

## **School of Engineering & Applied Sciences**

### **Diploma Automobile Semester IV Major Assignment**

#### **Important Instructions to Student:**

1. Last date for Assignment Submission – **30-May-2020**
2. This assignment carries major **weightage of 50 Marks**. Kindly prepare it very carefully and in a very detailed manner. For any help in this regard, kindly contact your faculties.
3. Front Page of Assignment should clearly include details like:
  - a. Your Name
  - b. UID Number
  - c. Subject
  - d. Class
  - e. Semester

In the event of no such information, we may not be able to assign marks for your assignment, for which responsibility lies with students.
4. You can write and submit assignment through any of the following options:
  - a. Handwritten Assignment – Prepare softcopy of your assignment through suitable apps and send the assignment as one PDF to your respective faculty as mentioned above.
  - b. Typed Assignment – Prepare Assignment with following font setting and submit the assignment to your respective faculty as mentioned above.
    - i. Font Type – Times New Roman or Arial
    - ii. Headings – Font Size 14
    - iii. Text (Except Heading) – 12
    - iv. Normal Margin and Line Spacing maximum 1.15
5. After this lockdown ends, you all have to submit the physical assignment copies to your respective Faculties. So, keep the assignment carefully for submission.
6. While submitting assignment through email, kindly use subject line as Name of the Programe\_Name of Course/Branch\_Semester\_Name o the the Subject. For Example B.Tech.\_Mechanical\_IV\_Theory of Machines

<b>ENGLISH COMMUNICATION AND LIFE SKILLS-IV Prof. Rakhi Pande</b>		<b>Mode of Submission :</b> <a href="https://forms.gle/SehR8qrq2gETE2mT6">https://forms.gle/SehR8qrq2gETE2mT6</a> (Link will be open from 21st May, 2020 up to 30th May, 2020, Submit it within time limit, after that no submission will be accepted)
1.	Explain All Forms Of Tenses In Detail	
2.	Explain 4 Stages Of Team Building In Detail	
3.	Explain The Following Interview: a. Panel interview b. Group interview c. Stress interview d. Exit interview e. Technical interview	
4.	Explain the Parts Of Speech In Detail	
5.	Explain The All Degree forms Of In Detail	
<b>AUTOMOTIVE ELECTRONICS Prof. Kamlesh L Patel</b>		<b>Mode of Submission :</b> <a href="mailto:patelkamleshkumar81@gmail.com">patelkamleshkumar81@gmail.com</a> (Link will be open from 21st May, 2020 up to 30th May, 2020, Submit it within time limit, after that no submission will be accepted)
1.	Explain The Following Term: a. Fuel gauges b. speedometer c. Odometer d. Techometer e. warning light sensors	
2.	Explain The Types of Ignition systems.	
3.	Explain Spark Plug characteristics, material, types, plug fouling.	
4.	Explain Lighting system of vehicle.	
5.	Explain Principles, Construction & working of lead acid battery.	

<b>AUTOMOBILE SAFETY AND REGULATION</b> <b>Prof. Kamlesh Patel</b>		<b>Mode of Submission :</b> <a href="mailto:patelkamleshkumar81@gmail.com">patelkamleshkumar81@gmail.com</a> (Link will be open from 21st May, 2020 up to 30th May, 2020, Submit it within time limit, after that no submission will be accepted)
1.	Explain as per government norms discuss about safety regulation.	
2.	Explain Importance of ergonomics in automotive safety and Human impact tolerance.	
3.	Explain The Following Term: a. Seat belt b. Automatic seat belt tightener system c. Air bags d. Electronic system for activating air bags e. Collapsible steering column	
4.	Explain Active safety and passive safety.	
5.	Explain crumble zone.	
<b>CHASSIS BODY AND TRANSMISSION-I</b> <b>Prof.Kamlesh Patel</b>		<b>Mode of Submission :</b> <a href="mailto:patelkamleshkumar81@gmail.com">patelkamleshkumar81@gmail.com</a> (Link will be open from 21st May, 2020 up to 30th May, 2020, Submit it within time limit, after that no submission will be accepted)
1.	Explain Hydromantic transmission, Fully automatic transmission, Semi automatic transmission.	
2.	Explain Continuous variable transmission (CVT) – operating principle, basic layout and operation, Advantages and disadvantages.	
3.	Explain Types of gear box.	
4.	Explain types of clutches.	
5.	Explain Various types of forces and moments.	
<b>FUEL AND LUBRICANTS</b> <b>Prof. Kamlesh Patel</b>		<b>Mode of Submission :</b> <a href="mailto:patelkamleshkumar81@gmail.com">patelkamleshkumar81@gmail.com</a> (Link will be open from 21st May, 2020 up to 30th May, 2020, Submit it within time limit, after that no submission will be accepted)
1.	Explain Measurement of Various Properties of Fuels & Lubricant.	
2.	Explain alternative fuels.	
3.	Describe the gradation of fuel and lubricating oil.	
4.	Explain the types and uses of fuel and lubricants.	
5.	Explain the various additives used in automobile fuel.	

NOTE: After completing your assignments, contact your respective faculty member and submit the assignment for assessment.

