

**ОТЧЕТ НА  
КАТЕДРА „КОМПЮТЪРНИ НАУКИ“  
ЗА 2015 – 2016 г.**

**1. Учебна дейност**

**1.1. Учебни планове и програми.**

Учебният процес за студентите от специалностите в катедра „Компютърни науки“ – „Компютърни науки“ и „Информационно брокерство“ и през изминалата 2015-2016 академична година бе обезначен с учебни планове и учебни програми, обсъдени и приети от Катедрения съвет на катедрата. С оглед оптимизиране провеждането на учебните занятия, плановете на двете специалности са съгласувани с учебните планове на другите специалности от направление 4.6. „Информатика и компютърни науки“ в другите катедри на факултет „Информационни науки“ - „Информационни технологии“ и „Информационна сигурност“. В резултат на това координиране се постига обединяване в поток на студенти от различни специалности, изучаващи една и съща дисциплина. Кредитите на изучаваните дисциплини също са съобразени с останалите специалности и са уеднаквени.

По предложение на студентите и съобразявайки се с тяхното желание да обогатят знанията си в различни научни области, в учебния план са включени няколко нови избираеми дисциплини.

Учебните планове и програми на студентите редовна и задочна форма на обучение са напълно еднакви, като в задочна форма на обучение не се изучава английски език и спорт. Направените промени в учебните планове са в границите на допустимите 10%.

Учебните планове и програми за учебната 2015/2016 г. Включват информация за броя на кредитите за всяка дисциплина и необходимия брой часове (лекционни, семинарни и за самостоятелна подготовка) за получаване на тези кредити.

В катедрата се обучават и студенти в надстроечна програма по специалност „Информационно брокерство“, даваща възможност на притежаващите образователната степен „специалист“ или „профессионален бакалавър“, да повишат образоването си в ОКС „бакалавър“.

Високата посещаемост на студентите е предпоставка за ефективно протичане на лекциите и семинарните упражнения. По време на учебната година, преподавателите от катедрата осъществяват текущ контрол чрез тестове, курсови работи и проекти.

Учебните планове и програми за специалностите след актуализацията им са приети съответно на Катедрен, Факултетен и Академичен съвет, и са утвърдени от Ректора на УниБИТ.

Броят на приетите студенти в специалности на катедра „Компютърни науки“ за академичната 2015-2016 г. е показан в таблицата.

| OKC                  | Специалност              | Форма на обучение |         |              | Общо |
|----------------------|--------------------------|-------------------|---------|--------------|------|
|                      |                          | Редовна           | Задочна | Дистанционна |      |
| Бакалавър            | Компютърни науки         | 27                | 19      | -            | 46   |
|                      | Информационно брокерство | 20                | 17      | -            | 37   |
| Бакалавър надстройки | Информационно брокерство | 0                 | 8       | -            | 8    |
| Магистър             | Електронен бизнес и      | 3                 | 16      | -            | 19   |

|                                  |   |   |    |  |            |
|----------------------------------|---|---|----|--|------------|
|                                  | електронно управление   |   |    |  |            |
|                                  | Технологично предприемачество и иновации в информационните технологии | 0 | 0  |  | 0          |
|                                  | Софтуерно инженерство   | 3 | 44 |  | 47         |
|                                  | Информационни технологии и финансов инженеринг                        | 0 | 14 |  | 14         |
| <b>Общо бакалаври и магистри</b> |   |   |    |  | <b>171</b> |

## **1.2. Нови форми на организация на учебния процес и учебно-преподавателската дейност.**

Учебният процес в специалностите на катера „Компютърни науки“ се осъществява съобразно с нормативните документи за висшето образование и съвременните европейски стандарти. Наред с традиционните форми – лекции и упражнения, преподавателите от катедрата активно използват нови форми на организация на учебния процес и учебно-преподавателска дейност като електронни презентации и мултимедийни версии на учебните дисциплини, електронно обучение, работа по проекти, и др. Ежегодно се актуализира учебното съдържание в съответствие с най-новите достижения в областта на информационните системи, програмирането, базите данни.

## **1.3. Практики и стажове.**

През отчетната учебна година по-голямата част от студентите от катедра „Компютърни науки“ проведоха своите летни учебни практики във фирми, благодарение на проекта, финансиран по ОП „Развитие на човешките ресурси“, съфинансирана от Европейския социален фонд. Чрез този проект, студентите имаха възможност да работят в ИТ фирми, където в реална работна среда се запознават със съвременните хардуерни и софтуерни продукти.

## **1.4. Подпомагане на обучението и развитието на студентите. Индивидуална работа с тях.**

Всеки преподавател от катедрата има фиксирани дни и часове за консултации, но се осигурява непрекъснат контакт със студенти и извън регламентираното време.

Посредством тясна работа със студентите се въвеждат различни елементи в обучението. Чрез поставяни индивидуални задания на студентите и провежданите обсъждания по време на консултациите, те се запознават с най-новите постижения в областта на информационните системи и технологии.

Всички студенти от IV курс провеждат задължителна специализираща практика, по време на която студентите осъществяват теоретични и приложни изследвания в областта на ИТ, запознават се с конкретен научен проблем и го описват в курсов проект. През цялото време на подготовката му студентите поддържат контакт с курсовия си ръководител, който ги наಸърчава в разширяването и задълбочаването на познанията им в областта, подпомага изграждането на уменията им за формулиране и защита на научна теза. Курсовият проект прераства в дипломна работа за студентите, които отговарят на установените нормативни условия.

## **1.5.Дипломиране.**

През академичната 2015/2016 г. в катедра „Компютърни науки”, успешно са се дипломирали 84 студента, от тях 55 бакалаври и 29 магистри.

| Специалност  | Записани<br>студенти 2012/13 |                | Дипломирани<br>студенти 2015/16 |                | Прекъснали<br>студенти 2015/16 |                |
|--|------------------------------|----------------|---------------------------------|----------------|--------------------------------|----------------|
|  | Редовно<br>об.               | Задочно<br>об. | Редовно<br>об.                  | Задочно<br>об. | Редовно<br>об.                 | Задочно<br>об. |
| <b>Бакалаври</b>   |                              |                |                                 |                |                                |                |
| Информационно брокерство   | 22                           | 18             | 14                              | 8              | 8                              | 7              |
| Компютърни науки   | 21                           | 18             | 15                              | 14             | 4                              | 4              |
| Информационно брокерство-<br>надстроечна програма                      | 0                            | 8              | 0                               | 4              | 0                              | 1              |
| <b>Магистри</b>  |                              |                |                                 |                |                                |                |
| Електронен бизнес и електронно управление                              | 5                            | 11             | 1                               | 6              | 2                              | 1              |
| Технологично предприемачество и инновации в информационните технологии | 0                            | 0              | -                               | 2              | 0                              | 0              |
| Софтуерно инженерство  | 5                            | 11             | 2                               | 3              | 2                              | 3              |
| Информационни технологии и финансов инженеринг                         | 3                            | 13             | 0                               | 15             | 1                              | 0              |

## 1.5. Магистърски програми.

През учебната 2015/2016 г. в катедрата се предлага обучение в **четири магистърска програми**.

Магистърската програма „**Електронен бизнес и електронно управление**“ е с продължителност на обучение три семестъра. Специалността се предлага и в четирисеместриален срок на подготовка за неспециалисти в областта. Обучението на студентите се осъществява в редовна и задочна форма. Студентите да придобиват компетенции за анализ, проектиране, внедряване и управление на информационните и комуникационните технологии и системи в областта на електронното управление и електронния бизнес. Магистърската програма е разделена на две направления “Електронен бизнес” и “Електронно управление”. Студентите изучават задължителни дисциплини, полагащи широка основа, което им дава възможност да специализират по-тясно във всяко едно направление чрез набор от изборни дисциплини.

Магистърската програма „**Технологично предприемачество и инновации в информационните технологии**“ е с продължителност на обучението три семестъра, в редовна и задочна форма. Учебният план на специалността е съобразен със съвременните концепции и перспективи за управление и предприемачество в областта на информационните технологии. Студентите получават знания за спецификата на техническите и програмните методи и средства за управление, финансов мениджмънт, маркетинг, трансфер на технологии и инновации.

Магистърската програма „**Софтуерно инженерство**“ (Software Engineering) се предлага на английски език. Основната цел е студентите да получат основни компетенции в областта на софтуените технологии и производството на софтуерни продукти, системи и услуги. В разработката на магистърската програма, както и в нейното провеждане, се

включат експерти и гост-преподаватели, работещи в софтуерната индустрия. Програмата предвижда и участие на студентите в стажове, както и в индустриални проекти. Програмата е разработена в съответствие с стандартите на ACM/IEEE, както и на Европейската рамка за електронни компетенции.

Магистърската програма „**Информационни технологии и финансов инженеринг**“ осигурява широк поглед върху модерните технологии за финансов мениджмънт, както и оптимизирането на съществуващите технологични и информационни активи при търговията с ценни книжа на фондовите борси, а също и върху използването на различни платформи за развиване на нови софтуерни продукти и услуги при търговията с ценни книжа с оглед постигането на оптимални бизнес резултати. Глобализацията на пазарите, бързото развитие на финансовите инновации и конкуренцията изискват прилагането на нови знания в областта на финансите и в частност върху развитието на нови технологии на капиталовите пазари. Програмата дава възможност за синергия между знанията и уменията в областите на информационните технологии, финансите, респективно в търговията с ценни книжа на фондовите борси, адекватни на съвременните условия. Целта на настоящата магистърска програма е придобиване на задълбочени познания, практически умения и способности за използване на информационните технологии и системи за решаване на финансови задачи, както и такива свързани и с анализ на финансовия и инвестиционния рисков; анализ, проектиране, внедряване и поддържане на информационните технологии и системи в областта на финансите, банковото и борсовото дело; решаване на проблеми в областта на управлението на финансовия инженеринг, изграждане на инвестиционни стратегии, управлението на риска и оптимизацията на портфейла.

Учебните планове и програми за магистърските програми са приети съответно на Катедрен, Факултетен и Академичен съвет, и са утвърдени от Ректора на УниБИТ.

## **1.6. Кадрово състояние на катедрата**

През академичната 2015/2016 преподавателският състав на катедра „Компютърни науки“ включващ 19 преподаватели, от които: 8 професори, 5 доценти, 3 гл. асистента и 3 асистента.

Списък на преподавателите и натовареност:

|    | Име  | Натовареност за 2015/2016 г. | Норматив   | Натовар. в % |
|----|--|------------------------------|------------|--------------|
| 1. | <b>Проф. д-р Румен Василев Николов – чл. 67, ал.1, т.1; 8ч.</b>            | <b>440</b>                   | <b>300</b> | <b>146%</b>  |
| 2. | <b>Проф. д.и.к.н. Стоян Георгиев Денчев - чл. 67, ал.1, т.1 ; 8ч.</b>      | <b>330</b>                   | <b>140</b> | <b>236%</b>  |
| 3. | <b>Проф. д.т.н. Александър Светославов Ников - чл. 67, ал.1, т.1 ; 2ч.</b> | <b>130</b>                   | <b>90</b>  | <b>144%</b>  |
| 4. | <b>Проф. д-р Галина Стоянова Панайотова - чл. 67, ал.1, т.1 ; 8ч.</b>      | <b>390</b>                   | <b>360</b> | <b>108%</b>  |
| 5. | <b>Проф. д.м.н. Николай Маринов Николов – чл. 111; 4ч.</b>                 | <b>180</b>                   | <b>180</b> | <b>100%</b>  |
| 6. | <b>Проф. д.м.н Радослав Димов Павлов чл. 111; 4ч.</b>                      | <b>360</b>                   | <b>180</b> | <b>200%</b>  |
| 7. | <b>Проф. д.т.н. Елена Дикова Шойкова Чл. 68 (1) т.1: 4ч.</b>               | <b>225</b>                   | <b>180</b> | <b>125%</b>  |
| 8. | <b>Проф. д-р Георги Георгиев Димитров –</b>                                | <b>470</b>                   | <b>180</b> | <b>261%</b>  |

|               |  |                   |                   |              |
|---------------|--|-------------------|-------------------|--------------|
|               | <b>чл. 67, ал.1, т.1 ; 4ч.</b>   |                   |                   |              |
| <b>9.</b>     | <b>Доц. д-ик.н. Димитър Грозданов Христозов - чл. 111; 6ч.</b>   | <b>370</b>        | <b>270</b>        | <b>137%</b>  |
| <b>10.</b>    | <b>Доц д-р Александър Иванов Шикаланов - чл. 111; 8ч.</b>  | <b>660</b>        | <b>360</b>        | <b>183%</b>  |
| <b>11.</b>    | <b>Доц. д-р Евгения Петрова Ковачева чл. 67: 8ч.</b>   | <b>790</b>        | <b>360</b>        | <b>219%</b>  |
| <b>12.</b>    | <b>Доц. д-р Красимир Тодоров Георгиев – чл.111 ср.; 4ч</b>   | <b>270</b>        | <b>180</b>        | <b>150%</b>  |
| <b>13.</b>    | <b>Гл.ас. д-р Стефка Янкова Толева-Стоименова - чл. 67, ал.1, т.1 ; 8ч.</b>                              | <b>майчинство</b> | <b>майчинство</b> | <b>-</b>     |
| <b>14.</b>    | <b>Ас. д-р Боян Колев Жеков - чл. 67, ал.1, т.1 ; 8ч.</b>  | <b>520</b>        | <b>360</b>        | <b>144%</b>  |
| <b>15.</b>    | <b>Ас. Илия Георгиев Вукарски - чл. 68, ал.1, т.1 ; 8ч.</b>  | <b>450</b>        | <b>360</b>        | <b>125%</b>  |
| <b>16.</b>    | <b>Ас. д-р Велиян Александров Димитров - чл. 68, ал.1, т.1 ; 8ч.</b>                                     | <b>555</b>        | <b>360</b>        | <b>154%</b>  |
| <b>17.</b>    | <b>Олег Димитров Константинов – чл. 67, ал.1 т.1; 4 часа</b>   | <b>240</b>        | <b>180</b>        | <b>122%</b>  |
| <b>18.</b>    | <b>Йосиф Аврамов Аврамов – чл. 67, ал. 1, т.1;<br/>8 часа (допълва норматива с магистърски програми)</b> | <b>45</b>         | <b>360</b>        | <b>0.13%</b> |
| <b>19.</b>    | <b>Ас. д-р Даниела Георгиева Павлова чл.67, ал. 1, т.1; 8 ч.</b>   | <b>585</b>        | <b>360</b>        | <b>163%</b>  |
| <b>Средно</b> |  |                   |                   | <b>151%</b>  |

Хабилитираният състав в катедрата подпомага активно научната и преподавателска дейност на асистентите.

### **1.7. Лични квалификации на преподавателите.**

Преподавателите от катедра „Компютърни науки“ имат висока професионална подготовка в различни сегменти на компютърните науки. Членовете на катедрата, включително и докторантите, работят активно по съвременни научни задачи и проблеми в области като програмиране, информационни системи и технологии, бази данни. Потвърждение за тяхната висока професионална подготовка и амбиция за усъвършенстване е активното им участие в научни проекти и докладваните получени резултати на престижни национални и международни форуми. Свидетелство за високата им професионална квалификация са и цитиранията в чужбина на техни публикации през изминалата година. Повишаването на квалификация на преподавателите от Катедрата е резултат преди всичко от личното им отношение и мотивация.

Част от хабилитираният състав на катедра „Компютърни науки“ са гост преподаватели в други университети, като Софийски университет, Великотърновски университет, Американски университет в България и изследователи Българската академия на науките и други научни организации.

## 2. Научно-изследователска дейност

Научно-изследователската дейност на преподавателите от катедра „Компютърни науки” е обобщена по количествени показатели в следната таблица:

|     | <b>Показатели</b>   | <b>Количество</b> |
|-----|---|-------------------|
| 1.  | Брой публикации в български издания, включени в реферативни бази данни                      | 22                |
| 2.  | Брой публикации в чуждестранни издания, включени в реферативни бази данни                   | 68                |
| 3.  | Брой публикации в български и чуждестранни издания, които не се реферират                   |                   |
| 4.  | Брой представени доклади на конференции в страната и чужбина, отпечатани с пълен текст      | 51                |
| 5.  | Брой представени доклади на конференции, отпечатани с резюмета или непубликувани            | 2                 |
| 6.  | Брой монографии (индивидуални или колективни)   | 1                 |
| 7.  | Брой учебници и учебни помагала   | 9                 |
| 8.  | Брой национални (образователни и изследователски) проекти                                   | 3                 |
| 9.  | Брой международни (образователни и изследователски) проекти                                 | 18                |
| 10. | Брой забелязани цитирания   | 277               |
| 11. | Брой отзиви от други автори за собствени научни трудове                                     | -                 |
| 12. | Брой редактирани научни монографии и сборници   | -                 |
| 13. | Брой съставени научни монографии и сборници   | 1                 |
| 14. | Брой рецензии и становища в академични процедури  | 17                |
| 15. | Брой на рецензии и отзиви в списания или за конференции                                     | -                 |
| 16. | Брой участия в редколегии на научни списания и поредици в България                          | -                 |
| 17. | Брой участия в редколегии на научни списания и поредици в чужбина                           | -                 |
| 18. | Брой получени национални и/или международни научни награди                                  | 1                 |
| 19. | Брой подадени заявки за защита на интелектуална собственост и издадени защитни документи    | -                 |
| 20. | Брой получени свидетелства за интелектуална собственост, поддържани за периода на оценяване | -                 |
| 21. | Брой специализации в чужбина  | -                 |
| 22. | Брой квалификационни курсове в България   | -                 |
| 23. | Брой ръководени докторанти  | 4                 |
| 24. | Брой научни организации и научни мрежи, в които членувате                                   | 41                |

### **1. ПУБЛИКАЦИИ В БЪЛГАРСКИ ИЗДАНИЯ (НА БЪЛГАРСКИ ИЛИ ЧУЖДЕЗИК), ВКЛЮЧЕНИ В РЕФЕРАТИВНИ БАЗИ ДАННИ**

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### **3. ПУБЛИКАЦИИ В БЪЛГАРСКИ И ЧУЖДЕСТРАННИ ИЗДАНИЯ, КОИТО НЕ СЕ РЕФЕРИРАТ**

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## ПРЕДСТАВЕНИ ДОКЛАДИ НА КОНФЕРЕНЦИИ, ОТПЕЧАТАНИ С РЕЗЮМЕТА ИЛИ НЕПУБЛИКУВАНИ

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5. Проект: TEMPUS - PICTET 2014-2017 EQF-based professional ICT training for Russia and Kazakhstan
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## **12. ОТЗИВИ ОТ ДРУГИ АВТОРИ ЗА СОБСТВЕНИ НАУЧНИ ТРУДОВЕ**

## **13. РЕДАКТОРСТВО НА НАУЧНИ МОНОГРАФИИ И СБОРНИЦИ**

### **14. СЪСТАВЕНИ НАУЧНИ МОНОГРАФИИ И СБОРНИЦИ**

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3. Проект N: НИП-2016-09 „Създаване и изследване на математически модели с интелигентни приложения”, УниБИТ, 2016 - ръководител проект.

## **15. УЧАСТИЯ В РЕДКОЛЕГИИ НА НАУЧНИ СПИСАНИЯ И ПОРЕДИЦИ В БЪЛГАРИЯ**

## **16. УЧАСТИЯ В РЕДКОЛЕГИИ НА НАУЧНИ СПИСАНИЯ И ПОРЕДИЦИ В ЧУЖБИНА**

### **17. НАЦИОНАЛНИ И/ИЛИ МЕЖДУНАРОДНИ НАУЧНИ НАГРАДИ**

1. Zbigniew Gackowski Memorial Award for excellent and the advancement of Informing Science

## **18. СПЕЦИАЛИЗАЦИИ В ЧУЖБИНА**

## **19. КВАЛИФИКАЦИОННИ КУРСОВЕ В БЪЛГАРИЯ**

## **20. РЪКОВОДСТВО НА ДОКТОРАНТИ**

### **20.1. Докторанти в катедра „Компютърни науки”**

#### **Редовна форма**

Илия Георгиев Вукарски, АСОИУ, срок 01.01.2016 г. – 31.12.2018 г., научни ръководители проф. д-р Галина Панайотова, доц. Александър Шикаланов.

**Задочна форма**

Явор Илиев Русинов, АСОИУ, срок 01.01.2016 г. – 31.12.2019 г., научни ръководители проф. д-р Галина Панайотова, доц. Йосиф Аврамов.

Димитрина Бояджиева, АСОИУ, 01.01.2016 г. – 31.12.2019 г., научен ръководител: Георги Г. Димитров.

Милен Стефанос Куцакис, АСОИУ 01.09.2014- 01.09.2018 г., научен ръководител: Николай Стоянов и Велиян Димитров.

**20.2. Докторанти извън катедра „Компютърни науки”****Задочна форма**

Наталия Паликова, ОКИН, срок 01.01.2016 г. – 31.12.2019 г., научни ръководители: доц. Евгения Ковачева, проф д. ик. н. Евгений Сачев.

**21. ЧЛЕНСТВО В НАУЧНИ ОРГАНИЗАЦИИ И ДРУГИ НАУЧНИ МРЕЖИ**

1. Member of Center for multicultural communication and Mediation – Sofia University St. Kliment Ohridski, Dept of Modern and Classical Filology
2. Member of the Institute of Technology and Development (ITD) Foundation
3. Member of International SUMMIT on ICT in Education: EDUsummit - Research-informed strategies to address educational challenges in a digitally networked world
4. Organizing committee, Ergonomics, Secretary, XV International Congress on Occupational Risk Prevention, ORP2015, Santiago de Chile, Chile, 24-26 November, 2015
5. Organizing committee, Ergonomics, Secretary, XVI International Congress on Occupational Risk Prevention, ORP2016, Cartagena, Colombia, 5-7 October, 2016
6. Professional Group Adaptivity and User Modeling in Interactive Software Systems
6. Professional Group Adaptive Hypertext & Hypermedia Human Resources
7. IEEE Computer Society Learning Technology Task Force (LTTF)
8. CHI International Advising Task Force;
9. International ACM SIGCHI Educational Resource Development Group
10. IEA Technical Committee TC11 “Human-Computer Interaction”;
11. Occupational Risk Prevention Advisory Board;
12. ACM SIGCHI International Issues Committee
13. Advisory Board, Occupational Risk Prevention
14. Editorial board of the journal Working and Living Environmental Protection
15. Съюз по електроника, електротехника и съобщения (CEEC), член на УС
16. E-Gov национална експертна група, модератор
17. OpenDataBG – Национална експертна група, модератор
18. Informing Science Institute (fellow)
19. International Institute for Applied Knowledge Management (fellow)