

Academic Council Meeting No. and Date : 30th April 2021

Agenda Number : 04 Resolution Number : 3 & 4 / 4.11 & 4.27



**Vidya Prasarak Mandal's
B. N. Bandodkar College of
Science (Autonomous), Thane**



**Syllabus for
Programme : Bachelor of Science
Specific Programme :
Ability Enhancement Course
[F.Y.B.Sc. (English)]
Basic English Learning Course and
Scientific English Writing
Level 4.5**

CHOICE BASED GRADING SYSTEM

Revised under NEP

From academic year 2023 - 2024

Preamble

Initially, the course is offered to learners enrolled in the B.Sc. (Interdisciplinary Science) Programme. But under NEP, it is introduced to first-year B.Sc students as an Ability enhancement course for credit 2 .

In today's globalized world, effective English communication is crucial for personal, academic, and professional advancement. The Basic English Learning Course offers a foundational grasp of English, covering grammar, vocabulary, pronunciation, and everyday communication. Conversely, the Scientific English Writing course is tailored for those in scientific fields, emphasizing clear articulation of complex ideas, proper scientific paper structuring, and adherence to specific writing conventions and ethical standards. Together, these courses provide a holistic English learning experience, catering to both general and specialized needs, whether you're a beginner or a professional seeking to refine scientific writing skills.

Course Outcome: after learning Basic English and scientific English writing students can --

- Understanding of English grammar, Vocabulary expansion, phonetics, and pronunciation and use of common English phrases and idioms
- Proficiency in using technical and scientific vocabulary appropriately.
- Mastery of grammar and syntax specific to scientific writing.
- Ability to structure scientific papers, including abstracts, introductions, methods, results, and discussions.
- Understanding of how to cite sources and format references following specific scientific style guidelines (e.g., APA, MLA, Chicago).
- Capability to write clear and concise scientific abstracts, research proposals, laboratory reports, and scientific articles
- Skill in presenting complex scientific information in an organized and coherent manner.
- Development of critical thinking and analytical skills necessary for scientific writing.
- Understanding of ethical considerations in scientific writing and research.
- Enhancement of editing and proofreading skills to ensure accuracy and clarity in scientific documents.

Eligibility: Passed 12th standard (HSC) of Maharashtra State Board / CBSE / ICSE board.

Duration: 1 Year (level 4.5)

Mode of Conduct: Offline

Offline lectures / online lectures

Total Credits for the course in 4.5 level: 2

Eligibility For certificate if exit at level 4.5 (by completing F. Y. B.Sc credit framework)

Name of the Degree course: FY.B.Sc

Discipline/Subject:

BOS Chairperson: Dr. Moses Kolet

VPM's B.N.Bandodkar College of Science (Autonomous), Thane
F.Y.B.Sc. (Indian Knowledge System) under NEP

Structure of Programme

Semester I

	Course Code	Ability Enhancement Course Course Title	No. of hours	Credits
AEC	23BUEN1T01	Basic English Learning Course	30	2
Total			30	2

Semester II

	Course Code	Ability Enhancement Course Course Title	No. of hours	Credits
AEC	23BUEN2T01	Scientific English Writing	30	2
Total			30	2

Semester I Syllabus						
SEMESTER ICode 23BUEN1T01	Course Title Basic English Learning Course				Credits 2	No. of lectures in hrs.
Course Outcomes: Learners will be able to: CO1 Explain the concepts and rules related to sentences and their kinds, parts of speech, infinitives and participles, commands, requests, and questions, and punctuation (full stop, comma, colon, semicolon, dash) with appropriate examples. - L2 CO2 Describe and discuss the usage of verbs and their kinds, articles, prepositions, conjunctions, tenses and their kinds, and the use of correct verb forms in English grammar. - L2 CO3 Explain the concepts, rules, and usage of sentence transformation, antonyms, synonyms, homophones, homonyms, collocations, active and passive voice, and degrees of comparison with suitable examples. - L2 CO4 Describe and discuss the principles and techniques of reading comprehension, vocabulary learning, conversation skills, essay writing, short speeches, dialogue writing, and mock interview preparation for effective communication. - L2 Grading will be as 3: High (>60%), 2: Moderate (40%-60%), 1: Low (<40%), 0: No mapping						
	PO1	PO2	PO3	PO4	PO5	PO6
CO1	0	0	1	0	0	0
CO2	0	0	1	0	0	0
CO3	0	0	1	0	0	0
CO4	0	0	1	0	0	0
Unit I: Basic English	1.1 Basic English grammar Noun, pronoun, verb, adverb, adjective, preposition, conjunction, interjection Tenses, kinds of tenses Using of correct verb forms					
	1.2 Sentences: a. Subject predicate and kinds (assertive, declarative, interrogative, Imperative, exclamatory) b. Types of sentences (simple, compound, complex) c. Sentence- Fragment (link) d. Run-on sentence and Comma splices, semicolon (link) e. Punctuations. f. articles- a, an, the g. Vocabulary: Word Formation: Prefix, Suffix, Conversion, compounding, abbreviation, idioms					
	1.3 Clause and phrase: a. Voice- Active & passive (identify and change) b. Clauses- Independent and dependent; coordination and subordination					
	1.4 Transformation - Antonyms, Synonyms - Homophones, Homonyms - Collocation - Active and passive voices - Degree of comparison					
	15					

Unit II: Comprehension on English	2.1 Figures of speech 4L Simile, metaphor, personification, apostrophe, Antithesis, epigram, Metonymy, Synecdoche, Hyperbole, Euphemism, Irony, Pun, Interrogation, Exclamation, Climax and anticlimax 2.2 Tutorial activities 6L a. Reading b. Vocabulary learning c. Conversation d. Essay writing E. Short speeches f. Dialogues Writing g. Mock interviews h. Visual data interpretation- graphs, charts, figures, maps, animations i. Drafting formal mail	15
--	--	-----------

SEMESTER II - Syllabus

Course Code 23BUEN2T01	Course Title Scientific English Writing				Credits 2	No. of lectur es in hrs. 30
Course Outcomes: Learners will be able to: CO1 - Elaborate on different types of articles and IMRaD pattern of Research article - L2 CO2 - Explain the importance of aesthetics of research article. - L2 CO3 - Describe interpretation and explain report writing. - L2 CO4 - Identify and practice use of ICT, websites and softwares used in research. - L2 Grading will be as 3: High (>60%), 2: Moderate (40%-60%), 1: Low (<40%), 0: No mapping						
	PO1	PO2	PO3	PO4	PO5	PO6
CO1	3	2	1	0	1	2
CO2	3	2	1	0	1	1
CO3	3	2	1	0	1	1
CO4	3	2	2	0	1	1
Unit I: Scientific Writing	Types of research articles: 8L 1. Review article 2. Original research article 3. Book chapter 4. Book review 5. Conference abstract 6. Short communications/note 7. case study 1.1 Organization of original research article: writing Abstract, Introduction, Materials & Methods, Results, Discussion and Conclusion 3L 1.3 Importance of tables, figures and schematics in a research article 1L 1.2 Review of Literature 2L 1.3 Bibliography and different citation formats 1L 1.4 Importance of statistics in research 1L					15

Unit II: Interpretation , Report writing and use of IT in research	1 Interpretation: Meaning of Interpretation, Why Interpretation? Technique of Interpretation, Precautions in interpretation. 2.2 Report writing: Different steps in writing report, Layout of research report, Types of reports, Plagiarism, Poster & Oral Presentation. 2.3 Use of ICT in research: List of software available for Pre- data, data and post data analysis 2.4 Demonstration of Use of websites and software useful in Research: Google scholar, Shodhganga, Mendeley, NDLI, JSTOR, working with Microsoft excel, introduction to SPSS, use of software for plagiarism check	15
--	---	-----------

Curriculum mapping for the Undergraduate Degree Programme F.Y.B.Sc IKS

	SEMESTER – I	Course imparts Employability (EM), Entrepreneurship (EN), Skill Development (SD)			Course integrates with Professional Ethics (PE), Gender Equity (GE), Human Value (HV), Environmental Sustainability (ES)			
Course Code	Major Course Title	EM	EN	SD	PE	GE	HV	ES
23BUEN1T01	Basic English Learning Course	✓	-	-	✓	-	-	-
01	<i>Total</i>	1	0	0	1	0	0	0

	SEMESTER – II	Course imparts Employability (EM), Entrepreneurship (EN), Skill Development (SD)			Course integrates with Professional Ethics (PE), Gender Equity (GE), Human Value (HV), Environmental Sustainability (ES)			
Course Code	Major Course Title	EM	EN	SD	PE	GE	HV	ES
23BUEN2T01	Scientific English Writing	✓	✓	✓	✓	✓	-	-
01	<i>Total</i>	1	1	1	1	1	0	0