

Sri Venkateswara University, Andhra Pradesh B.E./B.Tech CIVIL Sem 2 syllabus

English

ENT01 English

Credits: 3

Unit-I Effective Communication: Role and Importance of Communication, Features of Human Communication, Process of Communication, Interpersonal Communication, Barriers, Types-Verbal, Non-Verbal.

Unit-II Grammar: Articles, prepositions, tenses, reported speech, idioms and phrases

Unit-III Listening Skills: Process of Listening, Tips for Effective Listening,

Speaking Skills: Basics of Spoken English, English Sounds, Rhythm and Intonation Telephonic Skills, Group Communication Reading Skills: Developing Reading Skills, Reading Strategies, Reading Comprehension,

Writing Skills: Paragraph Writing, Essay Writing, E-writing, Job applications, Reports. Resume and Letter Writing.

Unit-IV

Soft Skills: Tem Work Skills, Interview Skills, Problem- Solving Skills Adoptability Skills, Presentation Skills and Group Discussions.

Unit- V Stories from Delight and Wisdom (An Anthology of Short Stories)

- 1. The Gift of Magi By O. Henry
- 2. The Diamond Necklace by Guy De Maupassant
- 3. My Brother, My Brother by Norah Burke
- 4. The Open Window by Saki

5. The Child by Premchand

Text Books:

 Oxford guide to Effective writing and Speaking by John Seely, Oxford University Press, 2013, ISBN- 978-0-19-871393-7
Delight and Wisdom published by Orient Blackswan, 2009, ISBN: 978-81-250-3716-3

Reference Books:

1. David Green, Structure and Composition in English, Macmillan Publishers India Limted.

2. Communicative English by E. Suresh Kumar, P. Sreehari, Orient BalckSwan, 2009. ISBN: 13:9788125032502

3. English and Soft Skills by S P Dhanavel published by Orient Blackswan, 2013. ISBN 9788125039808

4. Personality Development and Soft Skills by Barun K. Mitra published by Oxford University Press. 2012. ISBN : 13:97280198066217

Basic Electrical Engineering

EET01 Basic Electrical Engineering

Credits: 3

UNIT-I

Basic Circuit Concepts: Basic circuit elements R, L and C— Classification of circuit elements, voltage and current sources— Kirchoff's laws—Star-delta and Delta to Star transformations, Network reduction techniques, Simple problems

UNIT-II

DC Circuits: DC Circuit analysis by mesh current method and Nodal voltage method, Superposition theorem, Thevenin's theorem and maximum power transfer theorem –Application to simple DC circuits

UNIT-III

AC Circuits: Average value—RMS value—form factor, crest factor---jnotation, Phasor diagrams, reactance, impedance and admittance, active power, reactive power, apparent power, power triangle.— Expression for real power in ac circuit—Analysis of simple---series and parallel circuits

UNIT-IV

DC Machines: Principle of operation of dc generator, emf equation, types of generators, principle of operation of dc motor, Back EMF, torque equation of dc motor, Illustrative examples, applications dc motors

UNIT-V

Transformers: Single phase transformer –principle of operation types of transformers—emf equation, transformer on load **Induction Motors:** principle of operation of 3-phase induction motor, types of 3-phase induction motors Principle of single phase induction motor, types , applications of 3-phase and single phase induction motors

Illuminations: Introduction, Laws of Illumination, Lighting calculations, Design of lighting schemes

Text Books:

 Network analysis by A Sudhakar, ShyamMohan (Tata McGrawHill)
Basic Electrical Engineering by DP Kothari, IH Nagrath (Tata McGrawHill)

References:

1. Electrical Technology – E. Hughes (University Press)

2. Electrical Circuits - Joseph Edminister (TMH Series)

Engineering Mathematics - II

Unit - 1

Matrices: rank of a matrix-solution of system of linear equationseigen values,vectors-cayleyhamilton theorem-quadratic forms-diagonalization.

Unit - 2

Vector Calculus: Gradient, Divergence, Curl of a vector and related properties - line, surface,

volume integrals - Green's, Stokes's and Gauss Divergence theorems and its applications.

Unit - 3

Fourier Series: Fourier series-even and odd functions, periodic functions-half range sine and cosine series-harmonic analysis.

Unit - 4

Special Functions I: Gamma and Beta functions-series solutions of differential equationsordinary points.

Unit - 5

Special Functions II: Bessel function - recurrence formulae generating function for Jn(X)-Lengender polynomials - recurrence formulae - generating function for Pn(X) - Rodrigue's formula - orthogonality of Lengender polynomials.

Text Books:

1. B S Grewal, Higher Engineering Mathematics, 40th Edition, Khanna Publications, 2007.

2. M K Venkataraman, Engineering Mathematics, National Publishing Company, Chennai.

3. B V Ramana, Higher Engineering Mathematics, 6th Reprint, Tata McGraw-Hill, 2008.

4. Bali and Iyengar, Engineering Mathematics, 6th Edition, Laxmi Publications, 2006.

Visit www.goseeko.com to access free study material as per your university syllabus