

Faculty of Medicine in Rijeka

**Curriculum  
2023/2024**

For course

**Anatomical Base of Lesions of Spinal and Cranial Nerves**

|                     |                                                                                                            |
|---------------------|------------------------------------------------------------------------------------------------------------|
| Study program:      | <b>Medical Studies in English (R)</b> (elective)<br>University integrated undergraduate and graduate study |
| Department:         | <b>Department of Anatomy</b>                                                                               |
| Course coordinator: | <b>prof. dr. sc. Zoričić Cvek Sanja, dr. med.</b>                                                          |
| Year of study:      | <b>1</b>                                                                                                   |
| ECTS:               | <b>1.5</b>                                                                                                 |
| Incentive ECTS:     | <b>0 (0.00%)</b>                                                                                           |
| Foreign language:   | <b>Possibility of teaching in a foreign language</b>                                                       |

**Course information:**

The main topic of the elective course is the morphological and functional characteristics of cranial and spinal nerves with a special focus on topographic relationships and the pathways these nerves pass through. On the basis of topographic relationships, the anatomical structures that can lead to their lesions will be shown, as well as the corresponding outbursts from the side of the organs that are innervated by the mentioned nerves. In addition to the morphological descriptions of the anatomical structures, the mechanisms that lead to lesions will be described and clarified (for the nn. olfactorius, anosmia and liquor will be described as symptoms indicating nerve damage in the area of the laminae cribrosae ossis ethmoidalis, for n. II, hemianopsia and other lesions on the visual pathway in terms of involvement of the optic nerve, chiasma opticus, tractus opticus and other variants, etc. to various lesions of the peripheral branches of the plexus for the innervation of the upper and lower extremities).

**List of assigned reading:**

Sobotta Anatomy textbook, Editor Jens Waschke, Tobias M. Bockers, Friedrich Paulsen, ELSEVIER 2015

**List of optional reading:**

## Curriculum:

### Lectures list (with titles and explanation):

#### **P1: The morphological and functional characteristics of the cranial nerves (nn. olfactorius, n. opticus, n. oculomotorius, n. trochlearis, n. abducens)**

The students will be prepared for the theoretical description of the functional division of the cranial nerves so as their close topographical relationships. At the morphological, functional and topographical characteristics of the cranial nerves, the student will be able to conclude the origin and the topography of the lesions in relation to the symptoms at the periphery.

#### **P2: The anatomical base for the lesion of the trigeminal nerve**

The students will be trained to connect functionally different types of trigeminal nerve nuclei, their location in brain, their point of exit from the brainstem, their intracranial and extracranial pathway and close topographical relations and the symptoms of the lesions at the periphery.

#### **P3: N. vestibulocochlearis and inner ear**

The students will be trained to abstract the nuclei, the points of exit from the brainstem and the pathway to the bony and membranous labyrinth of the inner ear. On the basis of symptoms and hearing disturbance, students will be able to recognize and to conclude where is the site of nerve lesion.

#### **P4: Spinal nerves and cervicobrachial syndromes**

The student will be able to point out the main morphological and functional characteristics of the different spinal nerves regarding the segmentation and peripheral pattern of innervation. On the basis of the symptoms regarding disturbance in motor and sensory function of the brachial plexus, the student will be able to conclude the site of lesion of the spinal nerve.

#### **P5: Spinal nerves and cervicobrachial syndromes**

The student will be able to point out the main morphological and functional characteristics of the different spinal nerves regarding the segmentation and peripheral pattern of innervation. On the basis of the symptoms regarding disturbance in motor and sensory function of the brachial plexus, the student will be able to conclude the site of lesion of the spinal nerve.

### Seminars list (with titles and explanation):

#### **S3: N. facialis. Central and peripheral lesion of the nerve.**

On the basis of theoretical descriptive and topographical characteristics, the students will be able to conclude which symptoms will be present in a case of central and peripheral lesion of the n. facialis.

#### **S4: N. glossopharyngeus and the lesion**

On the basis of theoretical knowledge regarding the morphology and topography of the n. IX, the students will be able to construct the clinical symptoms and difficulties in patients with central and peripheral lesion of the n. IX.

#### **S6: N. vagus and parasympathetic innervation of the visceral organs**

On the basis of theoretical knowledge regarding the morphology and topography of the n. X, the students will be able to construct the clinical symptoms and difficulties in patients with central and peripheral lesion of the n. X, especially regarding the cardiovascular and respiratory system.

#### **S9: N. XI and n. XII and motor disturbances of the neck and tongue muscles**

On the basis of theoretical knowledge regarding the morphology and topography of the n. XI and n. XII, the students will be able to construct the clinical symptoms and difficulties with the movements in a case of central and peripheral lesion of the n. XI and XII.

#### **S12: Cervical spinal nerves**

The student will be able to conclude the site of lesion of the cervical spinal nerves (central and peripheral lesions).

regarding the peripheral symptoms.

#### **S15:Plexus brachialis**

The students will learn and accepted the skills how to recognize individual nerve lesions of the plexus brachialis.

#### **S18:NN. spinales thoracici. Herpes zoster of the thoracal spinal nerves dermatomes.**

Regarding the anatomical and functional characteristic of the thoracal spinal nerves, the students will be able to register the site of the lesion in a case of herpes zoster.

#### **S1: N. facialis. Central and peripheral lesion of the nerve**

On the basis of theoretical descriptive and topographical characteristic, the students will be able to conclude which symptoms will be present in a case of central and peripheral lesion of the n. facialis.

#### **S2: N. facialis. Central and peripheral lesion of the nerve**

On the basis of theoretical descriptive and topographical characteristic, the students will be able to conclude which symptoms will be present in a case of central and peripheral lesion of the n. facialis.

#### **S5:N. glossopharyngeus and the lesion**

On the basis of theoretical knowledge regarding the morphology and topography of the n. IX, the students will be able to construct the clinical symptoms and difficulties in patients with central and peripheral lesion of the n. IX.

#### **S7:N vagus and parasympathetic innervation of the visceral organs**

On the basis of theoretical knowledge regarding the morphology and topography of the n. X, the students will be able to construct the clinical symptoms and difficulties in patients with central and peripheral lesion of the n. X, especially regarding the cardiovascular and respiratory system.

#### **S8:N vagus and parasympathetic innervation of the visceral organs**

On the basis of theoretical knowledge regarding the morphology and topography of the n. X, the students will be able to construct the clinical symptoms and difficulties in patients with central and peripheral lesion of the n. X, especially regarding the cardiovascular and respiratory system.

#### **S10:N. XI and n. XII and motor disturbances of the neck and tongue muscles**

On the basis of theoretical knowledge regarding the morphology and topography of the n. XI and n. XII, the students will be able to construct the clinical symptoms and difficulties with the movements in a case of central and peripheral lesion of the n. XI and XII.

#### **S11:N. XI and n. XII and motor disturbances of the neck and tongue muscles**

On the basis of theoretical knowledge regarding the morphology and topography of the n. XI and n. XII, the students will be able to construct the clinical symptoms and difficulties with the movements in a case of central and peripheral lesion of the n. XI and XII

#### **S13:Cervical spinal nerves**

The student will be able to conclude the site of lesion of the cervical spinal nerves (central and peripheral lesions) regarding the peripheral symptoms.

#### **S14:Cervical spinal nerves**

The student will be able to conclude the site of lesion of the cervical spinal nerves (central and peripheral lesions) regarding the peripheral symptoms.

#### **S16:Plexus brachialis**

The students will learn and accepted the skills how to recognize individual nerve lesions of the plexus brachialis.

#### **S17:Plexus brachialis**

The students will learn and accepted the skills how to recognize individual nerve lesions of the plexus brachialis.

#### **S19:NN. spinales thoracici. Herpes zoster of the thoracal spinal nerves dermatomes.**

Regarding the anatomical and functional characteristic of the thoracal spinal nerves, the students will be able to register the site of the lesion in a case of herpes zoster.

**S20:NN. spinales thoracicci. Herpes zoster of the thoracal spinal nerves dermatomes.**

Reagrding the anatomical and functional characteristic of the thoracal spinal nerves, the students will be able to register the site of the lesion in a case of herpes zoster.

**Student obligations:**

**Exam (exam taking, description of the written/oral/practical part of the exam, point distribution, grading criteria):**

**Other notes (related to the course) important for students:**

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## COURSE HOURS 2023/2024

### Anatomical Base of Lesions of Spinal and Cranial Nerves

| Lectures<br>(Place and time or group)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Seminars<br>(Place and time or group)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>02.05.2024</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <p>P1: The morphological and functional characteristic of the cranial nerves (nn. olfactorius, n. opticus, n. oculomotorius, n. trochlearis, n. abducens):</p> <ul style="list-style-type: none"><li>• Department of Anatomy - Seminarska (16:15 - 18:30) <sup>[1600]</sup><ul style="list-style-type: none"><li>◦ ABoLoSaCN</li></ul></li></ul> <p>P2: The anatomical base for the lesion of the trigeminal nerve:</p> <ul style="list-style-type: none"><li>• Department of Anatomy - Seminarska (16:15 - 18:30) <sup>[1600]</sup><ul style="list-style-type: none"><li>◦ ABoLoSaCN</li></ul></li></ul> <p>P3: N. vestibulocochlearis and inner ear:</p> <ul style="list-style-type: none"><li>• Department of Anatomy - Seminarska (16:15 - 18:30) <sup>[1600]</sup><ul style="list-style-type: none"><li>◦ ABoLoSaCN</li></ul></li></ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| prof. dr. sc. Zoričić Cvek Sanja, dr. med. <sup>[1600]</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>07.05.2024</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <p>S3: N. facialis. Central and peripheral lesion of the nerve.:</p> <ul style="list-style-type: none"><li>• Department of Anatomy - Seminarska (16:15 - 18:30) <sup>[1600]</sup><ul style="list-style-type: none"><li>◦ ABoLoSaCN</li></ul></li></ul> <p>S1: N. facialis. Central and peripheral lesion of the nerve:</p> <ul style="list-style-type: none"><li>• Department of Anatomy - Seminarska (16:15 - 18:30) <sup>[1600]</sup><ul style="list-style-type: none"><li>◦ ABoLoSaCN</li></ul></li></ul> <p>S2: N. facialis. Central and peripheral lesion of the nerve:</p> <ul style="list-style-type: none"><li>• Department of Anatomy - Seminarska (16:15 - 18:30) <sup>[1600]</sup><ul style="list-style-type: none"><li>◦ ABoLoSaCN</li></ul></li></ul> |
| prof. dr. sc. Zoričić Cvek Sanja, dr. med. <sup>[1600]</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>09.05.2024</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <p>P4: Spinal nerves and cervicobrachial syndroms:</p> <ul style="list-style-type: none"><li>• Department of Anatomy - Hall 4 (16:15 - 17:45) <sup>[1600]</sup><ul style="list-style-type: none"><li>◦ ABoLoSaCN</li></ul></li></ul> <p>P5: Spinal nerves and cervicobrachial syndroms:</p> <ul style="list-style-type: none"><li>• Department of Anatomy - Hall 4 (16:15 - 17:45) <sup>[1600]</sup><ul style="list-style-type: none"><li>◦ ABoLoSaCN</li></ul></li></ul>                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| prof. dr. sc. Zoričić Cvek Sanja, dr. med. <sup>[1600]</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>14.05.2024</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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|                                                   | <p>S4:N. glossopharyngeus and the lesion:</p> <ul style="list-style-type: none"> <li>• Department of Anatomy - Seminarska (16:15 - 17:45) [1600] <ul style="list-style-type: none"> <li>◦ ABoLoSaCN</li> </ul> </li> </ul> <p>S5:N. glossopharyngeus and the lesion:</p> <ul style="list-style-type: none"> <li>• Department of Anatomy - Seminarska (16:15 - 17:45) [1600] <ul style="list-style-type: none"> <li>◦ ABoLoSaCN</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                          |
| prof. dr. sc. Zoričić Cvek Sanja, dr. med. [1600] |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>16.05.2024</b>                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                   | <p>S6:N vagus and parasympathetic innervation of the visceral organs:</p> <ul style="list-style-type: none"> <li>• Department of Anatomy - Seminarska (16:15 - 18:30) [1600] <ul style="list-style-type: none"> <li>◦ ABoLoSaCN</li> </ul> </li> </ul> <p>S7:N vagus and parasympathetic innervation of the visceral organs:</p> <ul style="list-style-type: none"> <li>• Department of Anatomy - Seminarska (16:15 - 18:30) [1600] <ul style="list-style-type: none"> <li>◦ ABoLoSaCN</li> </ul> </li> </ul> <p>S8:N vagus and parasympathetic innervation of the visceral organs:</p> <ul style="list-style-type: none"> <li>• Department of Anatomy - Seminarska (16:15 - 18:30) [1600] <ul style="list-style-type: none"> <li>◦ ABoLoSaCN</li> </ul> </li> </ul>                           |
| prof. dr. sc. Zoričić Cvek Sanja, dr. med. [1600] |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>21.05.2024</b>                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                   | <p>S9:N. XI and n. XII and motor disturbances of the neck and tongue muscles:</p> <ul style="list-style-type: none"> <li>• Department of Anatomy - Seminarska (16:15 - 18:30) [1600] <ul style="list-style-type: none"> <li>◦ ABoLoSaCN</li> </ul> </li> </ul> <p>S10:N. XI and n. XII and motor disturbances of the neck and tongue muscles:</p> <ul style="list-style-type: none"> <li>• Department of Anatomy - Seminarska (16:15 - 18:30) [1600] <ul style="list-style-type: none"> <li>◦ ABoLoSaCN</li> </ul> </li> </ul> <p>S11:N. XI and n. XII and motor disturbances of the neck and tongue muscles:</p> <ul style="list-style-type: none"> <li>• Department of Anatomy - Seminarska (16:15 - 18:30) [1600] <ul style="list-style-type: none"> <li>◦ ABoLoSaCN</li> </ul> </li> </ul> |
| prof. dr. sc. Zoričić Cvek Sanja, dr. med. [1600] |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>23.05.2024</b>                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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|                                                   | <p>S12:Cervical spinal nerves:</p> <ul style="list-style-type: none"> <li>• Department of Anatomy - Seminarska (16:15 - 18:30) [1600] <ul style="list-style-type: none"> <li>◦ ABoLoSaCN</li> </ul> </li> </ul> <p>S13:Cervical spinal nerves:</p> <ul style="list-style-type: none"> <li>• Department of Anatomy - Seminarska (16:15 - 18:30) [1600] <ul style="list-style-type: none"> <li>◦ ABoLoSaCN</li> </ul> </li> </ul> <p>S14:Cervical spinal nerves:</p> <ul style="list-style-type: none"> <li>• Department of Anatomy - Seminarska (16:15 - 18:30) [1600] <ul style="list-style-type: none"> <li>◦ ABoLoSaCN</li> </ul> </li> </ul>                                                                                                                                                                               |
| prof. dr. sc. Zoričić Cvek Sanja, dr. med. [1600] |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>28.05.2024</b>                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                   | <p>S15:Plexus brachialis:</p> <ul style="list-style-type: none"> <li>• Department of Anatomy - Hall 4 (16:15 - 18:30) [1600] <ul style="list-style-type: none"> <li>◦ ABoLoSaCN</li> </ul> </li> </ul> <p>S16:Plexus brachialis:</p> <ul style="list-style-type: none"> <li>• Department of Anatomy - Hall 4 (16:15 - 18:30) [1600] <ul style="list-style-type: none"> <li>◦ ABoLoSaCN</li> </ul> </li> </ul> <p>S17:Plexus brachialis:</p> <ul style="list-style-type: none"> <li>• Department of Anatomy - Hall 4 (16:15 - 18:30) [1600] <ul style="list-style-type: none"> <li>◦ ABoLoSaCN</li> </ul> </li> </ul>                                                                                                                                                                                                          |
| prof. dr. sc. Zoričić Cvek Sanja, dr. med. [1600] |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>31.05.2024</b>                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                   | <p>S18:NN. spinales thoracicci. Herpes zoster of the thoracal spinal nerves dermatomes.:</p> <ul style="list-style-type: none"> <li>• Department of Anatomy - Seminarska (16:15 - 18:30) [1600] <ul style="list-style-type: none"> <li>◦ ABoLoSaCN</li> </ul> </li> </ul> <p>S19:NN. spinales thoracicci. Herpes zoster of the thoracal spinal nerves dermatomes.:</p> <ul style="list-style-type: none"> <li>• Department of Anatomy - Seminarska (16:15 - 18:30) [1600] <ul style="list-style-type: none"> <li>◦ ABoLoSaCN</li> </ul> </li> </ul> <p>S20:NN. spinales thoracicci. Herpes zoster of the thoracal spinal nerves dermatomes.:</p> <ul style="list-style-type: none"> <li>• Department of Anatomy - Seminarska (16:15 - 18:30) [1600] <ul style="list-style-type: none"> <li>◦ ABoLoSaCN</li> </ul> </li> </ul> |
| prof. dr. sc. Zoričić Cvek Sanja, dr. med. [1600] |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

#### List of lectures, seminars and practicals:

| LECTURES (TOPIC)                                                                                                                                      | Number of hours | Location                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------|
| P1:The morphological and functional characteristic of the cranial nerves (nn. olfactorius, n. opticus, n. oculomotorius, n. trochlearis, n. abducens) | 1               | Department of Anatomy - Seminarska |

|                                                               |   |                                       |
|---------------------------------------------------------------|---|---------------------------------------|
| P2:The anatomical base for the lesion of the trigeminal nerve | 1 | Department of Anatomy -<br>Seminarska |
| P3:N. vestibulocochlearis and inner ear                       | 1 | Department of Anatomy -<br>Seminarska |
| P4: Spinal nerves and cervicobrachial syndroms                | 1 | Department of Anatomy - Hall 4        |
| P5: Spinal nerves and cervicobrachial syndroms                | 1 | Department of Anatomy - Hall 4        |

| <b>SEMINARS (TOPIC)</b>                                                             | <b>Number of<br/>hours</b> | <b>Location</b>                       |
|-------------------------------------------------------------------------------------|----------------------------|---------------------------------------|
| S3:N. facialis. Central and peripheral lesion of the nerve.                         | 1                          | Department of Anatomy -<br>Seminarska |
| S4:N. glossopharyngeus and the lesion                                               | 1                          | Department of Anatomy -<br>Seminarska |
| S6:N vagus and parasympathetic innervation of the visceral organs                   | 1                          | Department of Anatomy -<br>Seminarska |
| S9:N. XI and n. XII and motor disturbances of the neck and tongue muscles           | 1                          | Department of Anatomy -<br>Seminarska |
| S12:Cervical spinal nerves                                                          | 1                          | Department of Anatomy -<br>Seminarska |
| S15:Plexus brachialis                                                               | 1                          | Department of Anatomy - Hall 4        |
| S18:NN. spinales thoracici. Herpes zoster of the thoracal spinal nerves dermatomes. | 1                          | Department of Anatomy -<br>Seminarska |
| S1: N. facialis. Central and peripheral lesion of the nerve                         | 1                          | Department of Anatomy -<br>Seminarska |
| S2: N. facialis. Central and peripheral lesion of the nerve                         | 1                          | Department of Anatomy -<br>Seminarska |
| S5:N. glossopharyngeus and the lesion                                               | 1                          | Department of Anatomy -<br>Seminarska |
| S7:N vagus and parasympathetic innervation of the visceral organs                   | 1                          | Department of Anatomy -<br>Seminarska |
| S8:N vagus and parasympathetic innervation of the visceral organs                   | 1                          | Department of Anatomy -<br>Seminarska |
| S10:N. XI and n. XII and motor disturbances of the neck and tongue muscles          | 1                          | Department of Anatomy -<br>Seminarska |
| S11:N. XI and n. XII and motor disturbances of the neck and tongue muscles          | 1                          | Department of Anatomy -<br>Seminarska |
| S13:Cervical spinal nerves                                                          | 1                          | Department of Anatomy -<br>Seminarska |
| S14:Cervical spinal nerves                                                          | 1                          | Department of Anatomy -<br>Seminarska |
| S16:Plexus brachialis                                                               | 1                          | Department of Anatomy - Hall 4        |
| S17:Plexus brachialis                                                               | 1                          | Department of Anatomy - Hall 4        |
| S19:NN. spinales thoracici. Herpes zoster of the thoracal spinal nerves dermatomes. | 1                          | Department of Anatomy -<br>Seminarska |
| S20:NN. spinales thoracici. Herpes zoster of the thoracal spinal nerves dermatomes. | 1                          | Department of Anatomy -<br>Seminarska |

**EXAM DATES (final exam):**

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