

CABINET OF MINISTERS OF UKRAINE
National University of Life and Environmental Sciences of Ukraine

Reviewed and approved
academic council NULES Ukraine
" ____ " ____ 20__
(№ ____)

APPROVED"
Rector NULES Ukraine
____ Acad. D. Melnychuk
« ____ » ____ 20__

PLAN LEARNING PROCESS
training in 2013 income
Educational - qualification level "Bachelor"

Knowledge Area 1001 «Technology and Energy agricultural production"
Training direction 6.100102 "Processes, Machines and Equipment of Agricultural Production"

Form of training day
Duration of study 3 years 10 months
Qualifications Bachelor of Mechanical Engineer

Implement bachelors
SEI Technica
Faculty of Engineering Agrobiosistem

I. SCHEDULE OF EDUCATIONAL PROCESS

a) training "Bachelor" 2013 entry

in 6.100102 "Processes, Machines and Equipment of Agroindustrial Production"

| Course | 2013 year | | | | | | | | | | | | | | | | | | 2014 year | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|-----------|----|----|----|----|---------|----|----|----|----|----------|----|----|----|----------|----|----|-----|-----------|---------|----|----|----|----|----------|-----|----|----|----|-------|-----|----|----|----|-------|----|----|----|----|-----|----|----|----|------|----|----|----|------|------|----|----|----|----|--------|--|--|--|
| | September | | | | 30 | October | | | | 28 | November | | | | December | | | | 30 | January | | | | 27 | February | | | | 24 | March | | | | 31 | April | | | | 28 | May | | | | June | | | | 30 | July | | | | 28 | August | | | |
| | 2 | 9 | 16 | 23 | IX | 7 | 14 | 21 | X | 4 | 11 | 18 | 25 | 2 | 9 | 16 | 23 | XII | 6 | 13 | 20 | I | 3 | 10 | 17 | II | 3 | 10 | 17 | 24 | III | 7 | 14 | 21 | IV | 5 | 12 | 19 | 26 | 2 | 9 | 16 | 23 | VI | 7 | 14 | 21 | VII | 4 | 11 | 18 | 25 | | | | | |
| | 5 | | | | 5 | | | | 2 | | | | | | | | | 4 | | | | 1 | | | | 1 | | | | 5 | | | | 3 | | | | 10 | 17 | 24 | 31 | 7 | 14 | 21 | 28 | 5 | | | | | | | | | | | |
| | 7 | 14 | 21 | 28 | X | 12 | 19 | 26 | XI | 9 | 16 | 23 | 30 | 7 | 14 | 21 | 28 | I | 11 | 18 | 25 | II | 8 | 15 | 22 | III | 8 | 15 | 22 | 29 | IV | 12 | 19 | 26 | V | 10 | 17 | 24 | 31 | 7 | 14 | 21 | 28 | VI | 12 | 19 | 26 | VIII | 9 | 16 | 23 | 30 | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | | | | | |
| I | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | - | - | : | : | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | : | : | O | O | O | O | O | O | - | - | - | - | - | - | | | | | |

Legend:

| | | | | | |
|---|---|----------------------|----|---|--|
| X | - | theoretical training | X | - | manufacturing practice |
| : | - | exams | O | - | educational practice |
| - | - | vacation | II | - | подготовка master's work |
| | | | // | - | state certification (state examination and defense of master's work) |

б) training "Bachelor" 2013 entry

in 6.100102 "Processes, Machines and Equipment of Agroindustrial Production"

| Course | 2013 year | | | | | | | | | | | | | | | | | | 2014 year | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|-----------|----|----|----|----|---------|----|----|----|----|----------|----|----|----|----------|----|----|-----|-----------|---------|----|----|----|----|----------|-----|----|----|----|-------|-----|----|----|----|-------|----|----|----|----|-----|----|----|----|------|----|----|----|------|------|----|----|----|----|--------|--|--|--|
| | September | | | | 30 | October | | | | 28 | November | | | | December | | | | 30 | January | | | | 27 | February | | | | 24 | March | | | | 31 | April | | | | 28 | May | | | | June | | | | 30 | July | | | | 28 | August | | | |
| | 2 | 9 | 16 | 23 | IX | 7 | 14 | 21 | X | 4 | 11 | 18 | 25 | 2 | 9 | 16 | 23 | XII | 6 | 13 | 20 | I | 3 | 10 | 17 | II | 3 | 10 | 17 | 24 | III | 7 | 14 | 21 | IV | 5 | 12 | 19 | 26 | 2 | 9 | 16 | 23 | VI | 7 | 14 | 21 | VII | 4 | 11 | 18 | 25 | | | | | |
| | 5 | | | | 5 | | | | 2 | | | | | | | | | 4 | | | | 1 | | | | 1 | | | | 5 | | | | 3 | | | | | | | | 5 | | | | 2 | | | | | | | | | | | |
| | 7 | 14 | 21 | 28 | X | 12 | 19 | 26 | XI | 9 | 16 | 23 | 30 | 7 | 14 | 21 | 28 | I | 11 | 18 | 25 | II | 8 | 15 | 22 | III | 8 | 15 | 22 | 29 | IV | 12 | 19 | 26 | V | 10 | 17 | 24 | 31 | 7 | 14 | 21 | 28 | VII | 12 | 19 | 26 | VIII | 9 | 16 | 23 | 30 | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | | | | | | |
| I | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | - | - | : | : | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | : | : | O | O | O | O | O | O | - | - | - | - | - | - | | | | | |
| II | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | : | : | : | : | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | : | : | X | X | X | X | O | O | - | - | - | - | - | - | | | | | |
| III | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | : | : | : | : | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | : | : | X | X | X | X | X | X | - | - | - | - | - | - | | | | | |
| IV | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | : | : | : | : | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | : | : | X | // | II | II | // | | | | | | | | | | | | | | | |

Legend:

| | | | | | |
|---|---|----------------------|----|---|--|
| X | - | theoretical training | X | - | manufacturing practice |
| : | - | exams | O | - | educational practice |
| - | - | vacation | II | - | подготовка master's work |
| | | | // | - | state certification (state examination and defense of master's work) |

Dean _____ I. Rogowski

III. Structure of the curriculum

| Disciplines | Hours | Credits | % |
|---|-------------|--------------|-------------|
| 1. Regulatory disciplines | 4570 | 121,5 | 66,7 |
| 1.1. Cycle of humanitarian and socio- economic disciplines * | 1152 | 32 | |
| 1.2. Cycle disciplines of natural science (basic) training * | 1386 | 39 | |
| 1.3. Cycle professional disciplines and practical training * | 2772 | 77 | |
| 2 . Selected educational disciplines | 2160 | 60 | 29,1 |
| 2.1. Electives University | 1278 | 30 | |
| 2.1.1 . Cycle of humanitarian and socio- economic disciplines | 0 | | |
| 2.1.2 . Cycle disciplines of natural science (basic) training * | 0 | | |
| 2.1.3 . Cycle professional disciplines and practical training * | 1278 | 30 | |
| 2.2. Electives student | 1278 | 30 | |
| 2.2.1 . Cycle disciplines of natural science (basic) training * | 180 | 5 | |
| 2.2.2 . Cycle professional disciplines and practical training * | 900 | 25 | |
| 3. Other load | 360 | 10 | 4,2 |
| Total | 8640 | 240 | 100 |

* Names cycles disciplines in accordance with the state of the industry standards for higher education approved since 2007, the OKH and PPOs

IV. SUMMARY OF BUDGET TIME WEEK

| Year of study | Theoretical study | Exams | Practical Training | Preparation of Master work | State certification | Vacation | Total |
|---------------|-------------------|-----------|--------------------|----------------------------|---------------------|----------|------------|
| 1 | 34 | 4 | 6 | - | - | 8 | 52 |
| 2 | 34 | 4 | 6 | - | - | 8 | 52 |
| 3 | 34 | 4 | 6 | - | - | 8 | 52 |
| 4 | 30 | 4 | 1 | 3 | 1 | 2 | 42 |
| Total | 132 | 16 | 19 | 3 | 1 | 26 | 198 |

V. PRACTICAL TRAINING

| № | Type of practice | Semester | Hours | Credits | Number of weeks |
|-------|------------------------------|----------|-------------|-----------|-----------------|
| 1 | Training and orientation | 2 | 162 | 4,5 | 3,0 |
| 2 | Training repair locksmith | 2 | 216 | 6 | 4,0 |
| 3 | Mechanics and Technology | 4 | 324 | 9 | 6,0 |
| 4 | Vocational and technological | 6 | 378 | 10,5 | 7,0 |
| Total | | | 1080 | 30 | 20 |

VI. COURSE WORK AND PROJECTS

| № | Name of discipline | Hours | Credits | Course work | Course projects |
|----|--|-------|---------|-------------|-----------------|
| 1 | Theory of Mechanisms and Machines | 36 | 1 | | 1 |
| 2 | Tractors and Automobiles | 36 | 1 | 1 | |
| 3 | Agricultural machinery | 36 | 1 | 1 | |
| 4 | machine parts | 36 | 1 | | 1 |
| 5 | Interchangeability, standardization and technical measurements | 36 | 1 | 1 | |
| 6 | Technical services in AIC | 36 | 1 | | 1 |
| 7 | Operation of machines and equipment | 36 | 1 | | 1 |
| 8 | Repair of machinery | 36 | 1 | | |
| 9 | Mashine-using in livestock | 36 | 1 | | 1 |
| 10 | Mashine-using in processing industry | 36 | 1 | | |

VII. STATE CERTIFICATION

| № | Component certification | Hours | Credits | Number of weeks |
|-------|----------------------------------|-------|---------|-----------------|
| 1 | Preparation of the master's work | 36 | 1 | 1 |
| 2 | Protection of the master's work | 216 | 6 | 3 |
| Total | | 242 | 7 | 4 |

[illegible]

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|------|------|----|----|-----|------|-----|-----|-----|------|---|---|----|----|----|---|----|----|----|----|
| Total | | 1386 | 39 | 7 | 6 | 36 | 858 | 429 | 315 | 114 | 364 | 0 | 0 | 14 | 14 | 6 | 4 | 0 | 0 | 0 | 0 |
| 1.3. Cycle professional and practical training | | | | | | | | | | | | | | | | | | | | | |
| 1 | Computers and Computer Technology | 108 | 3,0 | e | | | 68 | 34 | 34 | | 40 | | | | 4 | | | | | | |
| 2 | Materials and BMT | 216 | 6,0 | e | t | | 115 | 58 | 58 | | 101 | | | | 3 | 4 | | | | | |
| 3 | Fuel and Lubricants, and Other Maintenance Materials | 90 | 2,5 | | t | | 48 | 16 | 32 | | 42 | | | | | 3 | | | | | |
| 4 | Tractors and Cars | 360 | 10,0 | e | t | 36 | 212 | 106 | 106 | | 148 | | | | | 4 | 4 | 5 | | | |
| 5 | Agricultural Machines | 396 | 11,0 | e | t | 36 | 232 | 116 | 116 | | 164 | | | | | | 4 | 6 | 4 | | |
| 6 | Machine Parts | 144 | 4,0 | e | | 36 | 80 | 40 | 40 | | 64 | | | | | | | 5 | | | |
| 7 | Machines and Equipment for Livestock | 126 | 3,5 | e | | | 68 | 34 | 34 | | 58 | | | | | | | | 4 | | |
| 8 | Hoisting Machinery | 108 | 3,0 | | t | | 68 | 34 | 34 | | 40 | | | | | | | | 4 | | |
| 9 | Hydro-Pneumatic and Agricultural Machinery | 180 | 5,0 | e | t | | 115 | 58 | 58 | | 65 | | | | | | | | 3 | 4 | |
| 10 | Machines and Equipment for Processing Agricultural Products | 108 | 3,0 | e | | | 64 | 32 | 32 | | 44 | | | | | | | | | 4 | |
| 11 | Occupational Health and Safety | 162 | 4,5 | e | t | | 72 | 46 | 26 | | 90 | | | | | | | | | 4 | 2 |
| 12 | Technical Service in AIC | 216 | 6,0 | e | t | 36 | 120 | 60 | 60 | | 96 | | | | | | | | | 4 | 4 |
| 13 | Maintenance of Machinery and Equipment | 180 | 5,0 | e | t | 36 | 106 | 53 | 53 | | 74 | | | | | | | | | 4 | 3 |
| 14 | Machines Using in Processing Industry | 90 | 2,5 | | t | 36 | 42 | 14 | 28 | | 48 | | | | | | | | | | 3 |
| 15 | Machines Using in Livestock | 90 | 2,5 | e | | 36 | 42 | 14 | 28 | | 48 | | | | | | | | | | 3 |
| 16 | Operation of Machinery and Equipment | 108 | 3,0 | e | | 36 | 56 | 28 | 28 | | 52 | | | | | | | | | | 4 |
| 17 | Economics of Agricultural Production | 90 | 2,5 | | t | | 42 | 14 | 28 | | 48 | | | | | | | | | | 3 |
| Total | | 2772 | 77 | 13 | 11 | 288 | 1550 | 756 | 794 | | 1222 | | | | 7 | 11 | 8 | 16 | 15 | 20 | 22 |
| 2. Selective academic disciplines | | | | | | | | | | | | | | | | | | | | | |
| 2.1. Elective Courses University | | | | | | | | | | | | | | | | | | | | | |
| 2.1.1. Cycle professional and practical training* | | | | | | | | | | | | | | | | | | | | | |
| 1 | Technology of Production and Processing of Agricultural Produce | 144 | 4,00 | | t | | 83 | 42 | 42 | | 61 | | | | 2 | 2 | 1 | | | | |
| 2 | Fundamentals of Biotechnology | 36 | 1,00 | | t | | 17 | 9 | 9 | | 19 | | | | | | 1 | | | | |
| 3 | Engineering Ecology | 54 | 1,50 | | t | | 34 | 17 | 17 | | 20 | | | | | | 2 | | | | |
| 4 | Fundamentals Driving and Mobile Agricultural Machinery | 108 | 3,00 | | t | | 68 | 34 | 34 | | 40 | | | | | | 4 | | | | |
| 5 | Hydraulics | 108 | 3,00 | | t | | 68 | 34 | 34 | | 40 | | | | | | 4 | | | | |
| 6 | Heat | 108 | 3,00 | e | | | 64 | 32 | 32 | | 44 | | | | | | | 4 | | | |
| 7 | Mechanical and Technological Properties of Agricultural Materials | 90 | 2,50 | | t | | 48 | 16 | 32 | | 42 | | | | | | | 3 | | | |
| 8 | Electrical and Electronics | 90 | 2,50 | e | | | 51 | 17 | 34 | | 39 | | | | | | | | 3 | | |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|------|------|-----|----|-----|------|------|------|-----|------|-----|-----|----|----|----|----|----|----|----|
| 9 | System "Machine Field" | 90 | 2,50 | | t | | 51 | 17 | 34 | | 39 | | | | | | | 3 | | |
| Total | | 828 | 23 | 2 | 7 | 0 | 484 | 217 | 267 | 0 | 344 | 0 | 0 | 0 | 2 | 2 | 12 | 7 | 6 | 0 |
| 2.2. Electives student | | | | | | | | | | | | | | | | | | | | |
| 2.2.1. Cycle of humanitarian and socio-economic disciplines * | | | | | | | | | | | | | | | | | | | | |
| 1 | History and Philosophy of Agricultural Machinery | 90 | 2,5 | | t | | 51 | 17 | 34 | | 39 | | | | | | | 3 | | |
| 2 | Management and Marketing | 90 | 2,5 | | t | | 42 | 14 | 28 | | 48 | | | | | | | | | 3 |
| Total | | 180 | 5 | 0 | 2 | 0 | 93 | 31 | 62 | 0 | 87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| 2.2.2. Cycle professional and practical training* | | | | | | | | | | | | | | | | | | | | |
| 1 | Interchangeability, Standardization and Technical Measuring | 90 | 2,5 | e | | 36 | 51 | 17 | 34 | | 39 | | | | | | | 3 | | |
| 2 | Electric Drive and Automation | 180 | 5 | | t | | 106 | 53 | 53 | | 74 | | | | | | | | 4 | 3 |
| Total | | 270 | 7,5 | 1 | 1 | 36 | 157 | 70 | 87 | 0 | 113 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 3 |
| Together in a selected component | | 1278 | 36 | 3 | 10 | 36 | 734 | 318 | 416 | 0 | 544 | 0 | 0 | 0 | 2 | 2 | 12 | 7 | 12 | 4 |
| practical Training | | 1080 | | | | | | | | | | 0 | | | | | | | | |
| Training of drivers | | 108 | 3 | | | | | | | | 108 | | | | | | | | | |
| Military training | | 675 | | e | t | | 450 | 225 | 225 | | 225 | | | | | | | | | |
| Preparation and baccalaureate work | | 216 | 6 | | | | | | | | | | | | | | | | | |
| Amount of coursework (projects) | | 360 | | | | 360 | | | | | | | | | | | | | | |
| Number of exams | | 203 | | 203 | | | | | | | | | | | | | | | | |
| Number of credits | | 64 | | | 64 | | | | | | | | | | | | | | | |
| State certification | | 36 | 1 | | | | | | | | | | | | | | | | | |
| Total Bachelor | | 8640 | 240 | 30 | 42 | | 3853 | 1689 | 1391 | 659 | 2877 | 128 | 630 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |

В.о. декана ф-ту ІА,
відповідальний за переклад

І. Роговський