Functional English		Semester	1
Course Code	**BVU101**	CIE Marks	100
Teaching Hours/Week (L: T:P:S)	1:0:0:2	SEE Marks	0
Total Hours of Pedagogy	25(08 hour per Modules)	Total Marks	100
Credits	02	Exam Hours	03 Hours
Examination type (SEE)	**Theory**		

Course Learning Objectives:

CLO1: Identify and understand the different functions of language in various contexts.

CLO2: Develop proficiency in using grammatical structures and vocabulary for everyday communication.

CLO3: Improve reading comprehension skills to grasp the meaning of different types of texts.

CLO4: Enhance writing skills to communicate effectively in different writing styles.

CLO5: Develop listening and speaking skills for clear and confident communication.

CLO6: Apply functional English skills in real-world situations, such as the workplace or social settings.

Module-1

Grammar and usage:

The following points of grammar and usage have been selected from the reading passages.
Grammar:

- Parts of Speech
- Nouns
- Pronouns
- Adjectives
- Adverbs
- Prepositions
- Conjunctions
- Interjections
- Determiners
- Modals and Auxiliaries
- Phrases, Idioms, and Figures of Speech
- Clauses and Conditionals
- Simple, Compound, and Complex Sentences

Module-2

- Tenses
- Present Simple, Present Progressive, Present Perfect
- Past Simple, Past Progressive, Past Perfect
- Future Simple, Future Progressive, Future Perfect
- Homophones, Homonyms, Homographs
- Prefixes and Suffixes
- Antonyms and Synonyms
- Rhyming words
- Compound words
- Clauses and Conditionals
- Active and Passive voice/ Direct and Reported Speech

Module-3

- Sentence Development
- Capitalization
- Punctuation
- Further Punctuation
- Dictionary Surfing
- Fluency of Speech
- Confusing Words
- Ambiguity in English
- Writing Techniques
- Gerunds, Participles and Infinitives
- Creating Sentences
- Linking words (to like because although, instead of, if, as, since, who, which that, when, however, despite)
- Reported speech, statements, questions (yes/no)
- Use of preposition (fill in the blanks)

Module-4

Functional writing and study skills

This module helps the learner to write descriptive and narrative paragraphs, letters, reports notices etc. and also practice skills in note-making

1. Paragraph writing

- Describing objects
- Describing people
- Narrating events, stories

2. Letter writing
- Application for leave
- Application for jobs
- Asking for information from various agencies (e.g. Last date for getting prospects; price
- of items before placing doers etc.)

3. Note making
4. Ending (punctuation, spelling, appropriate vocabulary, structures)

Module-5

Learning Creative communication and storytelling skills

- Creative Speaking
- Storytelling
- Speeches
- Personal essays
- Poetry
- Short fiction- short stories, blog pieces, etc.
- Wring using picture/ word/ sentence prompts
- Speculative/ Imaginative essays
- Academic essays
- Structuring events for narratives
- Short Plays

Composition:
Writing styles: Narrative, descriptive, expository, persuasive.
Essay writing: Different types (argumentative, compare-contrast, cause-effect).
Creative writing: Short stories, poems, scripts

Literature:
Poetry: Different forms (sonnet, haiku, ballad), analysis, interpretation. Drama: Plays, characters, plot, themes. Fiction: Novels, short stories, genres (mystery, romance, science fiction). Non-fiction: Essays, biographies, autobiographies, articles.

Course outcome (Course Skill Set)

At the end of the course, the student will be able to:

CO 01: Students will improve their English language skills by developing clear and accurate communication in various contexts, enhancing proficiency in listening, speaking, reading, and writing, and increasing fluency and grammatical accuracy in spoken English.

CO 02: Upon successful completion of this course, learners will have developed the ability to write clear and coherent texts for different purposes, such as emails, reports, and presentations. They will also improve their ability to understand spoken English in various accents and speeds. Furthermore, learners will gain confidence in speaking English in different situations, such as group discussions, presentations, and interviews.

Assessment Details (both CIE and SEE)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The minimum passing mark for the CIE is 40% of the maximum marks (20 marks out of 50) and for the SEE minimum passing mark is 35% of the maximum marks(18 out of 50 marks). The student is declared as a pass in the course if he/she secures a minimum of 40% (40 marks out of 100) in the total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together.

Continuous Internal Evaluation: 100 Marks:

1. Two assignments;
2. First assignment after 30% completion of the syllabus for 50 marks
3. Second assignment after completion of 70% of the syllabus for 50 marks
4. The test after completion of 100% syllabus is conducted for 100 marks.
   Two questions are to be set for each module, there are 10 questions with 20 marks each. Each question may or may not have a sub-question. The students have to answer for 100 marks (05 full questions).
5. The sum of the two assignments is scaled down to 50.
6. The marks scored in the test shall be scaled down to 50.
7. The final marks of the course/subject is the sum of the Assignment marks and test marks

(Teacher may conduct the quiz or presentation or other suitable method of assignment in place of two or one assignment mentioned)

Semester-End Examination:

SEE is Not Applicable

Web links and Video Lectures (e-Resources):

https://nptel.ac.in/courses/109106129

Suggested Learning Resources:

Books

1. Effective Communication Skills, Kulbhushan Kumar, Khanna Publishing House
2. Business Communications, Varinder Bhatia, Khanna Publishing House

Activity-Based Learning (Suggested Activities in Class)/Practical-Based Learning

- Vocabulary building games: Word association, charades, and crossword puzzles.
- Grammar practice through games: Board games, quizzes, and error correction activities.
- Reading comprehension activities: Book clubs, debates, and summarizing articles.
- Writing workshops: Peer review, collaborative writing projects, and creative writing exercises.
- Listening activities: Dictations, audio comprehension exercises, and shadowing.

Basic Electrical and Electronics Engineering			Semester	1
Course Code	**BVU102**		CIE Marks	50
Teaching Hours/Week (L: T:P:S)	1:0:0:2		SEE Marks	50
Total Hours of Pedagogy	25 (each module 05 hours)		Total Marks	100
Credits	02		Exam Hours	03 Hours
Examination type (SEE)	**Theory**			

Course Learning Objectives:

CLO1: Understand basic electrical quantities, laws, and circuits.
CLO2: Analyse and design simple DC and AC circuits.
CLO3: Understand the principles of electromagnetism and magnetic circuits.
CLO4: Explain the operation and characteristics of electrical machines.
CLO5: Comprehend the characteristics of semiconductor devices (diodes, transistors).
CLO6: Analyse and design basic electronic circuits (amplifiers, rectifiers).

Module-1

Electrical Engineering Fundamentals

- **Basic Electrical Quantities:**
  - Current, voltage, power, energy
  - Ohm's Law, Kirchhoff's Laws
  - Resistance, resistivity, Power, Energy, conductance, Capacitance, Inductance
- **Circuit Analysis:**
  - Series and parallel circuits
  - AC circuits (phasors, impedance, power factor)
  - Single Phase A.C Circuits
  - Three Phase Circuits

Module-2

Electrical Engineering Fundamentals
Magnetic Circuits:

- Magnetic fields, magnetic flux, permeability
- Electromagnetic induction, Faraday's Law
- Transformers

Electrical Machines:

- DC machines (motors and generators)
- AC machines (induction motors, synchronous machines)

Module-3

Electronics Fundamentals

- **Semiconductor Devices:**
  - Diodes (junction diode, Zener diode)
  - Bipolar Junction Transistors (BJT)
  - Field Effect Transistors (FET) and Silicon controlled rectifier (SCR)
- **Amplifiers:**
  - Transistor amplifiers (common emitter, common collector, common base)
  - Operational amplifiers (ideal op-amp, inverting and non-inverting amplifiers)

Module-4

Digital Electronics:

- Number systems (binary, octal, hexadecimal)
- Logic gates (AND, OR, NOT, NAND, NOR, XOR, XNOR)
- Combinational circuits (adders, subtractors, multiplexers, demultiplexers).

Module-5

Measurements and Instrumentation

- Basic measuring instruments (ammeter, voltmeter, ohmmeter)
  - Oscilloscope
  - Bridge circuits (Wheatstone bridge, Kelvin bridge)
  - Analog Meters
  - Digital Meters
  - Transducers and sensors

Course outcome (Course Skill Set)

At the end of the course, the student will be able to:

CO 1: Understand and apply fundamental electrical concepts: Students should be able to comprehend and utilize basic electrical quantities, laws, and theorems for circuit analysis.

CO 2: Analyse electrical circuits: Students should be able to analyse both DC and AC circuits, including circuit components, network theorems, and resonance phenomena.

CO 3: Comprehend electromagnetic principles: Students should understand the basics of magnetic circuits, electromagnetic induction, and their applications in electrical devices.

CO 4: Understand the operation of electrical machines: Students should have a basic knowledge of DC and AC machines, their principles of operation, and their applications.

CO 5: Analyse semiconductor devices and circuits: Students should be able to understand the characteristics of diodes, transistors, and other semiconductor devices, as well as their applications in basic electronic circuits.

CO 6: Comprehend digital electronics fundamentals: Students should have a foundational understanding of digital logic, number systems, and basic digital circuits.

Assessment Details (both CIE and SEE)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The minimum passing mark for the CIE is 40% of the maximum marks (20 marks out of 50) and for the SEE minimum passing mark is 35% of the maximum marks(18 out of 50 marks). The student is declared as a pass in the course if he/she secures a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together.

Continuous Internal Evaluation: 50 Marks

1. Two assignments tests;
2. First assignment after 30% completion of the syllabus for 50 marks
3. Second assignment after completion of 70% of the syllabus for 50 marks(May be quiz or other method of assignments)
4. The test after completion of 90 % syllabus is conducted for 100 marks.
5. The sum of the two assignments is scaled down to 25.
6. The marks scored in the test shall be scaled down to 25.
7. The final marks of the course/subject is the sum of the Assignment marks and test marks

(The class teacher may conduct the quiz/presentations/other suitable methods of assignment in place of two or one test)

Semester-End Examination: 50 Marks

Question paper pattern:

• The question paper will have ten full questions carrying equal marks.
• Each full question will be for 20 marks.
• There will be two full questions (with a maximum of four sub-questions) from each module.
• Each full question will have sub- question covering all the topics under a module.
• The students will have to answer five full questions, selecting one full question from each module.
Marks scored will be scaled down to 50 marks

Web links and Video Lectures (e-Resources):

https://archive.nptel.ac.in/courses/108/105/108105112/

https://nptel.ac.in/courses/122106025

Suggested Learning Resources:

Books

1. Basic Electrical Engineering by by M V Rao

2. Basic Electronics by M V Rao

Activity-Based Learning (Suggested Activities in Class)/Practical-Based learning

- Contents-related activities (Activity-based discussions)
- For active participation of students instruct the students to prepare Flowcharts.
- Organising group-wise discussions on topics.
- Quizzes and Discussions, Seminars and assignments.
- Electrical circuit experiments
- Electronics experiments
- Measurement and instrumentation experiments

	Engineering Material and Applications		Semester	1
	Course Code	**BVU103**	CIE Marks	50
	Teaching Hours/Week (L: T:P:S)	1:0:0:2	SEE Marks	50
	Total Hours of Pedagogy	25(05 hours per module)	Total Marks	100
	Credits	02	Exam Hours	03 Hours
	Examination type (SEE)	**Theory**		

Course Learning Objectives:

CLO1: Understand the fundamental concepts of materials science and engineering
CLO2: Correlate material properties with microstructure: Understand the relationship between the internal structure of materials and their macroscopic behaviour.
CLO3: Apply materials selection principles: Learn to choose appropriate materials for specific engineering applications based on required properties and constraints.
CLO4: Analyse the mechanical behaviour of materials: Study stress-strain relationships, elasticity, plasticity, fracture, fatigue, and creep.
CLO5: Understand the thermal properties of materials: Learn about heat capacity, thermal expansion, thermal conductivity, and phase transformations.

Module-1

GENERAL: Brief introduction to the subject metallurgy and its scope in the engineering field, classification of materials of industrial importance.

Properties of Engineering Materials

1. Properties- Mechanical, Electrical, Thermal, Chemical & Magnetic
2. Mechanical Property - Strength, Elasticity, Plasticity, Stiffness, Brittleness, Toughness, Hardness, Malleability, Machinability, Ductility, Resilience, Creep, Fatigue
3. Other Properties- Thermal Expansion, Thermal Conductivity, Electrical Conductivity, Corrosion, Magnetic.
4. Application: Video Lecture on working/importance of following machine components - Cams, Gears, Pulleys, Springs, Bolts & Fasteners, Shafts, Bearings and Couplings highlighting the significance of engineering materials.

Module-2

Classification, Properties, Composition and Application of Engineering Materials

1. Classification of Engineering Materials- Metal- Ferrous, Non-Ferrous and Nonmetals- Polymers, Ceramics.

Ferrous Metals – Properties, composition and applications of

2. Cast Iron & Types- Grey, White, Malleable
3. Applications: Video Lecture on Machine Tools and other relevant components highlighting the significance of Cast Iron in machine component manufacturing.

	Module-3
	Properties, composition and applications of Steel and Its Alloys 1. Steel –Types, Designation of steel, Types, 2. Plain Carbon Steel- Low (0.15-0.25%C), Mild (0.25%C), Medium (0.25-0.65%C), High Carbon (0.65-1.5%C) 3. Alloy Steel- Tool Steel, Tungsten steel, Stainless-Steel, High-Speed Steel 4. Application: Video Lecture on Automobile parts such as Chassis, Springs, axles and laminated springs; Machine Structure, Cutting Tools, and Highlight the significance of materials used in machine component manufacturing.
	Module-4
	Non-Ferrous Materials- Properties, composition and applications of 1. Aluminium and Aluminium Alloys – Duralumin, Y-Alloy, Magnalium, Hindalium. 2. Copper and Copper Alloys- Brass, Bronze, Gun Metal, lead, Tin. Bearing Metals. 3. Application: Video Lecture components manufactured using Aluminium, Aluminium Alloys, Copper and Copper alloys by Highlighting the significance of materials used. **Non-Ferrous Materials- Properties, composition and applications of** 1. Zinc Based Alloys – Solder, German silver; 2. Nickel Based Alloys – Inconel, Monel metals. 3. Applications: Video Lecture on Engine Components, Electrical Connectors and Cables, Zinc Coated Sheets, rivets, Refrigerator Components highlighting the significance of material used in machine component manufacturing.
	Module-5
	Heat treatment Process for Steels 1. Heat treatment- Purpose (modified properties after heat treatment), Types, a) Annealing (Ductility) b) Normalizing (Machinability) d) Hardening (Hardness) c) Tempering (reduce hardness/ brittleness) 2. Application: Video Lecture on various heat treatment methods used in industries and highlighting the significance of altered properties.

Course outcome (Course Skill Set)

At the end of the course, the student will be able to :

- **CO 1:** Classify and characterize different types of engineering materials (metals, ceramics, polymers, composites) based on their atomic structure, microstructure, and properties.
- **CO 2:** Correlate the microstructure of materials with their mechanical, physical, and chemical properties.
- **CO 3:** Select appropriate materials for specific engineering applications based on required properties and performance criteria.
- **CO 4:** Analyse the failure of materials in service and propose solutions to prevent such failures.
- **CO 5:** Understand the processing and manufacturing techniques for different materials.
- **CO 6:** Evaluate the environmental and economic impact of material selection and processing.
- **CO 7:** Heat treatment processes and their effects on material properties, Corrosion and its prevention methods.

Assessment Details (both CIE and SEE)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The minimum passing mark for the CIE is 40% of the maximum marks (20 marks out of 50) and for the SEE minimum passing mark is 35% of the maximum marks(18 out of 50 marks). The student is declared as a pass in the course if he/she secures a minimum of 40% (40 marks out of 100) in the total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together.

Continuous Internal Evaluation: 50 Marks:

1. Two assignments tests;
2. First assignment after 30% completion of the syllabus for 50 marks
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5. The sum of the two assignments is scaled down to 25.
6. The marks scored in the test shall be scaled down to 25.
7. The final marks of the course/subject is the sum of the Assignment marks and test marks **(The class teacher may conduct the quiz/presentations/other suitable methods of assignment in place of two or one test)**

Semester-End Examination: 50 Marks

Question paper pattern:

- The question paper will have ten full questions carrying equal marks.
- Each full question will be for 20 marks.
- There will be two full questions (with a maximum of four sub-questions) from each module.
- Each full question will have sub- question covering all the topics under a module.
- The students will have to answer five full questions, selecting one full question from each module.

Marks scored will be scaled down to 50 marks

Web links and Video Lectures (e-Resources):

https://nptel.ac.in/courses/112106293

Suggested Learning Resources:

Books

1. MATERIAL SCIENCE: RS Khurmi & RS Shedha
2. K. G. Budinski and M.K. Budinski, “Engineering Materials”, PHI India, 2002.

3. V. Raghavan, "Material Science and Engineering', PHI India, 2015.

4. U. C. Jindal, "Engineering Materials and Metallurgy", Pearson, 2011.

Activity-Based Learning (Suggested Activities in Class)/Practical-Based learning

- Contents-related activities (Activity-based discussions)
- For active participation of students instruct the students to prepare Flowcharts.
- Organising group-wise discussions on topics.
- Quizzes and Discussions, Seminars and assignments.

Aadalith Kannada - ಆಡಳಿತ ಕನ್ನಡ		Semester	1
Course Code	**BVU104**	CIE Marks	100
Teaching Hours/Week (L: T:P:S)	1:0:0:0	SEE Marks	00
Total Hours of Pedagogy	12 hours (2.5 hours per module)	Total Marks	100
Credits	01	Exam Hours	01 Hours
Examination type (SEE)	**Theory**		

Course Learning objectives: ಆಡಳಿತ ಕನ್ನಡ ಕಲಿಕೆಯ ಉದ್ದೇಶಗಳು:

CLO1: The course will enable the students to understand Kannada and communicate in the Kannada language.
ಈ ಕೋರ್ಸ್ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ಕನ್ನಡವನ್ನು ಅರ್ಥಮಾಡಿಕೊಳ್ಳಲು ಮತ್ತು ಕನ್ನಡ ಭಾಷೆಯಲ್ಲಿ ಸಂವಹನ ನಡೆಸಲು ಅನುವು ಮಾಡಿಕೊಡುತ್ತದೆ.

CLO2: Being a graduate student, introducing administrative Kannada.
ಪದವಿ ವಿದ್ಯಾರ್ಥಿಳಾಗಿರುವುದರಿಂದ ಆಡಳಿತ ಕನ್ನಡದ ಪರಿಚಯ ಮಾಡಿಕೊಡುವುದು.

CLO3: To create awareness among the students about the grammar of Kannada language.
ವಿದ್ಯಾರ್ಥಿಗಳಲ್ಲಿ ಕನ್ನಡ ಭಾಷೆಯ ವ್ಯಾಕರಣದ ಬಗ್ಗೆ ಅರಿವು ಮೂಡಿಸುವುದು.

CLO4: To introduce the rules in Kannada language structure.
ಕನ್ನಡ ಭಾಷಾ ರಚನೆಯಲ್ಲಿನ ನಿಯಮಗಳನ್ನು ಪರಿಚಯಿಸುವುದು.

CLO5: Errors found in Kannada language writing and their elimination. and introducing punctuation marks.
ಕನ್ನಡ ಭಾಷಾ ಬರಹದಲ್ಲಿ ಕಂಡುಬರುವ ದೋಷಗಳು ಹಾಗೂ ಅವುಗಳ ನಿವಾರಣೆ. ಮತ್ತು ಲೇಖನ ಚಿಹ್ನೆಗಳನ್ನು ಪರಿಚಯಿಸುವುದು.

CLO6: To create awareness about common applications.
ಸಾಮಾನ್ಯ ಅರ್ಜಿಗಳು ಬಗ್ಗೆ ಅರಿವು ಮೂಡಿಸುವುದು.

Module-1

1. Introduction, Necessity of learning a local language. Methods to learn the Kannada language. ಕನ್ನಡಭಾಷೆ - ಸಂಕ್ಷಿಪ್ತ ವಿವರಣೆ.
2. Easy learning of a Kannada Language: A few tips. Hints for correct and polite conservation, Listening and Speaking Activities, Key to Transcription
3. ವೈಯಕ್ತಿಕ, ಸ್ವಾಮ್ಯಸೂಚಕ/ಸಂಬಂಧಿತ ಸಾರ್ವನಾಮಗಳು ಮತ್ತು ಪ್ರಶ್ನಾರ್ಥಕ ಪದಗಳು - Personal Pronouns, Possessive Forms, Interrogative words
4. ಭಾಷಾ ಪ್ರಯೋಗದಲ್ಲಾಗುವ ಲೋಪದೋಷಗಳು ಮತ್ತು ಅವುಗಳ ನಿವಾರಣೆ.

Module-2

1.ನಾಮಪದಗಳ ಸಂಬಂಧಾರ್ಥಕ ರೂಪಗಳು, ಸಂದೇಹಾಸ್ಪದ ಪ್ರಶ್ನೆಗಳು ಮತ್ತು ಸಂ◌ಂಬಂಧವಾಚಕ ನಾಮಪದಗಳು - Possessive forms of nouns, dubitive question and Relative nouns.

2. ಗುಣ, ಪರಿಮಾಣ ಮತ್ತು ವರ್ಣಬಣ್ಣ ವಿಶೇಷಣಗಳು, ಸಂಖ್ಯಾವಾಚಕಗಳು - Qualitative, Quantitative and Colour Adjectives, Numerals.

3. ಕಾರಕ ರೂಪಗಳು ಮತ್ತು ವಿಭಕ್ತಿ ಪ್ರತ್ಯಯಗಳು -ಪಪ್ರಮಿ ವಿಭಕ್ತಿ ಪ್ರತ್ಯಯ - (ಆ, ಅದು, ಅವು, ಅಲ್ಲಿ)-Predictive Forms, Locative Case.

4. ಲೇಖನ ಚಿಹ್ನೆಗಳು ಮತ್ತು ಅವುಗಳ ಉಪಯೋಗ.

Module-3

1. ಚತುರ್ಥಿ ಎಭಕ್ತಿ ಪ್ರತ್ಯಯದ. ಬಳಕೆ ಮತ್ತು ಸಂಖ್ಯಾವಾಚಕಗಳು - Dative Cases, and Numerals
2. ಸಂಖ್ಯಾಗುಣವಾಚಕಗಳು ಮತ್ತು ಬಹುವಚನ ನಾಮರೂಪಗಳು - Ordinal numerals and Plural markers
3. ನ್ಯೂನ/ನಿಷೇಧಾರ್ಥಕ ಕ್ರಿಯಾಪದಗಳು ೬ ವರ್ಣ ಗುಣವಾಚಕಗಳು -Defective/Negative Verbs & Colour Adjectives

Module-4

1. ಅಪ್ಪಣೆ / ಒಪ್ಪಿಗೆ, ನಿರ್ದೇಶನ, ಪ್ರೋತ್ಸಾಹ ಮತು ಒತ್ತಾಯ ಆರ್ಥರೂಪ ಪದಗಳು ಮತ್ತು ವಾಕ್ಯಗಳು- Permission, Commands, encouraging and Urging words (Imperative words and sentences)
2. ಸಾಮಾನ್ಯ ಸಂಭಾಷಣೆಗಳಲ್ಲಿ ದ್ವಿತೀಯ ವಿಭಕ್ತಿ ಪ್ರತ್ಯಯಗಳು ಮತ್ತು ಸಂಭವನೀಯ ಪ್ರಕಾರಗಳು - Accusative Cases and Potential Forms used in General Communication
3. “ಇರು ಮತ್ತು ಇರಲ್ಲ” ಸಹಾಯಕ ಕ್ರಿಯಾಪದಗಳು, ಸಂಭಾವ್ಯಸೂಚಕ ಮತ್ತು ನಿಷೇಧಾರ್ಥಕ ಕ್ರಿಯಾ ಪದಗಳು – Helping Verbs “iru and iralla”, Corresponding Future and Negation Verbs
4. ಹೋಲಿಕೆ (ತರತಮ), ಸಂಬಂಧ ಸೂಚಕ, ವಸ್ತು ಸೂಚಕ ಪ್ರತ್ಯಯಗಳು ಮತ್ತು ನಿಷೇಧಾರ್ಥಕ ಪದಗಳ ಬಳಕೆ- Comparitive, Relationship, Identification and Negation Words

Module-5

1. ಕಾಲ ಮತ್ತು ಸಮಯದ ಹಾಗೂ ಕ್ರಿಯಾಪದಗಳ ವಿವಿಧ ಪ್ರಕಾರಗಳು -Different types of Tense, Time and Verbs
2. ದ್◌್, -ತ್, - ತು, - ಇತು, - ಆಗಿ, - ಅಲ್ಲ, -ಗ್,-ಕ್, ಇದೆ, ಕ್ರಿಯಾ ಪ್ರತ್ಯಯಗಳೊಂದಿಗೆ ಭೂತ, ಭವಿಷ್ಯತ್ ಮತ್ತು ವರ್ತಮಾನ ಕಾಲ ವಾಕ್ಯ ರಚನೆ - Formation of Past, Future and Present Tense Sentences with Verb Forms
3. ಸಂಭಾಷಣೆಯಲ್ಲಿ ದಿನೋಪಯೋಗಿ ಕನ್ನಡ ಪದಗಳು -Kannada Words in Conversation

Course outcome (Course Skill Set) ಕಲಿಕೆಯಿಂದ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ಆಗುವ ಅನುಕೂಲಗಳು ಮತ್ತು ಫಲಿತಾಂಶಗಳು

At the end of the course, the student will be able to:

CO 1: At the end of the course, the student will be able to understand Kannada and communicate in the Kannada language.
CO 2: To understand the necessity of learning of local language for a comfortable life.
CO 3: To speak, read and write Kannada language as per requirement.
CO 4: To communicate (converse) in the Kannada language in their daily life with Kannada speakers.
CO 5: To Listen and understand the Kannada language properly.
CO 6: To speak in polite conservation.

Assessment Details (both CIE and SEE)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The minimum passing mark for the CIE is 40% of the maximum marks (20 marks out of 50) and for the SEE minimum passing mark is 35% of the maximum marks(18 out of 50 marks). The student is declared as a pass in the course if he/she secures a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together.

Continuous Internal Evaluation: 100 Marks:

1. Two assignments;
2. First assignment after 30% completion of the syllabus for 50 marks
3. Second assignment after completion of 70% of the syllabus for 50 marks
4. The test after completion of 100% syllabus is conducted for 100 marks.
   Two questions are to be set for each module, there are 10 questions with 20 marks each. Each question may or may not have a sub-question. The students have to answer for 100 marks (05 full questions).
5. The sum of the two assignments is scaled down to 50.
6. The marks scored in the test shall be scaled down to 50.
7. The final marks of the course/subject is the sum of the Assignment marks and test marks
   (Teacher may conduct the quiz or presentation or other suitable method of assignment in place of two or one assignment mentioned)

Semester-End Examination:

SEE is Not Applicable

Web links and Video Lectures (e-Resources):

Suggested Learning Resources:
Books

1. ಪಠ್ಯಪುಸ್ತಕ : ಆಡಳಿತ ಕನ್ನಡ ಪಠ್ಯ ಪುಸ್ತಕ

   ಸಂಪಾದಕರು

   ಡಾ. ಎಲ್. ತಿಮ್ಮೇಶ

   ಪ್ರೊ. ವಿ. ಕೇಶವಮೂರ್ತಿ

   ಪ್ರಕಟಣೆ : ಪ್ರಸಾರಾಂಗ, ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ.

Activity-Based Learning (Suggested Activities in Class)/Practical-Based learning

- Contents-related activities (Activity-based discussions)
- For active participation of students instruct the students to prepare Flowcharts.
- Organising group-wise discussions on topics.
- Quizzes and Discussions, Seminars and assignments.

	Computing Skill and Digital Literacy		Semester	1
	Course Code	**BVU105**	CIE Marks	100
	Teaching Hours/Week (L: T:P:S)	1:0:2:2	SEE Marks	0
	Total Hours of Pedagogy	40 (Each Module 08 hours)	Total Marks	100
	Credits	03	Exam Hours	03 Hours
	Examination type (SEE)	**Theory**		

Course Learning Objectives:

CLO1: To give students an in-depth understanding of why computers are essential components in business, education and society.

CLO2: To provide exposure to understand the services provided by different Operating systems and basic commands in MS-DOS.

CLO3: To Provide hands-on use of Microsoft Office applications Word, Excel and Power Point. Completion of the assignments will result in MS Office applications knowledge and skills.

Module-1

Computer Fundamentals: Components of a computer system. Classification of computers. Types of computers. Generation of computers. Computer hardware and software. Input/output devices, internet and web surfing etc. Personnel Computers: PC, Primary & Secondary storage device, other peripherals used with PC.

Module-2

Introduction to Operating Systems: Goals & Structure of O.S, Basic functions, Batch, multiprogramming. Multitasking, time sharing, parallel, distributed & real -time O.S.

Concept of MS—DOS: Internal and External commands, path, prompt, rmdir, time, ver, vol, echo, chkdsk, diskcopy, label, scandisk, replace, format, fdisk, Windows – windows explorer, print manager, control panel etc.

Module-3

Data Communication & Networks: Communication Medias, Communication Modes, Goals of Networks, Types of Networks, Client/Server Computing, Network Topologies, MODEM, Gateways, Multiplexer, Bridges, Routers. Ethernet. Internet, WWW etc.

Module-4

MS OFFICE: Focus is on teaching how to use Office suite properly.

a. MSWord: The following features are explored for MSWord
i. Templates using existing templates and creating new templates.
ii. Complex Tables, Use of Pictures with text flowing around the picture, Sectioning, Captioning, Cross Referencing, Table of Contents.
iii. Using Equation editor for complex equations, Multiple Column format documents.

Module-5

MS Excel: Using complex equations for combining data, VLOOKUP function, Excel charts, Excel Sort, Excel Filter, Pivot Table.

MS PowerPoint: Using Animations and Transitions.

Course outcome (Course Skill Set)

At the end of the course, the student will be able to:

CO 1: Will be able to understand computing devices and reinforce computer vocabulary, particularly with respect to personal use of computer hardware and software, the Internet, networking and mobile computing.

CO 2: Digital content creation: Creating various digital content (documents, presentations, multimedia).

CO 3: Data management: Organizing and managing digital files and information.

Basic troubleshooting: Identifying and resolving common computer problems.

CO 4: Practice effective digital communication through email, social media, and other platforms.

CO 5: Understand basic computer networking concepts and be able to share and collaborate digitally.

CO 6: Adhere to digital ethics and online safety practices.

CO 7: Operating systems: Using different operating systems (Windows, macOS, Linux).

Assessment Details (both CIE and SEE)

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   Two questions are to be set for each module, there are 10 questions with 20 marks each. Each question may or may not have a sub-question. The students have to answer for 100 marks (05 full questions).
5. The sum of the two assignments is scaled down to 50.
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7. The final marks of the course/subject is the sum of the Assignment marks and test marks

(Teacher may conduct the quiz or presentation or other suitable method of assignment in place of two or one assignment mentioned)

Semester-End Examination:

SEE is Not Applicable

Web links and Video Lectures (e-Resources):

https://www.youtube.com/watch?v=auEzl72Ty-Y

https://bharatskills.gov.in/Home/StudyMaterial?var=JIxDimHuy9umQFlgP7QPkA==

Suggested Learning Resources:
Books

1. V Rajaraman, Fundamentals of Computers, PHI, Sixth Edition, 2014
2. Fundamentals of Computers, E. Balaguruswamy, McGraw Hill, 2014.
3. Information Technology: The Breaking Wave, Dennis P Curtain, McGraw-Hill, 2014.
4. Introduction to Computers, Peter Norton, McGraw Hill, 2010.
5. Fundamentals of Information Technology, Durgesh Pant, Mahesh Kumar Sharma,
6. Laxmi Publication, 2008.

Activity-Based Learning (Suggested Activities in Class)/Practical-Based learning

- Basic computer skills: Proficiency in operating systems, word processing, spreadsheets, and presentation software.
- Internet and research skills: Effective use of search engines, online resources, and information evaluation.
- Digital communication: Email, social media, online collaboration tools, and digital etiquette.
- Digital citizenship: Understanding online safety, privacy, copyright, and ethical use of technology.

Computer Aided Engineering Drawing			Semester	1
Course Code	**BVUL106**		CIE Marks	100
Teaching Hours/Week (L: T:P:S)	1:0:2:2		SEE Marks	0
Total Hours of Pedagogy	40(Each Module 08 hours)		Total Marks	100
Credits	03		Exam Hours	03 Hours
Examination type (SEE)	**Theory**			

Course Learning Objectives:

CLO1: To understand the basic principles and conventions of engineering drawing
CLO2: To use drawing as a communication mode
CLO3: To generate pictorial views using CAD software
CLO4: To visualize engineering components

Module-1

Basic elements of Drawing

1.1 List the different drawing instruments and application
1.2 Convention of lines and its application (Thick, Thin, Axis etc.,)
1.3 Practice use of drawing instruments
1.4 Representative fraction
1.5 Scales - Full Scale, Reduced Scale and Enlarged Scale
1.6 Dimensioning
   a. Aligned system and Unidirectional system in the Sketches
   b. Chain dimensioning and Parallel dimensioning
1.7 Construct different polygons

Module-2

Introduction to Projections

2.1 Introduction to Projections-Principle Planes of Projection and Principle Views
2.2 Introduction to First angle and Third angle method, their symbols
2.3 Projection of points in All 4 Quadrants
2.4 Projection of Lines
   a) Parallel to both the planes
   b) Parallel to one and Perpendicular to another
   c) Parallel to one and Inclined to another
2.5 Projection of plane surfaces.
   a) Parallel to one plane and Perpendicular to other two
   b) Planes Perpendicular to one plane and inclined to the other
(Resting on Edge, Corner, Inclined to HP And VP)

Module-3

Exposure To CAD

3.1 Introduction to CAD- Hardware requirements.
3.2 Various CAD software available
3.3 Familiarization of CAD window - Commands like New file, Saving the file, Opening a existing drawing file, Creating templates
3.4 Setting up new drawing: Units, Limits, Grid, Snap. Standard sizes of sheet.
3.5 Selecting Various plotting parameters such as Paper size, paper units, Drawing orientation, plot scale, plot offset, plot area, print preview
3.6 Draw basic entities like Line, Circle, Arc, Polygon, Ellipse, Rectangle, Multiline Dimensioning, Inserting text Applying constraints - horizontal, vertical, parallel, concentric, perpendicular, symmetric equal, collinear
3.7 Insert title block for the drawing and take the Print out
3.8 Create objects by applying constraints and convert the objects to full scale , reduced scale and enlarged scale
3.9 Apply copy, mirroring, array, fillet and trim on the object created

Module-4

Orthographic projections

4.1 Introduction to orthographic, Isometric projections
4.2 Conversion of pictorial view into Orthographic Views
(USING SKETCH BOOK AND CAD)

Module-5

Isometric projections

5.1 Introduction to Isometric Projections
5.2 Isometric Scales and Natural Scale
5.3 Isometric View and Isometric Projection
5.4 Conversion of Orthographic Views into Isometric
(USING SKETCH BOOK AND CAD)

CAD Drafting

6.1 Draw different types of 2D/3D modeling entities using viewing commands, to view them (Problems solved in chapter no 3 and 4 i.e Orthographic, isometric projection).
6.2 2D/3D modeling for Thread profiles, nuts, bolts, studs, setscrews, washer, Locking arrangements.
(USING CAD)

Course outcome (Course Skill Set)

At the end of the course, the student will be able to:

CO 1: Draw and communicate the objects with definite shape and dimensions
CO 2. Recognize and Draw the shape and size of objects through different views

CO 3. Develop the lateral surfaces of the object
CO 4. Create a Drawing views using CAD software.
CO 5. Identify the interdisciplinary engineering components or systems through its graphical representation.

Assessment Details (both CIE and SEE)

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(Teacher may conduct the quiz or presentation or other suitable method of assignment in place of two or one assignment mentioned)

Semester-End Examination:

SEE is not applicable

Web links and Video Lectures (e-Resources):

https://nptel.ac.in/courses/112102101

Suggested Learning Resources:

Books

- S.N. Lal, & T Madhusudhan:, Engineering Visulisation, 1st Edition, Cengage,Publication
- Engineering Drawing- Basant Agarwal, TMH
- D. M. Kulkarni, A. P. Rastogi, and A. K. Sarkar (2009), Engineering Graphics with AutoCAD, PHI Learning Private Limited, New Delhi.
- Jolhe, Dhananjay (2006), Engineering Drawing: With an Introduction to CAD, Tata Mc Graw Hill, India.

Activity-Based Learning (Suggested Activities in Class)/Practical-Based learning

Hands-on Practice:

- Dedicate ample time to practicing with the CAD software. Experiment with different tools and features.
- Start with simple exercises and gradually increase complexity.
- Utilize tutorials and online resources to guide your learning process.