity Gap;</li> </ul>	12

Unit and Title	Topics	Lecture Hours
	Fragmentation and subdivision of land in Nepal: landlords, sharecroppers, tenant farmers, money-lenders; Requirements for rural development in Nepal: Technology and Innovation, Land reform, Supportive Policies, Integrated Development Objectives	
	<b>Total Lecture Hours</b>	<b>48</b>

#### Required References

1. Macroeconomics 3<sup>rd</sup> edition by Olivier Blanchard. Publisher: Pearson Education, Ltd.
2. Economic Development 8<sup>th</sup> edition by Michael P. Todaro and Stephen C. Smith. Publisher: Pearson Education, Ltd.
3. Making Globalization Work by Joseph Stiglitz. Publisher: Penguin UK.
4. False Economy by Alan Beattie. Publisher: Penguin UK.

#### Recommended References

5. Macroeconomics, Andrew Abel and Ben Bernake. Fourth Edition
6. Monetary Economics, R.R. Paul, eighth edition.

Course Number	Course Title	Credit Hours
<b>ENGL 162<sup>2</sup></b>	English - II	<b>3</b>

#### Objective

This course is in continuation with the ENGL161 English – I offered in the 1<sup>st</sup> Year 1<sup>st</sup> semester.

Upon completion of the course, students will be able to

- Use the English language skills and strategies of continuing ideas, making passive sentences and making connections pertinent to the world health scenario;
- Share main ideas, unfavored and favored views and reduced relative clauses for living in a multicultural society;
- Use English language for definition, classification, tabulation, illustrations, comparison and contrast; and
- Apply the concepts of Problem-Solution Texts, *-ing* Words that Express Results and Nominalization.

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<sup>2</sup> As suggested by the Department of English, School of Arts, KU, this course offered in the Bachelor in Community Development is more relevant for BDevS and BDFin Programs.

Unit and Title	Topics and Readings	Lecture Hours
Unit 1: World Health in the Twenty-First Century	<p><b>Skills and Strategies</b></p> <ul style="list-style-type: none"> <li>• Continuing Ideas</li> <li>• Cause and Effect</li> <li>• Passive Sentences</li> <li>• Making Connections: Exercises</li> </ul> <p><b>Relevant Readings:</b></p> <ul style="list-style-type: none"> <li>• Heart Disease and Changing Attitudes</li> <li>• Cardiovascular Disease: Good News – Bad News Story</li> <li>• Medicine and Genetic Research: Promise and Problems</li> <li>• AIDS – Not Someone Else’s Problem</li> <li>• Better Health for Everyone: Health Care in Two Worlds</li> </ul>	12
Unit 2: Living in a Multicultural Society	<p><b>Skills and Strategies</b></p> <ul style="list-style-type: none"> <li>• Main Ideas</li> <li>• Unfavored and Favored Views</li> <li>• Reduced Relative Clauses</li> <li>• Making Connections: Exercises</li> </ul> <p><b>Relevant Readings:</b></p> <ul style="list-style-type: none"> <li>• The Age of Immigration</li> <li>• Who Are Today’s Immigrants?</li> <li>• Views on Multiculturalism</li> <li>• Experimental Evidence on the Nature of Prejudice</li> <li>• The Challenge of Diversity</li> </ul>	12
Unit 3: Aspects of Language	<p><b>Skills and Strategies</b></p> <ul style="list-style-type: none"> <li>• Definition and Classification</li> <li>• Tables and Illustrations</li> <li>• Comparison and Contrast</li> <li>• Making Connections: Exercises</li> </ul> <p><b>Relevant Readings:</b></p> <ul style="list-style-type: none"> <li>• Variation in Language</li> <li>• Sociolinguistic Rules of Speaking</li> <li>• Child Language Acquisition: Phonology</li> <li>• Brain Development and Learning a Second Language</li> <li>• Language Acquisition: The Early Years</li> </ul>	12
Unit 4: Looking After Planet Earth	<p><b>Skills and Strategies</b></p> <ul style="list-style-type: none"> <li>• Problem-Solution Texts</li> <li>• <i>-ing</i> Words that Express Results</li> <li>• Nominalization</li> <li>• Making Connections: Exercises</li> </ul> <p><b>Relevant Readings:</b></p> <ul style="list-style-type: none"> <li>• The Aral Sea: An Environmental Crisis</li> <li>• Ecology, Overpopulation and Economic Development</li> <li>• Unsustainable Development and Mayan Civilization</li> <li>• Biological Diversity under Attack</li> </ul>	12

Unit and Title	Topics and Readings	Lecture Hours
	<ul style="list-style-type: none"> <li>Climate Change: Managing the Global Greenhouse</li> </ul>	
<b>Total Lecture Hours</b>		<b>48</b>

**Required References**

Pakenham, Kenneth J. *Making Connections: A Strategic Approach to Academic Reading*. 2<sup>nd</sup> ed. New York: Cambridge University Press, 2005.

Readings as mentioned in the unit contents.

Course Number	Course Title	Credit Hours
MATH 132	Basic Calculus and Applications	<b>3</b>

**Course Description:** Instruction in analytical and problem-solving skills for business applications. Includes typical business scenarios and case studies for “real life”. The topics for this course include numeric and algebraic basics; algebraic forms and functions; quadratic and other functions; advanced algebraic techniques; applications; solutions of systems of equations; logarithms; exponentials; math of finance; matrix methods; linear programming; 2-variable simplex method via graphical methods; optimization; and others.

Contents are divided into two courses MATH 131 and MATH 132 as complements to each other. The MATH 131 focuses on algebra and its applications, and MATH 132 on calculus and its applications. Both the courses will enable students to efficiently apply the learned skills in daily office duties.

**Objectives:** Upon completion of this course, students will

- Acquire knowledge of mathematics related to functions permitting modeling of basic business, as well as other, applications.
- Learn solution methods and techniques for items such as matrices, optimization and math of finance.
- Explain the concepts of equations, functions, systems, order of operations, relationships between graphs and expressions.
- Demonstrate mathematical thinking
- Apply basic math skills in office applications
- Follow and analytical process in problem solving
- Explain the value of mathematical analysis in presentations and reports
- Display results in a graphical or meaningful way

Unit and Title	Topics	Lecture Hours
<b>Unit 1: Introduction</b>	Reviewing of Set theory, diagrammatic representation of sets, verification of some laws of algebra on sets	<b>7.5</b>
<b>Unit 2: Complex number</b>	Real number, imaginary number, definition, notation, visualization (Cartesian complex plane, Polar complex plane), Relations & Operations, Complex analysis,	<b>6</b>

Unit and Title	Topics	Lecture Hours
	Applications	
<b>Unit 3:</b> Limit and Continuity	<a href="#">Definition of Limit of a Function</a> , <a href="#">Properties of Limits</a> , <a href="#">Trigonometric Limits</a> , <a href="#">The Number e</a> , <a href="#">Natural Logarithms</a> , <a href="#">Indeterminate Forms</a> , <a href="#">Use of Infinitesimals</a> , <a href="#">L'Hopital's Rule</a> , <a href="#">Continuity of Functions</a> , <a href="#">Discontinuous Functions</a>	<b>7.5</b>
<b>Unit 4:</b> Differentiation	Differentiation, notation, Derivatives, functions (algebraic, trigonometric and exponential), basic derivative rules	<b>6</b>
<b>Unit 5:</b> Application of Derivatives in Economics and business	Cost Function (Fixed and Variable), Demand Function, Revenue function and Profit Function	<b>7.5</b>
<b>Unit 6:</b> Integration and its Application	<a href="#">Area between curves</a> ; <a href="#">Distance</a> , <a href="#">Velocity</a> , <a href="#">Acceleration</a> ; <a href="#">Volume</a> ; <a href="#">Average value of a function</a> ; <a href="#">Work</a> ; <a href="#">Probability</a> ; <a href="#">Arc Length</a> ; <a href="#">Surface Area</a>	<b>7.5</b>
<b>Unit 7:</b> Consumer's and Producer's Surplus	Surplus (meaning and calculation), Graphical illustration	<b>6</b>
	Total	<b>48</b>

**Evaluation:** as per KU policy (50% internal evaluation based on class attendance, assignments, internal tests; and 50% end semester examination)

#### References:

1. D. B. Adhikary; Ekta Elements of Mathematics, Part 1 & 2; Ekta Books, Kathmandu, Nepal
2. R. E. Larson, B.H. Edwards; Finite Mathematics, 1991, D.C. Health & Company
3. E. F. Haeussler, R.S. Paul, Introductory Mathematical Analysis, USA, 1996; Prentice Hall International

संकेताङ्क	शीर्षक	भार घण्टा
नेपाली १०६	नेपाली २	३

#### उद्देश्यहरू:

यो विषय प्रथम वर्ष, प्रथम सत्रमा राखिएको **नेपाली १** विषयको निरन्तरता हो ।

यो विषयको अध्ययन गरिसकेपछि विद्यार्थीहरू निम्न कार्यहरूमा सक्षम हुनेछन्

- शोधको सैद्धान्तिक ज्ञान गर्न,
- शोधको आधारभूत सैद्धान्तिक ज्ञानका आधारमा शोधप्रस्ताव गर्न र तदनुसार शोधकार्य गर्न,
- साहित्यिक रचनाहरूको विधा सिद्धान्तका सामान्य अध्ययन, ममन, चिन्तन गर्न,
- साहित्यिक रचनाको मर्म बोध गर्न,
- साहित्यिक रचनाको अध्ययनका आधारमा समाजशास्त्रीय जीवन जगतको अवलोकन गर्न ।

## विषय सूची

एकाई र शीर्षक	विषय वस्तु	अध्यापन घण्टा
१. शोधको परिचय	१.१.ज्ञानआर्जनका विविध प्रक्रियाका सन्दर्भमा वैज्ञानिक प्रक्रिया शोधको अर्थ, परिभाषा, आवश्यकता वा प्रयोजन र महत्व १.२.शोधका प्रकार : विषय, समय, स्थान, लक्ष्य, प्रयोजन र अनुसन्धाताका आधारमा तथा .शोधार्थी / अनुसन्धाताका लक्षण र योग्यता १.३.शोधक्षेत्रको छनोट : छनोट विधि (पूर्वज्ञान, अनुभव, पूर्वकार्यको समीक्षा, विज्ञहरूसँगको परामर्श) १.४.शोधप्रस्ताव : सैद्धान्तिक परिचय, शोधप्रस्तावको आवश्यकता र महत्व	२४
२. शोधप्रस्तावको अङ्ग वा सङ्गठन तथा सङ्गठन निर्माणको विधि	२.१.शीर्षक, समस्याकथन, उद्देश्यकथन, प्राक्कल्पना र पूर्वकार्यको समीक्षा २.२ शोधको महत्व, शोधको सीमाङ्कन, सामग्री सङ्कलन विधि, २.३ शोधको सैद्धान्तिक आधार र शोधको ढाँचा, शोधविधि, शोधपत्रको सम्भावित रूपरेखा, समयवधि र लागत २.४ सन्दर्भ कृतिसूची तथा शोधप्रस्तावका अङ्गहरूका बीचको सम्बन्ध	६
३. सामग्री सङ्कलनका विधि	३.१. पुस्तकालयीय कार्य : पुस्तकालयको प्रयोगको ज्ञान र टिपोट विधि ३.२.क्षेत्रकार्य : पूर्वतयारी, प्रश्नावलीको परिचय र प्रकार ३.३ बन्द, खुला तथा मिश्रित प्रश्नावलीको निर्माणविधि ३.४.प्रश्नावलीको उपयोग, क्षेत्रकार्य : भ्रमणअवलोकन, अन्तर्वार्ता, शोधनी र टिपोट टिपोट विधि ३.५ सर्वेक्षण र प्रयोगशालीय कार्य	७.५
४. सामग्रीको अध्ययन विश्लेषण	४.१ सम्पादन व्यवस्थापन, कोडीकरण, वर्गीकरण, ४.२ शोधपत्र लेखन : शोधपत्रको भाषाशैली, ४.३ वर्णन, विश्लेषण, तुलनाप्रतितुलना, खण्डनमण्डन, अन्वयव्यतिरेक, निष्कर्षण र सामान्यीकरण ४.४ अध्याय, शीर्षक, उपशीर्षक, उपउपशीर्षकहरूको योजना, निर्माण र तिनका बीचको अन्तःसम्बन्ध ४.५ शीर्षक उपशीर्षकअन्तर्गत अनुच्छेदयोजना र उद्धरणको प्रयोग र पादटिप्पणी ( टिप्पणी)	७.५
५. शोधपत्र वा प्रबन्धको सङ्गठन वा स्वरूपको परिचय	५.१ शोधपत्रको आवरणपृष्ठ, निर्देशकको सिफारिस, मूल्याङ्कन समितिको मूल्याङ्कनपत्र, कृतज्ञताज्ञापन, संक्षिप्त शब्दसूची, चित्रसूची, सङ्केतसूची आदि । ५.२ शोधप्रबन्धको अन्त्य भागका सन्दर्भ सामग्री सूची, पारिभाषिक शब्दसूची वा अनुक्रमणिका, परिशिष्टको निर्माण तथा परिमार्जन, टङ्कन, छपाइशुद्धि, गातावन्दी, प्रस्तुति र अन्तर्वार्ता ५.३ कृतिसमीक्षा : तीन घुम्ती उपन्यासको कथावस्तु, पात्रविधान, ५.४ परिवेश, भाषाशैली ५.५ उद्देश्य र शीर्षकीकरण ५.६ बहुलाकाजीको सपना, शीर्षकीकरण, कथावस्तु, पात्रविधान, ५.७ परिवेश, संवाद, भाषाशैली,	२१

एकाई र शीर्षक	विषय वस्तु	अध्यापन घण्टा
	५.८ उद्देश्य र शीर्षकीकरण ५.९ कविता : कालीण्डकी कविताको (विधा तत्वका आधारमा समीक्षा) ५.१० कविता : मैनवतीको शिखा (विधा तत्वका आधारमा समीक्षा) ५.११ निबन्ध : जयभूँडी (विधा तत्वका आधारमा समीक्षा) ५.१२. निबन्ध : पहाडीजीवन (विधा तत्वका आधारमा समीक्षा) ५.१३. कथा : कर्तव्य (विधा तत्वका आधारमा समीक्षा) ५.१४ कथा : एउटा बूढो भ्वाइलेन आशावरीको धुनमा (विधा तत्वका आधारमा समीक्षा)	
	<b>जम्मा अध्यापन घण्टा</b>	<b>४८</b>

### पाठ्यपुस्तक

१. कोईराला, विश्वेश्वर प्रसाद. तीन घुम्ती , साभा प्रकाशन, काठमाडौं ।
२. मैनाली, गुरु प्रसाद. नासो (सम्बद्ध अंशमात्र) साभा प्रकाशन, काठमाडौं ।
३. मल्ल, विजय. बहुला काजीको सपना, साभा प्रकाशन, काठमाडौं ।
४. देवकोटा, लक्ष्मीप्रसाद. लक्ष्मी निबन्ध संग्रह (सम्बद्ध अंशमात्र), साभा प्रकाशन, काठमाडौं ।
५. घिमिरे, माधवप्रसाद. काली गण्डकी,
६. विकल, रमेश. एउटा बूढा भ्वाइलेन आशावरीको धुनमा
७. अर्याल, भैरव. जय भूँडी (सम्बद्ध अंश मात्र)
८. शेरचन, भूपी. मैन वतीको शिखा

### सहायक पाठ्यपुस्तक

१. शर्मा, मोहनराज र लुइटेल् खरोन्द्र प्रसाद. शोध विधि, काठमाडौं ।
२. बन्धु, चुडापणि. अनुसन्धान र प्रतिवेदन, रत्न पुस्तक भण्डार, काठमाडौं ।
३. बुम्स, विन्ध र वाटेन खँट पी. फन्डामेन्टल्स अफ गुड राइटिङ्ग, ए हयाण्डबुक अफ मडर्न एटोरिक, लाइन
४. जोशी, कुमारबहादुर. पाश्चात्य साहित्यका केही प्रमुखवाद, साभा प्रकाशन, काठमाडौं ।
५. थापा, मोहन हिमांशु. साहित्य परिचय, साभा प्रकाशन, काठमाडौं ।

Course Number	Course Title	Credit Hours
<b>STAT 105</b>	<b>Introductory Statistics</b>	<b>3</b>

### Objective

Upon completion of the course, students will be able to

- explain the concepts of the descriptive and inferential statistics, general principles of statistics, possibility theory, and time series analysis.
- apply the basic knowledge of statistics in various fields of development studies;
- use techniques of collecting data and handling them through various statistical tests;
- Handle the satisfied data in pragmatic manner.

This course will be continued with the STAT 205 Applied Statistics in the 2<sup>nd</sup> Year, 1<sup>st</sup> Semester.

### Contents

Unit and Title	Topics	Lecture Hours
1. Review of elementary concepts	Meaning, scope and limitations of Statistics, types of data	4.5
2. Data collection	Census/sampling, types of samplings (Random and Non-random), tools of data collection (Questionnaire, interview and observation)	4.5
3. Measures of central tendency	Arithmetic mean, median, partition values and mode	6
4. Measure of dispersion	Concept of dispersion, measure of dispersion (range, inter quartile range, mean deviation, variance, standard deviation and coefficient of variation)	4.5
5. Concept of skewness and kurtosis	Karl Peason's coefficient of skewness, measure of skewness based on percentile, interpretation of skewness and kurtosis	3
6. Correlation and regression analysis	Meaning and type of correlation, coefficient of correlation and its calculation by Karl Pearson's and Spearman's rank method. Meaning of regression, regression equations, regression coefficients and their interpretation	6
7. Time series analysis	Meaning and components of time series, measurement of time series by free hand, semi average and least square methods, measurement of seasonal variation by simple average method.	4.5
8. Index numbers	General rules and problems in construction of whole sale price index and cost of living index number. Index number calculation: unweighted price index by simple aggregative method, simple average of price relative methods, weighted price index by weighted aggregative and weighted average of price relative methods. Cost of living index number by aggregative expenditure and family budget methods.	6
9. Elementary probability theory and normal distribution	Concept of events and probability, addition and multiplication theorems, concept of normal distribution	6
10. Concept of estimation and test of hypothesis		3
	<b>Total Lecture Hours</b>	<b>48</b>

### Required References

Chandan, J. S. 1999. Statistics for Business and Economics. Vikas Publishing Pvt. Ltd. India.  
 Sharma, P. K. and A. K. Chaudhary. 2001. Statistical Mehods. Khanal Books Prakashan.

**Sk-8 Session Plan**