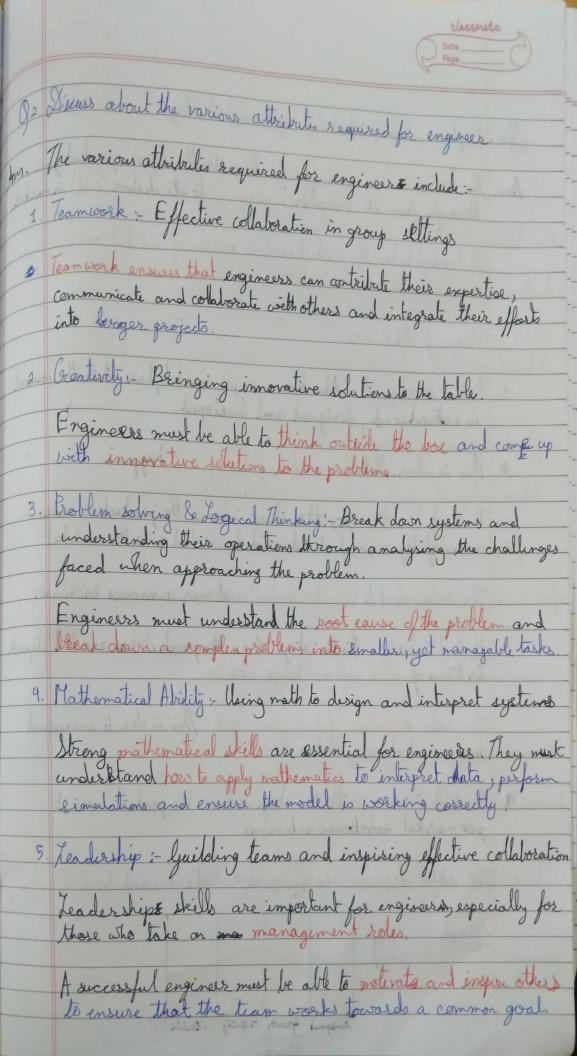
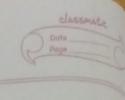
POF Important Questions I Explain about steam pyramideducational model structure applied in that integrales Science, Technology, Engineering, Art and Mathematics, into a holistic approach to teaching and learning. The model's structure is designed to enhance creativity and innovation while reinforcing the technical skills traditional implasized in STEM education Application of STEAM inteaching and learning: Integrating Ast with STEM-. STEAM differs from STEM by adding Ast, which encompasses creative displicit disciplines such as visual arts, music, design and performing arts. · This type of model encourages students to apply creativity in technical fields, which leads to innovative thinking and broader problem-solving capabilities. 2. Pyramid Structure of Learning Levels: STEAM Pgramid visually represent the interconnection of different subjects in STEAM aducation. Each level shows students how to integrate scientific, mathemetical and creative approaches across different fields At the trase have of the pyramid, where care subjects like biology, chemistry physics and mathematics. At aper At aper of pyramid, and is incorporated, showing creative support to scientific & technological subjects.

3. Hands-on and Experiential Learning : STEAM approach emphasizes on experimental learning, where students engage in hands on projects, simulations and experiments that bridge the gap between theory and practice. It encourges artere engagement & participation rather than Models are built by applying engineering principles, apply mathematics to calculate enorgy efficiency, use technology to simulate real-world conditions and incorporate artistic element to make their designs visually appealing. 4. Creativity & Innovation in Broblem Solving &-· The creative aspect of the STEAM model encourages students to think beyond conventional solutions, fortering innovations Apply artistic techniques such as design thinking, visualization and all thetics in fields like engineering and technology. 5. Encouraging highlery hearning and Adaptibility · STEAH aducation emorphology fosters an attitude of lifeling learning, as students are encouraged to continuously explore new knowledge and integrate various disriplines. . It helps students adapt to changes in technology and society, as they develop both technical and creative skills Pyramid:



J3. Explain about product life cycle and its stages Ans. The Products hipe (yele (PLC) describes the stages a product goes through from its inception (beginning) to its decline (end) in market. It highlights how the product evolves interns of market acceptances, sales growth and competitive challenges. Stages of PLC are: Product Development - Also known as pre-market phase where the product is instruduced, designed and developed. . This is when all the research and divelopment happens. 2. Broduct browth : Its the stage where the product is successfully manufactured and launched into the market The sales start to accelerate as customer awareness increases 3. Product Maturity - Its the stage where the product has reached itsped in terms of sites and market panetration The sales & continue but at slover rate. This is due to increased market competitors. 4. Product Decline: Its the stage where the product boses its The sales decrease sharply and product's demand decreases Dentopment Growth Haturity Becline

On Demonstrate the relation between web, nather also, science and technology Ins. I Relation between ash, ratheration, received and technology are 1 Art & Mathematics: - Maths helps articl cake at balanced de brantiful works "Concepts like proportions to geometries are in postant in painting and arte architecture. 2. At & Science: Art can visualize scientific ideas that beare hard to explain with words · Both fields nake use of inagination and creativity 3. Art & Technology: Technology uses artistic disigns to applain model · Encourages cheativety in problem solving 4 Mathematics & Science: Mathematics is the language of science which helps in data menalysis and theory testing. · Scientific formulas Edquations are based on nathematical formulas. 5. Science & Technology: - · Technology applies scientific knowledge to create new sol · Advances in technology enable better scientific research and discoveries. 6. Mathematics & Technology: Technology relies on moths for design and problem solving · Fields like engineering and computer science use math to create safe & efficient systems.



Qs. Explain about ABET

Ans. ABET stands for Acceledatation Board for Engineering and Technology.

It is a non-profit organisation responsible for according (give credit to) post secondary administransystems/programs in applied and natural science, computing, engineering etc.

1) Purpose of ABET:

Ensures that educational programs meet quality standards, which help graduates prepare for professional practice.

It focuses more on outcomes & rather than just course conte

2) Accreditation Griteria:

· In 1996, ABE T introduced Engineering Gitura 2000 (EC2000), which emphasizes learning outcomes.

Programs must demonstrate that students achieve specific skells and knowledge by graduation.

3) Learning Outcomes:

· An ability to apply knowledge of science, nothernatics and engineering

· An ability to design and conduct experiments, as well as analyse brintyrellate

· An ability to identify, formulate and solve complex problems.

· An ability to communicate effectively

Broad understanding of impact of engineering solutions in debal and social context.

