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| **Timetable for AI and Intelligent Robots Course** | | | | |
| **Week No** | **Week days** | **Dates** | **Time** | **Course contents** |
| Week 19 | Monday | 1/7/2024 | 10:10 – 12:00 | Lecture 0: Introduction1 |
|  | Monday | 1/7/2024 | 14:30 – 16:20 | Lecture 1: Introduction2 |
|  | Wednesday | 3/7/2024 | 10:10 – 12:00 | Lab 1: Installation of Oracle VM VirtualBox, Ubuntu 18.04, ROS Melodic |
|  | Wednesday | 3/7/2024 | 14:30 – 16:20 | Lecture 2: Robot Operating System |
|  | Friday | 5/7/2024 | 10:10 – 12:00 | Lecture 3: Robot platform and mobility |
| Week 20 | Monday | 8/7/2024 | 10:10 – 12:00 | Lecture 4: Internal sensors for mobility |
|  | Monday | 8/7/2024 | 14:30 – 16:20 | Lab 2: Robot Operating System: Part A |
|  | Wednesday | 10/7/2024 | 10:10 – 12:00 | Lecture 5: External sensors for navigation1+Lecture 6: External sensors for navigation2 |
|  | Wednesday | 10/7/2024 | 14:30 – 16:20 | Lecture 7: Robot navigation and path planning |
|  | Friday | 12/7/2024 | 10:10 – 12:00 | Lecture 8: Robot knowledge and mapping+Attached Robot Control Algorithms for Labs |
| Week 21 | Monday | 15/7/2024 | 10:10 – 12:00 | Lab 3: Robot Operating System: Part B |
|  | Monday | 15/7/2024 | 14:30 – 16:20 | Lab 4: Robot trajectory and velocity |
|  | Wednesday | 17/7/2024 | 10:10 – 12:00 | Lab 5: Laser scanner for navigation |
|  | Wednesday | 17/7/2024 | 14:30 – 16:20 | Lab 6: PID controller for robot navigation |
|  | Friday | 19/7/2024 | 10:10 – 12:00 | Lab 7: Fuzzy controller for robot navigation |
| Week 22 | Monday | 22/7/2024 | 10:10 – 12:00 | Lecture 9: Building robot behaviour |
|  | Monday | 22/7/2024 | 14:30 – 16:20 | Lecture 10: Robot software architecture |
|  | Wednesday | 24/7/2024 | 10:10 – 12:00 | Lecture 11: Typical Intelligent Robots of XJTU1 |
|  | Wednesday | 24/7/2024 | 14:30 – 16:20 | Lecture 12: Typical Intelligent Robots of XJTU2 |
|  | Friday | 26/7/2024 | 10:10 – 12:00 | Lab 8: Write the report about the Lab results |

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