### Day | Aim | Act
--- | --- | ---
CW-40 | L0 Intro | Hand out: L0 Intro (Intro) (WEB-Site)

| CW-41 | L1b | Questions, Q-L1b
--- | --- | ---
Mon 19-09-30 | Basic principles of Diesel Technology
(S7.101)
1.1 Combustion
1.2 Air ratio; Lambda (\(\lambda\))
1.3 Diesel Combustion Process
1.4 Injection Principle
1.5 Full load curve
1.6 Ideal Combustion

| CW-41 | L1b | Hand out: A0 + A1 + A2 (WEB-Site)
--- | --- | ---
Mon 19-10-07 | Administration of the lesson:
A0 Dates + Sequence
A1 Schedule
A2 Feedback-List

- **Add. download**
  - Report 'B-Diesel-Seminar'
    (Basics to Diesel Technology)
    SDa_L1_B-DIESEL_**.pdf
CW-43 L1d  
Mon 19-10-21  
9.30 – 9.45 (S7.101)  
9.45 - 11.00 (S7.101)  

**Question:** Q-L1d  
4 EDC-Functions (ff)  
4.5.8 Smooth-Running  
4.5.9 Exhaust Gas Recircul.  
- High Pressure EGR  
- Low Pressure EGR  
Hot film Metering  

- Lena, Stefanos, Yichen  

- Slide 4-21 → p. 85  
- Slide 4-26 → p. 89  
- see Slide 1-23/24 → p. 24  
- Slide 4-28 → p. 91  

**Next Feedback Questions**

CW-44 L1a  
Mon 19-10-28  
9.30 – 9.45  
9.45 - 12.45 (S7.101)  

**Questions:** Q-L1a  
- Guest Lecturer: N. Schick  

L1a SW-Development  
- Software Life Cycle  
- Requirements  
- Software Architecture  
- Data Specification  
- Data Inconsistency  
- Software Build  

- Slide 4-30 → p. 92  
- Slide 4-32 → p. 94  
- Slide 4-37 → p. 98  

- Lena, Stefanos, Yichen  

- Slide 4-21 → p. 85  
- Slide 4-26 → p. 89  
- see Slide 1-23/24 → p. 24  
- Slide 4-28 → p. 91  

**Next Feedback Questions**

L1d  
11.15 – 12.45 (S7.101)  

4.5.10 Boost Pressure Control  
- VNT (Variable Nozzle Turbine)  
- High WG (Waste gate)  
4.5.11 Lambda-control  
Fuel Meanvalue Adapt.  
Full Load Smoke Limit.  
4.6 Total Torque Path  

**Next Feedback Questions**

CW-45 L3b  
Mon 19-11-04  
9.30 – 9.45  
9.45 - 12.45 (S7.101)  

**Questions:** Q-L3b  
- Guest Lecturer: N. Schick  

L3b Test Procedures  
- Test Principles  
- Testing Life Cycle  
- Test Levels  
- Test Methodologies  

- Kamrul, Neveen, Satish  

- Slide 4-30 → p. 92  
- Slide 4-32 → p. 94  
- Slide 4-37 → p. 98  

- Lena, Stefanos, Yichen  

- Slide 4-21 → p. 85  
- Slide 4-26 → p. 89  
- see Slide 1-23/24 → p. 24  
- Slide 4-28 → p. 91  

**Next Feedback Questions**

CW-46 L2  
Mon 19-11-11  
9.30 – 9.45  
9.45 - 11.00 (S7.101)  

**Questions:** Q-L2  
- Guest Lecturer: B. Steffan (BOSCH)  

L2 HW-Development Process  
Electronic engine control  
Overview of a modern hardware realization  

- Nikitha, Abdelhamid, Ilke  

- Slide 4-30 → p. 92  
- Slide 4-32 → p. 94  
- Slide 4-37 → p. 98  

- Lena, Stefanos, Yichen  

- Slide 4-21 → p. 85  
- Slide 4-26 → p. 89  
- see Slide 1-23/24 → p. 24  
- Slide 4-28 → p. 91  

**Next Feedback Questions**

L2 ff  
11.15 – 12.45 (S7.101)  

Management process  
Hardware development process  

- Kamrul, Neveen, Satish  

- Slide 4-30 → p. 92  
- Slide 4-32 → p. 94  
- Slide 4-37 → p. 98  

- Lena, Stefanos, Yichen  

- Slide 4-21 → p. 85  
- Slide 4-26 → p. 89  
- see Slide 1-23/24 → p. 24  
- Slide 4-28 → p. 91  

**Next Feedback Questions**
CW-47
L4a
Mon 19-11-18
9.30 – 9.45
+ 9.45 - 11.00
(S7.101)
Questions Q-L4a
Guest Lecturer: T. Bleile (BOSCH)
L4a Model based Air Systems
System Requirements Components Functionality of the Air System
Erazo, Imtiaz, Nitish
Hand out: Script L4a/b (+ WEB-Site)
Next Feedback Questions
CW-48
L4b
Mon 19-11-25
9.30 – 9.45
+ 9.45 - 11.00
(S7.101)
Questions Q-L4b
Guest Lecturer: T. Bleile (BOSCH)
L4b Model based Air Systems
Model based Charge Control
Marcos, Prithiv, Victor
Script L4b was already handed out in last lesson
Next Feedback Questions
Hand out: Script 'Flatness' (+ WEB-Site)
CW-49
L6
Mon 19-12-02
9.30 – 9.45
+ 9.45 - 11.00
(S7.101)
Questions Q-L6
Guest Lecturer: A. Fritsch (BOSCH)
L6 Diesel Particulates
Filter Strategy Types of Filters Sensoric PSA (AdBlue)
Sunder, Joshua, Akhil
Hand-out Script L6 (+ WEB-Site)
Regeneration Modes Energy demand Dynamics Software Structure Activation of Regener. Soot Load Calculation
Next Feedback Questions
ToDo 'SDa Q-L6' (+ WEB-Site)
CW-50
L8
Mon 19-12-09
9.30 – 9.45
+ 9.45 - 11.00
(S7.101)
Questions Q-L8
Guest Lecturer: A. Meiss (BOSCH)
L8 Calibration Methods
Overview to application tasks Calibration hardware
Frankleenpravin, Gabriel
Hand-out Script L8 (+ WEB-Site)
Sequences of calibration Automation of calibration Simultaneous Engineering
New Feedback Questions: ToDo 'SDa Q-L8' (+ WEB-Site)
Hint Test-Exams: Test-Exams α + γ (see WEB-Site)
**First Lesson in 2020:**

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Location</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>CW-03 L10a</td>
<td>Mon 20-01-13</td>
<td>BOSCH</td>
<td>Questions, Q-L; Hand out: Script L10a (+ WEB-Site)</td>
</tr>
<tr>
<td></td>
<td>9.30 - 9.45</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>9.45 - 11.00</td>
<td>(S7.101)</td>
<td></td>
</tr>
<tr>
<td>L10a</td>
<td></td>
<td></td>
<td>Lesson: SDa</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>a) Summary Lesson SDa and Exam Preparations</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>b) SDa &gt; Test-Exam α</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>c) SDa &gt; Test-Exam γ</td>
</tr>
<tr>
<td></td>
<td>11.15 – 12.45</td>
<td>(S7.101)</td>
<td>End of Lesson SDa in WS19/20</td>
</tr>
<tr>
<td>CW-04 L10b</td>
<td>Mon 20-01-20</td>
<td>BOSCH</td>
<td>Groups A - F: 8.15 - 10.25</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Groups G - L: 10.30 - 12.40</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Location: BOSCH - Stgt.-Feuerbach Wernerstr. 51</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Excursion to BOSCH (Invitation / Schedule / Maps) (+ WEB-Site: L10b)</td>
</tr>
<tr>
<td></td>
<td>8.15 - 10.25</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>10.30 - 12.40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CW-06 SDa</td>
<td>Mon 20-02-03</td>
<td></td>
<td>ASM-EXAM: 'System Design'</td>
</tr>
<tr>
<td></td>
<td>14.00-16.00</td>
<td>(S7.102 ?)</td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**
- **Questions Q-L**: Question-List for Lectures
- **Hand out Script L7**: Scripts for L7
- **ECU concept for Monitoring**: ECU system for monitoring
- **Feedback Questions**: Feedback on lectures

**Calendar:**
- **Mon 19-12-16 to Mon 19-12-23**: Lecture and lab dates
- **Mon 20-01-13 to Mon 20-01-20**: Lab dates
- **Mon 20-02-03**: Exam date