

STUDY PROGRAMME CURRICULUM WOOD ENGINEERING

2024/2025

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|---------------------------------|---|
| Name of study programme | Wood engineering |
| Programme characteristics | |
| Type | higher professional |
| Cycle | bachelor |
| University of Ljubljana members | • Biotechnical Faculty, Jamnikarjeva ulica 101, 1000 Ljubljana, Slovenija |

Year 1, obvezni

| | University Course Code | Course title | Lecturers | Contact hours | | | | | Individual student work | Total hours | ECTS | Semesters | Elective |
|----|------------------------|--|----------------------------|---------------|---------|-----------|--------------------|----------------------|-------------------------|-------------|------|--------------|----------|
| | | | | Lectures | Seminar | Tutorials | Clinical tutorials | Other forms of study | | | | | |
| 1. | 0625529 | Technical mechanics | Gorazd Fajdiga | 45 | 0 | 30 | 0 | 0 | 75 | 150 | 6 | 2nd semester | no |
| 2. | 0625530 | Wood Anatomy | Maks Merela | 45 | 0 | 50 | 0 | 0 | 80 | 175 | 7 | 1st semester | no |
| 3. | 0625531 | Tehnickal Physics | Rok Petkovšek | 45 | 0 | 30 | 0 | 0 | 75 | 150 | 6 | 1st semester | no |
| 4. | 0625532 | Non-woody Materials in Production of Furniture | Marko Petrič | 20 | 0 | 15 | 0 | 0 | 40 | 75 | 3 | 1st semester | no |
| 5. | 0625533 | Construction | Manja Kitek Kuzman | 50 | 5 | 50 | 0 | 0 | 95 | 200 | 8 | 1st semester | no |
| 6. | 0625534 | Wood Physics | Aleš Straže | 45 | 0 | 35 | 0 | 0 | 70 | 150 | 6 | 2nd semester | no |
| 7. | 0625535 | Basics of wood and bark chemistry | Ida Poljanšek, Primož Oven | 50 | 0 | 40 | 0 | 0 | 85 | 175 | 7 | 2nd semester | no |
| 8. | 0625536 | Wood Processing Tools and Machines | Gorazd Fajdiga | 60 | 0 | 75 | 0 | 0 | 140 | 275 | 11 | 2nd semester | no |
| 9. | 0625537 | Mathematical Methods | Petra Grošelj | 45 | 0 | 30 | 0 | 0 | 75 | 150 | 6 | 1st semester | no |

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| | Total | 405 | 5 | 355 | 0 | 0 | 735 | 1500 | 60 | |
|--|-------|-----|---|-----|---|---|-----|------|----|--|

Year 2, obvezni

| | | | | Contact hours | | | | | | | | | |
|-------|------------------------|---|-------------------------------------|---------------|---------|-----------|--------------------|----------------------|-------------------------|-------------|------|--------------|----------|
| | University Course Code | Course title | Lecturers | Lectures | Seminar | Tutorials | Clinical tutorials | Other forms of study | Individual student work | Total hours | ECTS | Semesters | Elective |
| 1. | 0625538 | Wood Use | Maks Merela | 15 | 0 | 15 | 0 | 0 | 45 | 75 | 3 | 2nd semester | no |
| 2. | 0625539 | Wood drying | Aleš Straže | 40 | 0 | 35 | 0 | 0 | 75 | 150 | 6 | 1st semester | no |
| 3. | 0625540 | Glued wood | Milan Šernek | 45 | 0 | 30 | 0 | 0 | 75 | 150 | 6 | 2nd semester | no |
| 4. | 0625541 | Organization of production in wood industry company | Leon Oblak | 40 | 0 | 35 | 0 | 0 | 75 | 150 | 6 | 2nd semester | no |
| 5. | 0625542 | Economics of Wood-Industry Company and Basics of Entrepreneurship | Jože Kropivšek | 60 | 5 | 55 | 0 | 0 | 105 | 225 | 9 | 1st semester | no |
| 6. | 0625543 | Processing Technologies | Dominika Gornik Bučar, Miran Merhar | 50 | 0 | 55 | 0 | 0 | 120 | 225 | 9 | 2nd semester | no |
| 7. | 0625544 | Wood decay and protection | Miha Humar | 45 | 0 | 30 | 0 | 0 | 75 | 150 | 6 | 2nd semester | no |
| 8. | 0625545 | Primary Processing and Preparation of Raw Material | Dominika Gornik Bučar | 55 | 0 | 50 | 0 | 0 | 70 | 175 | 7 | 1st semester | no |
| 9. | 0625546 | Wood-Based Panels from Particles and Fibres | Sergej Medved | 55 | 0 | 50 | 0 | 0 | 95 | 200 | 8 | 1st semester | no |
| Total | | | | 405 | 5 | 355 | 0 | 0 | 735 | 1500 | 60 | | |

Year 3, obvezni

| | | | | Contact hours | | | | | | | | | |
|--|------------------------|--------------|-----------|---------------|---------|-----------|--------------------|-------------|-------------------------|-------------|------|-----------|----------|
| | University Course Code | Course title | Lecturers | Lectures | Seminar | Tutorials | Clinical tutorials | Other forms | Individual student work | Total hours | ECTS | Semesters | Elective |

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|-------|---------|---|-------------------------------------|-----|----|-----|---|-------------|-----|------|----|-------------------------------|-----|
| | | | | | | | | of study | | | | | |
| 1. | 0625547 | Management of Wood Products | Leon Oblak | 40 | 10 | 25 | 0 | 0 | 75 | 150 | 6 | 1st semester | no |
| 2. | 0625548 | Technologies of Surface Finishing of Wood and Wood - based Composites | Marko Petrič | 35 | 0 | 55 | 0 | 0 | 85 | 175 | 7 | 1st semester | no |
| 3. | 0625549 | Industrial Energy Engineering | Andrej Senegačnik | 20 | 0 | 15 | 0 | 0 | 40 | 75 | 3 | 1st semester | no |
| 4. | 0625550 | Design of Technological Processes | Milan Šernek | 30 | 0 | 20 | 0 | 0 | 50 | 100 | 4 | 1st semester | no |
| 5. | 0625551 | Practical Training 1 | Visokošolski učitelj s habilitacijo | 0 | 0 | 0 | 0 | 25 | 75 | 100 | 4 | 1st semester | no |
| 6. | 0625552 | Practical Training 2 | Visokošolski učitelj s habilitacijo | 0 | 0 | 0 | 0 | 75 | 250 | 325 | 13 | 2nd semester | no |
| 7. | 0625553 | Master Thesis | | | | | | 30 | 95 | 125 | 5 | 2nd semester | no |
| 8. | 0625554 | Elective Subjects | | | | | | 225 | 225 | 450 | 18 | 1st semester, 2nd semester | yes |
| Total | | | | 125 | 10 | 115 | 0 | 355 | 895 | 1500 | 60 | | |

Year 3, IZBIRNI

| | University Course Code | Course title | Lecturers | Contact hours | | | | | Individual student work | Total hours | ECTS | Semesters | Elective |
|----|------------------------|--|---------------|---------------|---------|-----------|--------------------|----------------------|-------------------------|-------------|------|-------------------------------|----------|
| | | | | Lectures | Seminar | Tutorials | Clinical tutorials | Other forms of study | | | | | |
| 1. | 0625555 | Quantitative methods | Petra Grošelj | 20 | 0 | 20 | 0 | 0 | 35 | 75 | 3 | 1st semester, 2nd semester | yes |
| 2. | 0625556 | Dendrology for Wood Engineers | Robert Brus | 20 | 0 | 20 | 0 | 0 | 35 | 75 | 3 | 1st semester, 2nd semester | yes |
| 3. | 0625557 | Wood-based composites surfacing technology | Sergej Medved | 20 | 0 | 20 | 0 | 0 | 35 | 75 | 3 | 1st semester, 2nd semester | yes |

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|-------|---------|--|----------------------------|-----|---|-----|---|---|-----|-----|----|-------------------------------|-----|
| 4. | 0625558 | Entrepreneurship | Jože Kropivšek | 20 | 0 | 20 | 0 | 0 | 35 | 75 | 3 | 1st semester, 2nd semester | yes |
| 5. | 0625559 | Interior Design and Composition | Manja Kitek Kuzman | 20 | 0 | 20 | 0 | 0 | 35 | 75 | 3 | 1st semester, 2nd semester | yes |
| 6. | 0625560 | Fire protection and modification of wood | Boštjan Lesar, Miha Humar | 20 | 0 | 20 | 0 | 0 | 35 | 75 | 3 | 1st semester, 2nd semester | yes |
| 7. | 0625561 | Wood in final construction works | Aleš Straže | 20 | 0 | 20 | 0 | 0 | 35 | 75 | 3 | 1st semester, 2nd semester | yes |
| 8. | 0625562 | Recovery and application of wood and bark extractives | Ida Poljanšek, Primož Oven | 20 | 0 | 20 | 0 | 0 | 35 | 75 | 3 | 1st semester, 2nd semester | yes |
| 9. | 0625563 | Standards and certification in wood industry | Bogdan Šega | 20 | 0 | 20 | 0 | 0 | 35 | 75 | 3 | 1st semester, 2nd semester | yes |
| 10. | 0625564 | Wood biomass fuels | Dominika Gornik Bučar | 20 | 0 | 20 | 0 | 0 | 35 | 75 | 3 | 1st semester, 2nd semester | yes |
| 11. | 0642754 | CNC woodworking technologies | Miran Merhar | 20 | 0 | 20 | 0 | 0 | 35 | 75 | 3 | 1st semester, 2nd semester | yes |
| 12. | 0642755 | Dimensioning of load-bearing elements of wooden structures | Gorazd Fajdiga | 20 | 0 | 20 | 0 | 0 | 35 | 75 | 3 | 1st semester, 2nd semester | yes |
| 13. | 0642756 | Surface finishing of wood in exterior applications | Matjaž Pavlič | 20 | 0 | 20 | 0 | 0 | 35 | 75 | 3 | 2nd semester | yes |
| Total | | | | 260 | 0 | 260 | 0 | 0 | 455 | 975 | 39 | | |