

# SILVER OAK COLLEGE OF ENGINEERING & TECHNOLOGY

## MECHANICAL ENGINEERING DEPARTMENT

### Mid Semester Exam 1 Syllabus - Summer - 2017

Date: 06/01/2018

Name of Subject : Entrepreneurship  
Subject Code : 2181923  
Semester & : 8<sup>th</sup> (Div. A, B, C, D, E, F,  
Division G)

#### **Percentage of Mid Semester Exam**

**Syllabus: 30 %**

<b>Chapter No.</b>	<b>Topic Name</b>
1	Entrepreneurship: Concept, knowledge and skills requirement; characteristic of successful entrepreneurs; role of entrepreneurship in economic development; entrepreneurship process; factors impacting emergence of entrepreneurship; managerial vs. entrepreneurial approach and emergence of entrepreneurship.
2	Starting the venture: generating business idea - sources of new ideas, methods of generating ideas, creative problem solving, opportunity recognition; environmental scanning, competitor and industry analysis;

Mr. Jogi Goghri  
Subject Coordinators

Dr. Pina Bhatt  
Prof. Mit K. Shah  
HODs, Mech. Engg. Dept.

**SILVER OAK COLLEGE OF ENGINEERING & TECHNOLOGY**  
**MECHANICAL ENGINEERING DEPARTMENT**

**Name of Subject: RENEWABLE ENERGY ENGINEERING**

**Subject Code: 2181910**

**Semester: VIII**

**Branch: Mechanical Engineering Department**

**Name of Faculty: Abhishek Shah**

**MID SEM-I SYLLABUS**

<b>Chapter No.</b>	<b>Topic</b>
<b>1</b>	<b>Scenario of Renewable Energy (RE) Sources:</b> Needs of renewable energy, advantages and limitations of RE, present energy scenario of conventional and RE sources
<b>2</b>	<b>Solar Energy:</b> Energy available from the sun, spectral distribution, solar radiation outside the earth's atmosphere and at the earth's surface, solar radiation geometry, Instruments for solar radiation measurements, empirical equations for prediction of availability of solar radiation, radiation on tilted surface
<b>3</b>	<b>Wind Energy:</b> Energy available from wind, basics of lift and drag, basics of wind energy conversion system, effect of density, angle of attack and wind speed, windmill rotors, horizontal and vertical axes rotors, drag, lift, torque and power coefficients, tip speed ratio, solidity of turbine.

**Subject Coordinator**

**Abhishek B. Shah**

**Head of Department**

**Dr. Pina Bhatt**

**Prof. Mit Shah**