**Biophysics in radiology: teaching content and schedule**

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Type** | **Time (h)** | **Topic** |
| 1 | Lecture | 2 | EM waves, nuclear structure and radioactivity |
| 2 | Lecture | 2 | Ionizing radiation (IR), interaction with matter and biological system |
| 3 | Lecture | 2 | Laws of attenuation. Physics of detection and measurement of IR |
| 4 | Lecture | 2 | Physics of diagnostic with X radiation |
| 5 | Seminar 1 | 2 | Physics of diagnostic with non-ionizing radiation |
| 6 | Seminar 2 | 1 | X and gamma knife. PET and gamma camera |
| 7 | Exercise | 1 | Radioactive decay and attenuation: problems |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Date** | **Type** | **Time (h)** | **Place\*** | **Group** |
| 04-10 | Lect. 1 | 14:30-16 | Hall 1 | 1 |
| Hall 2 | 2 |
| 11-10 | Lect. 2 | 14:30-16 | Hall 1 | 1 |
| Hall 2 | 2 |
| 18-10 | Lect. 3 | 14:30-16 | Hall 1 | 1 |
| Hall 2 | 2 |
| 25-10 | Lect. 4 | 14:30-16 | Hall 1 | 1 |
| Hall 2 | 2 |
| 01-11 | Seminar 1 | 14:30-16 | Hall 1 | 1 |
| Hall 2 | 2 |
| 08-11 | Seminar 2  Exercise | 14:30-16 | Hall 1 | 1 |
| Hall 2 | 2 |
| 10-01 | Make up | 14:30-16 | Hall 1 | 1 |
| Hall 2 | 2 |

\* All forms of teaching are held in the halls of the Institute of Biophysics