

CONTEST TOPICS

Associate professor, position. 25

Technical drawing

1. The purpose of the discipline, projection and representation systems
2. General rules for representing views and sections
3. General rules in technical drawing, dimension rating rules, rating systems, scale drawing
4. Representation, noting and rating of threads
5. Noting of the materials. Noting of the state of the surfaces
6. Assembly drawing, rules of representation, positioning of elements, completion of the composition table
7. Schematic drawing
8. Representation of cogwheels and gears

Computer assisted automobiles diagnosis

1. General principles of computer diagnostics of motor vehicles
2. General diagnosis of motor vehicles
3. Diagnostics of the main systems of motor vehicles
4. Elements of modern computer-aided diagnosis
5. Self-diagnosis or on-board diagnosis - equipment and method
6. Laboratory diagnosis - service (off board diagnosis) - equipment and method

Diagnostics of motor vehicles

1. General principles of diagnosis
2. General diagnosis of the vehicle
3. Diagnosing the technical condition of the engine
4. Diagnosis of the electrical installation
5. Diagnosing the technical condition of the transmission
6. Diagnosis of the steering system
7. Diagnostics of the braking system
8. Diagnosing the suspension
9. General diagnostics using the electronic tester

Manufacturing and repair of transport vehicles II

1. Technological procedures for the reconditioning of vehicle parts
2. Technologies for repairing vehicle parts and component assemblies
3. Repair of the frame, body and cabin
4. Anti-corrosion protection of automobiles

SELECTIVE BIBLIOGRAPHY

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1. Andreescu, C., and others, Diagnosticarea automobilelor, Printech Publishing House, Bucharest, 2002;
2. Cătăneanu, M., Dumitru, I., Oțăt, V., Popescu, F., Echipamente și tehnici de diagnosticare pentru autovehicule, Universitaria Publishing House, Craiova, 2007;
3. Denton,T., Advanced Automotive Fault Diagnosis, Taylor & Francis Ltd Publishing House, 2020;
4. Denton,T., Automobile Electrical & Electronic Systems, Taylor & Francis Ltd Publishing House, 2017;
5. Gherghina, G., Tutunea, D, Popa D., Desen tehnic, Teorie și Aplicații, Sitech Publishing House, Craiova, 2015;
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7. McCors, K., Automotive Diagnostic System, Car Tech Publishing House , 2011;
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10. Oțăt, V., Dumitru, I., ș.a., Echipamente și tehnici de diagnosticare pentru autovehicule, Universitaria Publishing House, Craiova, 2007;
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