**Table 5.4.** List of courses on doctoral studies **DOS HYDROINFORMATICS**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Course code** | **Course name** | **Name or names of teachers** | **Semester** | **ECTS** | **SF** | **T** |
| 1 | DH11 | Scientific research method | Kisi S. OzgurTrajković R. SlavišaKaramarković P. JugoslavGocić Lj. Milan | 1 | 4 | Društvene nauke | M |
| 2 | DH121 | Applied numerical methods for engineers | Đorđević R. ĐorđeProtić V. Petar | 1 | 10 | Matematika | E |
| 3 | DH122 | Special topics in mathematical statistics | Tričković B. SlobodanBlagojević D. Borislava | 1 | 10 | Matematika | E |
| 4 | DH123 | Selected chapters in applied mathematics | Protić V. PetarTričković B. SlobodanĐorđević R. ĐorđeGocić Lj. MilanMilićević B. Dragan | 1 | 10 | Matematika | E |
| 5 | DH131 | Selected chapters in hydrology | Blagojević D. BorislavaPotić V. Olivera | 1 | 10 | Mehanika fluida, hidraulika i hidrologija | E |
| 6 | DH132 | Selected chapters in hydraulics | Aranđelović S. DraganBlagojević D. Borislava | 1 | 10 | Mehanika fluida, hidraulika i hidrologija | E |
| 7 | DH133 | Hydroinformatics: concept, methods and tools | Kisi S. OzgurGocić Lj. MilanTodorović T. Branimir | 1 | 10 | Informacione tehnologije u građevinarstvu  | E |
| 8 | DH134 | Physically based hydro technical modeling | Karamarković P. JugoslavMaluckov A. AleksandraĐorić-Veljković M. Snežana | 1 | 10 | Primenjena fizika | E |
| 9 | DH14 | Study and research 1 |  | 1 | 6 | Mehanika fluida, hidraulika i hidrologija | M |
| 10 | DH2121 | GIS, remote sensing in water and land management | Todorović R. Mladen | 2 | 10 | Vodoprivreda – korišćenje, uređenje i zaštita voda | E |
| 11 | DH2122 | Fuzzy logic and hydrological applications | Kisi S. Ozgur | 2 | 10 | Mehanika fluida, hidraulika i hidrologija | E |
| 12 | DH2123 | Scientific programming | Gocić Lj. Milan | 2 | 10 | Inforamcione tehnologije u građevinarstvu | E |
| 13 | DH2124 | Intelligent data processing | Todorović T. Branimir | 2 | 10 | Inforamcione tehnologije u građevinarstvu | E |
| 14 | DH2125 | Artificial neural networks and hydrological applications | Kisi S. OzgurTodorović T. Branimir | 2 | 10 | Mehanika fluida, hidraulika i hidrologija | E |
| 15 | DH2126 | Knowledge representations and standardization in water science | Gocić Lj. Milan | 2 | 10 | Inforamcione tehnologije u građevinarstvu | E |
| 16 | DH23 | Study and research 2 |  | 2 | 10 |  | M |
| 17 | DH31231 | Advanced programming with soft computational techniques | Kisi S. Ozgur | 3 | 10 | Inforamcione tehnologije u građevinarstvu | E |
| 18 | DH31232 | Water quality | Milenković S. SlobodanMilićević B. DraganZarubica R. Aleksandra | 3 | 10 | Komunalna i sanitarna hidrotehnika | E |
| 19 | DH31233 | Water pollution control | Milenković S. SlobodanMilićević B. DraganRanđelović S. Marjan | 3 | 10 | Komunalna i sanitarna hidrotehnika | E |
| 20 | DH31234 | Water resources systems analysis | Milićević B. DraganPotić V. Olivera | 3 | 10 | Komunalna i sanitarna hidrotehnika | E |
| 21 | DH31235 | Irrigation scheduling under variable water availability and environmental concerns  | Trajković R. SlavišaTodorović R. Mladen | 3 | 10 | Vodoprivreda – korišćenje, uređenje i zaštita voda | E |
| 22 | DH31236 | Selected chapters in irrigation and drainage | Trajković R. Slaviša | 3 | 10 | Vodoprivreda – korišćenje, uređenje i zaštita voda | E |
| 23 | DH31237 | On-demand pressurized irrigation networks | Todorović R. Mladen | 3 | 10 | Vodoprivreda – korišćenje, uređenje i zaštita voda | E |
| 24 | DH31238 | Eco-efficiency of water systems | Todorović R. Mladen | 3 | 10 | Vodoprivreda – korišćenje, uređenje i zaštita voda | E |
| 25 | DH31239 | Climate change implications on water management | Todorović R. MladenTrajković R. Slaviša | 3 | 10 | Vodoprivreda – korišćenje, uređenje i zaštita voda | E |
| 26 | DH41 | PhD thesis - study and research 1 |  | 4 | 30 |  | M |
| 27 | DH51 | PhD thesis - study and research 2 |  | 5 | 30 |  | M |
| 28 | DH61 | PhD thesis - study and research 3 |  | 6 | 10 |  | M |
| 29 | DH62 | PhD thesis - realization and defense of thesis |  | 6 | 20 |  | M |
| Total ECTS |  |
| SF - Scientific or art field, T – course type (E-elective, M-mandatory ....)\* modify the table depending on the number of entering data using insert mode |