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MAKE GOOD USE OF IT FOR TEST & EXAM

WHATSAPP DMAINMAN ON: 08166457230

WHATSAPP JERRY ON: 09062867680

2ND SEMESTER COURSE OUTLINE

MTS 102

- ✓ FUNCTION OF A REAL VARIABLE
- ✓ GRAPH OF A REAL VARIABLE
- ✓ LIMITS & CONTINUITY OF FUNCTIONS OF REAL VARIABLE
- ✓ TECHNIQUE OF DIFFERENTIATION & AND ITS APPLICATIONS
- ✓ EXTREMUM FROM CURVES SKETCHING
- ✓ INTEGRATION
- ✓ APPLICATIONS OF INTEGRATION

MTS 104

- INTRODUCTION TO VECTORS
- APPLICATIONS OF VECTORS
- THE GEOMETRY OF CIRCLE
- CONIC SECTION
- DYNAMICS I
- DYNAMICS II

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MEE 102

- GENERAL ENGINEERING WORKSHOP SAFETY
- ENGINEERING MEASUREMENT
- INTRODUCTION TO ENGINEERING MATERIALS
- BENCH WORK AND FITTING PRACTICES
- MACHINING
- WELDING
- AUTO MOBILE
- REFRIGIRATION AND AIR CONDITIONING
- WOOD WORK

PHY 102

- ❖ **ELECTROSTATICS:** conservation law of electric charges, electrons and electrostatics, coulomb's law, electric field and forces, electric field lines, electric dipoles, charged Particles in an electric field, GAUSS' law and its applications, electric potentials, electric potentials due to single charge, electric potential due to dipole, electric potentials due to continuous charge distribution, equipotential surfaces.
- ❖ **CONDUCTORS AND CURRENTS:** electric current resistors and resistance, electric power, capacitors in series and

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parallel, energy stored in capacitors and electric field energy, Gauss' law in dielectric.

❖ **MAGNETISM:** magnetic field, magnetic field lines and magnetic flux, motion of charged particle in magnetic field, magnetic force on a current carrying conductor, ampere's law, Biot-svart law, electromagnetic induction inductance, Maxwell's equation, mutual inductance, electromagnetic waves and its application, oscillation.

GNS 106

PART 1 ----- PHILOSOPHY AND LOGIC

- + INTRODUCTION TO PHILOSOPHY
- + PHILOSOPHY AS NATIONAL INQUIRY
- + BRANCHES OF PHILOSOPHY
- + METHODS IN PHILOSOPHY
- + SCHOOLS OF THOUGHT IN PHILOSOPHY
- + AFRICAN PHILOSOPHY
- + THE NATURE OF LOGIC
- + SYMBOLIC LOGIC
- + FALLACIES

PART 2----- ISSUES IN SCIENCE AND TECHNOLOGY

- PHILOSOPHY OF SCIENCE
- UNDERSTANDING PHILOSOPHY, SCIENCE, TECHNOLOGY & CULTURE
- AFRICAN, CULTURE AND TECHNOLOGY CHANGE

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- **ETHICS, SCIENCE AND TECHNOLOGY.**

GNS 102

- _ • reading and reading comprehensionc
- _ • .reading skills.2019.2020.doc
- _ • reading for reviews.
- - writing_a_critical_review.metu.pdf
- _ • mod 3 review article 1.pdf
- _ • mod 3 review article 2.pdf
- - • mod 4 WRITING SKILLS I. The Writing Process.pdf
- _ • mod 4. writing reports resource.docx
- _ • mod 5. Structuring Effective Sentences.pptx
- - • mod 5.2 2sentence transformation. worksheet 1.docx
- - • mod 5.2.1 sentence transformation info sheet.docx
- - • mod 6.1 Paragraphing 1.Writing Effective Paragraphs.pptx
- - • mod 6.2 paragraphing 2. developing support paragraphs.pdf
- - • mod 7.1 STRUCTURING YOUR ESSAY .spidergrams +outlines.docx

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- _ • mod 7.2 intro + conclusion.pdf
- - • mod 7.3 structuring your essay parts of an essay annotated worksheet.docx
- _ • mod 8a. improving Drafts Capitalization..ppt
- _ • mod 8b. improving drafts Punctuation..pptx

CHE 102

-  **Organic chemistry:** nomenclature and classes of organic and purification of organic compounds; qualitative and quantitative organic chemistry; stereo chemistry; determination of structure of organic compounds;
-  **Electronic theory in organic chemistry;** saturated hydrocarbons; alkanes. Unsaturated hydrocarbons; alkenes, alkynes and aromatics.
-  **Functional group;** carbonyls, halides, carboxylic acids and hydroxyl.
-  **Periodic table and periodic properties:** periodic law. Moseley's law, Valence Forces; structure of Solids; molecular and ionic forces.
-  **Chemistry of selected metals and non-metals Quantitative analysis.**

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BIO 102

- ❖ **Generalized survey of the animal kingdom:** based mainly on the study of similarities and differences in external features; ecological adaptation of animals; structural, functional and evolutionary study of protozoans, coelenterates, Platyhelminthes, nematodes, annelids, arthropods, echinoderms and mollusks;
- ❖ **Evolutionary sequence:** in the form and functions of protochordates and various classes of vertebrates.
- ❖ **Introduction to ecology:** simple ecological facts in terrestrial and aquatic habitats and their relationship between an organism and its environment.

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CSC 102

- History of Computers
- Characteristics of a Computer System
- Introductory to Programming
- Strategies and techniques for application development
- structured programming
- problem decomposition and organization
- basic debugging skills
- visual basic programming language

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