1. **English**
   - Use English language effectively in spoken and written forms.
   - Comprehend the given texts and reply appropriately.
   - Talk with a bit of luck in formal and casual contexts.
   - Enrichment of comprehension and fluency.
   - Gaining confidence in using language

2. **MATHEMATICS**

   After gaining knowledge of this course student must be able to

   • Write the matrix illustration of a hard and fast of linear equations and to investigate the answer of the gadget of equations

   • Find the Eigen values and Eigen vectors which encounter below linear ameliorations

   • Discover the intense values of features of variables with/ without constraints.

   • Capable of become aware of whether or not the given first order de is exact or no longer.

   - Capable clear up higher order de's and follow them for fixing some real international troubles

3. **Mathematical Methods**

Course Outcomes:

 After learning the contents of this course the student must be able to

 • Use Laplace transform techniques for solving DE's

 • Evaluate integrals using Beta and Gamma functions

 • Evaluate the multiple integrals and can apply these concepts to find areas, volumes, moment of inertia etc. of regions on a plane or in space.

• Evaluate the line, surface and volume integrals and converting them from one to another

4. Engineering Physics :

Course Outcomes:

After finishing touch of this course the pupil is able to

• Recognize the significance of light phenomena in skinny movies and backbone.

• Research precept, running of numerous laser structures and light propagation through optical fibers.

• distinguish diverse crystal structures and apprehend atomic packing factor.

• know the various defects in crystals.

5. Engineering Chemistry:

Course Outcome

After getting to know this path scholar will have

• Information approximately water utilized in industries (boilers and many others.) and for drinking functions is useful; for this reason chemistry of tough water, boiler problems and current techniques of softening difficult water is brought.

• Knowledge of galvanic cells, electrode potentials, attention cells is important for engineers to apprehend corrosion problem and its control; additionally this expertise enables in expertise modern bio-sensors, gas cells and enhance them.

• The issues related to corrosion are widely known and the engineers must be aware of those problems and also how to counter them.

• Plastics are substances used very extensively as engineering substances. An expertise of residences in particular bodily and mechanical houses of polymers /plastics / elastomers helps in deciding on appropriate substances for extraordinary purposes.

• A board understanding of the more crucial fuels hired on a large scale is essential for all engineer to recognize electricity – associated troubles and resolve them.

The expertise to be had now, destiny engineers must know at the least some of the superior materials which are turning into to be had.

6. Computer Programming & Data Structures:

Course Outcome

After complete information of this direction scholar have an ability to do.
• Perception of operation of a cpu, perception of an algorithm and computational manner, enhancing and executing programs in linux.
• Knowledge branching, iteration and data illustration using arrays.
• Modular programming and recursive answer method.
• Knowledge of suggestions and dynamic reminiscence allocation
• Knowledge of miscellaneous factors of c.
• Comprehension of file operations.

7. Engineering Drawing

OUTCOMES:

1. The objective is to introduce the use and the utility of drawing instruments and to make the scholars assemble the polygons, curves and diverse varieties of scales.

2. The student might be capable of apprehend the want to extend or reduce the size of gadgets in representing them.

3. It introduce orthographic projections and to project the factors and lines parallel to 1 aircraft and inclined to different.

4. It makes the students to attract the projections of the traces inclined to both the planes.

5. The objective is to make the students draw the projections of the aircraft willing to each the planes.

6. It makes the students the draw the projections of the plane inclined to each the planes.

7. The objective is to represent the object in 3-D view through isometric views. The scholar can be able to constitute and convert the isometric view to orthographic view and vice versa.

8. Computer Programming Lab

Outcomes:

1. Ability to design and test programs to solve mathematical and scientific problems.

2. Ability to write structured programs using control structures and functions.

3. Able to write program in C to solve the problem either mathematical or any other query.
4. Get an ability to do implement linear data structure such as Lists, Stacks, and Queues.
5. At the end of this course student can evaluable to implement programs and methods on simple searching and sorting.

9. Engineering Physics / Engineering Chemistry Lab.

Engineering Physics LAB

OUTCOMES:

1. The student is expected to learn from this laboratory course the concept of error and its analysis.

2. It also allows the student to develop experimental skills to design new experiments in Engineering. With the exposure to these experiments the student can compare the theory and correlate with experiment.

3. Student has an ability to understand LED and LASER sources.

4. He gain knowledge of Energy gap of a material of p-n junction.

5. Student get understand about Wave length of light and characteristics of a solar cell.

ENGINEERING CHEMISTRY LAB:

OUTCOMES:

1. The student is expected to learn from this laboratory course the concept of error and its analysis.

2. It also allows the student to develop experimental skills to design new experiments in Engineering. With the exposure to these experiments the student can compare the theory and correlate with experiment.

3. He is able do instrumental methods on colorimetry, documentary, potentiometric.

4. Student has an ability to prepare aspirin and Thiokol rubber.

5. Student can able to do adsorption of acetic on charcoal.

10. English Language Communication Skills Lab.

11. IT Workshop / Engineering Workshop:

Outcomes:

On the stop of the direction, the pupil will be capable of:

• observe and practice on system tools and their operations.

• They do exercise on production of components the use of workshop trades which include pluming, becoming, carpentry, foundry, residence wiring and welding.

• They get information to pick out and practice suitable gear for one of kind trades of engineering tactics along with drilling, cloth disposing of, measuring, and chiseling.

• Practice the fundamental electric engineering expertise for residence wiring and get a potential to do practice on it.