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умумтехник масалаларни ечишга тайёрлаш	304	Gulxumor Yusupova, Shohsanam Sobirova.	Universitet talabalariga tarjima metodlari va usullarini o'rgatish	369
O'g'ilo'y Urazova.		Erkin Imamnazarov.	Bo'lajak muhandislarni kasbiy tayyorlashda raqamli texnologiya vositasilaridan foydalanish	372
Talaba qizlarning oilaviy hayotga qadriyatli munosabatini rivojlantirish	309	Мохигул Каримова.	Мактабгача ёшдаги болаларнинг мантикий фикрлашини шакллантиришда ўйин фаолияти	375
Айбек Игилков.		Sunnatullo Do'stov.	IV sinf "Tabiatshunoslik" fani doirasida o'quvchi ekologik tafakkurini shakllantirishda interfaol metodlardan foydalanish	378
Educational and development	311	Ёқутхон Эркабаева.	Матбуотнинг номоддий маданий меросни асрашда ахборот-коммуникатив ва тахдлий вазифалари мазмунининг ўзгариш тенденциялари	381
Тўйчи Ахмедов.		Мuyassar Xidoyatova.	Mathematical foundations of processing the results of astronomical	384
Суд ҳокимиятида коллегиялик	314	Qaxramon Mashrapov.	Texnik oliy ta'lim muassasalaridagi "Mehnat muhofazasi va texnika xavfsizligi" mutaxassislarini o'qitishda kredit-modul tizimining o'rni	386
Gulxumor Yusupova, Shohsanam Sobirova.		Диана Якубова.	Креативное мышление как объект психолого-педагогических исследований	390
Sinxron tarjimonlarni tayyorlash va sinxron tarjimonga qo'yilgan talablar	318	Ойбек Худайберdiyev.	"Tarbiya" fani orqali o'quvchilarda konfliktologik madaniyatni shakllantirishning didaktik imkoniyatlari	393
Умидбек Курбонов.		Зухра Султанова.	Таълимда ахборот-компьютер технологияларидан фойдаланиш имкониятлари	395
Профессионал таълим тизимида моддий-техник базанинг аҳамияти	321	Sherzod Egamqulov.	Elektron ta'lim resurslaridan foydalanib bo'lajak o'qituvchilarning kasbiy kompetentligini rivojlantirish	398
Matluba Usmonova.		Мохигул Каримова.	Мактабгача ёшдаги болаларнинг мантикий фикрлашини шакллантиришда ўзбек халқ ўйинларининг тарбиявий аҳамияти	402
Ajdodlarning boy merosiga tayanadigan milliy va umuminsoniy g'oyalar	323	Raya Auezova.	The organization of independent education of future teachers	405
Алишер Эрнazarov.		Abduvali Ernazarov.	Talabalarda sog'lom turmush tarzini shakllantirishning nazariy asoslari	408
Олий таълим муассасаларида ўқув машғулотлари вазифаларни шакллантириш натижасида ҳал этилувчи педагогик вазифалар	326	Музаффар Тўраев.	Бўлажак мутахассисларнинг ахборот-коммуникатив компетентлигини ривожлантириш зарурияти ва ўзига хос хусусиятлари	410
Dinara Tengeltaeva.		Sarvinoz Ibroximova.	Sun'iy intellektning kelib chiqishi va hozirgi davrda jamiyat hayotidagi ahamiyati	412
The network "bumerang" technology in teaching "information technologies in education"	329	Дилафруз Суфиева.	О качественных изменениях в нормотворческом процессе	415
Мухаммадбобур Муминов.		Panji To'rayev.	Milliy kurash bo'yicha mashg'ulotlarni tashkil etish va uni o'tkazishda pedagogik jihatlar	419
Развитие креативной компетентности курсантов военно-учебных заведений	332	Ilkhomjon Tukhtasinov, Ra'no Ziyotova.	The main parameters of oral interpreting	422
O'rinposhsha Qalandarova.		Aziza Rajapova.	Astronomiyadan laboratoriya ishlarini o'tkazishda raqamli texnologiyalardan foydalanish	425
Tehnologiya o'qituvchilarini axborot olishini kompetensiyaviy rivojlantirish pedagogik muammo sifatida	336	Eldor Kurbanov.	Zamonaviy demokratik taraqqiyotning kontseptual va institutsional asoslari	428
Курбанали Рузиев.		Nigora Safarbayeva.		
Бўлажак ўқитувчиларни кластерли лойиҳалар орқали касбий фаолиятга тайёрлаш	339			
Shaxnoza Yakubova.				
Sharq allomalarining pedagogik ta'limotlari asosida talabalarda pozitiv dunyoqarashning shakllanganlik darajasini aniqlash bo'yicha tajriba-sinov ishlari	342			
Яшнарьбек Шарипов.				
Методика проведения инновационного урока по материаловедению	345			
Gulmira Umurzakova.				
Use of innovative technologies in organizing educational and educational processes in preschool educational organizations	348			
Дўстназар Химматалиев.				
Олий таълим муассасаларида фанлараро узвийликни таъминлаш орқали таълим сифати ва самарадорлигини ошириш	351			
Yoqutxon Najmiddinova.				
"Kasbiy tafakkur" tushunchasining pedagogik-psixologik talqini	353			
Kamola Abrorxonova, Zulayho ismatova, Muhammad dehqonboyev.				
Boshlang'ich sinf o'quvchilarida tolerantlikni shakllantirish pedagogik muammo sifatida	356			
Гулмира Ризамухамедова.				
Роль инновационных методов в развитии профессиональных навыков студентов	358			
Nigora Sharapova.				
The role of interactive methods in the development of student critical thinking	361			
Mirolim Tursunov.				
Oliy ta'lim muassasalarida talabalarni o'qitishda elektron ta'lim resurslarining funksional imkoniyatlari	363			
Гулзода Ибрагимова.				
Бўлажак муҳандислик йўналиши талабаларини муҳандислик ўйинлари асосида инновацион фаолиятга тайёрлаш шарт-шароитлари	366			

MATHEMATICAL FOUNDATIONS OF PROCESSING THE RESULTS OF ASTRONOMICAL

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Annotation

These objects are very far away from Earth; moreover, they are the most interested and attractive objects for human beings. Human beings are continuously developing and installing the observational facilities (telescopes) for solving the mystery of the Universe. The various photometric bands/filters are associated with these telescopes, and each band show different effective wavelength to detect the information about the interior physical phenomenon.

Keywords: constrain the dynamism and evolution, type materials, information, objects, dynamics, universe.

Annotatsiya

Ushbu maqolaga ko'ra, obyektlar yerdan juda uzoqda, bundan tashqari, ular odamlar uchun eng qiziq va jozibali obyektlardir. Insoniyat Koinot sirini hal qilish uchun kuzatuv inshootlarini (teleskoplarni) doimiy ravishda rivojlantirmoqda va o'rnatmoqda. Turli xil fotometrik bantlar/filtrlar ushbu teleskoplar bilan bog'langan va har bir tasma ichki fizik hodisa haqidagi ma'lumotlarni aniqlash uchun turli xil samarali to'lqin uzunligini ko'rsatadi.

Kalit so'zlar: dinamizm va evolyutsiyani cheklash, turdagi materiallar, ma'lumotlar, obyektlar, dinamika, koinot.

Аннотация

Эти объекты находятся очень далеко от Земли; более того, они являются наиболее интересными и привлекательными объектами для людей. Люди постоянно разрабатывают и устанавливают средства наблюдения (телескопы) для разгадки тайны Вселенной. С этими телескопами связаны различные фотометрические диапазоны фильтры, и каждый диапазон показывает различную эффективную длину волны для обнаружения информации о внутреннем физическом явлении.

Ключевые слова: сдерживание динамизма и эволюции, типовые материалы, информация, объекты, динамика, мироздание.

As a result, the iron in our blood, required oxygen of our breath, carbon, nitrogen, etc. of our tissues and calcium in our bones was formed through the fusion of smaller atoms at the center of a star. There are the several theories for explaining the formation of the planets, stars and other astronomical objects. These theories are guide to us for understanding the truth of formation of the Universe, but these are not truth itself. Consequently, these said theories are continuously revised and to keep leading us in the right direction. The astrophysics is a deeper understanding of the Universe and the information about the evolution of the Universe is continually increased through the analysis of new collected data. Moreover, this information is further leading the new concepts/models for describing the our present Universe and its future. Other words, the astrophysics are a scientific branch to understand the formation of planets, stars, pulsars, galaxies etc. and their associated physical phenomenon. The revolutionary changes has been occurring in the literature of astrophysical study due to the incorporation of new technology and algorithms. In the 19th and 20th centuries, the astronomical studies had been carried out through the photoelectric and photographic data. The astronomical data had been collected through the various

ground based observatories and space missions [1, 13].

Observational astronomy is a division of astronomy that is concerned with recording data about the observable universe, in contrast with theoretical astronomy, which is mainly concerned with calculating the measurable implications of physical models. It is the practice and study of observing celestial objects with the use of telescopes and other astronomical instruments. As a science, the study of astronomy is somewhat hindered in that direct experiments with the properties of the distant universe are not possible. However, this is partly compensated by the fact that astronomers have a vast number of visible examples of stellar phenomena that can be examined. This allows for observational data to be plotted on graphs, and general trends recorded. Nearby examples of specific phenomena, such as variable stars, can then be used to infer the behavior of more distant representatives. Those distant yardsticks can then be employed to measure other phenomena in that neighborhood, including the distance to a galaxy. Galileo Galilei turned a telescope to the heavens and recorded what he saw. Since that time, observational astronomy has made steady advances with each improvement in telescope technology. Subdivisions The Crab Nebula as seen in various wavelengths A traditional

division of observational astronomy is based on the region of the electromagnetic spectrum observed: Radio astronomy detects radiation of millimetre to decametre wavelength. The receivers are similar to those used in radio broadcast transmission but much more sensitive. See also Radio telescopes. Infrared astronomy deals with the detection and analysis of infrared radiation (this typically refers to wavelengths longer than the detection limit of silicon solid-state detectors, about 1 μm wavelength). The most common tool is the reflecting telescope, but with a detector sensitive to infrared wavelengths. Space telescopes are used at certain wavelengths where the atmosphere is opaque, or to eliminate noise (thermal radiation from the atmosphere). Optical astronomy is the part of astronomy that uses optical instruments (mirrors, lenses, and solid-state detectors) to observe light from near-infrared to near-ultraviolet wavelengths. Visible-light astronomy, using wavelengths detectable with the human eyes (about 400–700 nm), falls in the middle of this spectrum. High-energy astronomy includes X-ray astronomy, gamma-ray astronomy, and extreme UV astronomy. Occultation astronomy is the observation of the instant one celestial object occults or eclipses another. Multi-chord asteroid occultation observations measure the profile of the asteroid to the kilometre level. Addition to using electromagnetic radiation, modern astrophysicists can also make observations using neutrinos, cosmic rays or gravitational waves. Observing a source using multiple methods is known as multi-messenger astronomy [2, 32]. Ultra HD photography taken at La Silla Observatory.

The atmosphere is opaque at the wavelengths used by X-ray astronomy, gamma-ray astronomy, UV astronomy and (except for a few wavelength “windows”) far infrared astronomy, so observations must be carried out mostly from balloons or space observatories. Powerful gamma rays can, however be detected by the large air showers they produce, and the study of cosmic rays is a rapidly expanding branch of astronomy. Important factors For much of the history of observational astronomy, almost all observation was performed in the visual spectrum with optical telescopes. While the Earth’s atmosphere is relatively transparent in this portion of the electromagnetic spectrum, most telescope work is still dependent on seeing conditions and air transparency, and is generally restricted to the night time. The seeing conditions depend on the turbulence and thermal variations in the air. Locations that are frequently cloudy or suffer from atmospheric turbulence limit the resolution of observations. Likewise the presence of the full Moon can brighten up the sky with scattered light, hindering observation of faint objects. For observation purposes, the optimal location for an optical telescope is undoubtedly in outer space. There the telescope can make observations without being affected

by the atmosphere. However, at present it remains costly to lift telescopes into orbit. Thus the next best locations are certain mountain peaks that have a high number of cloudless days and generally possess good atmospheric conditions (with good seeing conditions) [3, 11]. The peaks of the islands of Mauna Kea, Hawaii and La Palma possess these properties, as to a lesser extent do inland sites such as Llano de Chajnantor, Paranal, Cerro Tololo and La Silla in Chile. These observatory locations have attracted an assemblage of powerful telescopes, totalling many billion US dollars of investment. The darkness of the night sky is an important factor in optical astronomy. With the size of cities and human populated areas ever expanding, the amount of artificial light at night has also increased. These artificial lights produce a diffuse background illumination that makes observation of faint astronomical features very difficult without special filters. In a few locations such as the state of Arizona and in the United Kingdom, this has led to campaigns for the reduction of light pollution. The use of hoods around street lights not only improves the amount of light directed toward the ground, but also helps reduce the light directed toward the sky. Atmospheric effects (astronomical seeing) can severely hinder the resolution of a telescope. Without some means of correcting for the blurring effect of the shifting atmosphere, telescopes larger than about 15–20 cm in aperture can not achieve their theoretical resolution at visible wavelengths. As a result, the primary benefit of using very large telescopes has been the improved light-gathering capability, allowing very faint magnitudes to be observed. However the resolution handicap has begun to be overcome by adaptive optics, speckle imaging and interferometric imaging, as well as the use of space telescopes. Information Technology may not have any difference when being referred to in general and for a good reason, a lot of people do take them to mean more or less the same thing. However, speaking in strict computing terms, there is indeed a difference between the two terms. Computer science refers to the processes used to create usable computer programs and applications together with all theory behind those processes. Information technology on the other hand refers to the application of computer programs to solve business processes. It is the application of technology in business. Information technology is very vast in terms of scale because it is applied virtually to any type of process that may require automation, from business, scientific research to the music industry, telecoms and banking. The two terms may also differ depending on school, where in some schools they may use one term to refer to a course that combines IT and Computer science modules. In schools that are more engineering based, they use the computer science term as an umbrella term for all theory relating to information technology. In such

cases they normally use the term 'computer engineering' to refer to the process of creating computer programs, both at system level and application level. In almost all schools, computer science courses involve learning about computer programming which involves learning the basics of programming methodology, data structures, algorithms, complexity theory all the way down to learning what makes an operating system work, although at computer science level, low level programming is not usually looked at in detail as it is dealt with in computer engineering courses.

The Earth is a space of dust on the astronomical scale; astronomy contains the physics of several stellar objects. These objects are very far away from Earth; moreover, they are the most interested and attractive

objects for human beings. Human beings are continuously developing and installing the observational facilities (telescopes) for solving the mystery of the Universe. The various photometric bands/filters are associated with these telescopes, and each band show different effective wavelength to detect the information about the interior physical phenomenon. The detected information can be used to constrain the dynamism and evolution model of interested stellar objects. Heavier atoms of matter are to be made in the interior part of stars and prescribed matter to pervade into space through the "Supernova burst". Our earth is also made of such type materials. Thus, every molecule of our bodies is contained the matter that once was subjected to the tremendous temperatures and pressures at the center of a star.

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TEXNIK OLIY TA'LIM MUASSASALARIDAGI "MEHNAT MUHOFAZASI VA TEXNIKA XAVFSIZLIGI" MUTAXASSISLARINI O'QITISHDA KREDIT-MODUL TIZIMINING O'RNI

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Annotatsiya

Ushbu maqolada "Mehnat muhofazasi va texnika xavfsizligi" mutaxassislarining bugungi kunda tutgan o'rni hamda shu mutaxassislarni o'qitishda, yetuk kadr qilib tayyorlashda kredit-modul tizimining o'rni batafsil yoritilgan. "Oliy ta'lim muassasalarida o'quv jarayonini kredit-modul tizimida tashkillashtirish" dasturidan foydaanish talabalarini fan bloklaridan o'zlashtirish ko'rsatkichlarini ko'tarishga yordam berishi tahlil qilingan.

Kalit so'zlar: kredit-modul, vatanparvar, mutaxassis, OTM, korxonona, talaba, ma'naviy-axloqiy, davlat, semestr, intellektual.

Аннотация

В данной статье подробно описывается роль специалистов «Охрана труда и техническая безопасность» на сегодняшний день, а также роль кредитно-модульной системы в подготовке этих специалистов и подготовке из них зрелых специалистов. Проанализировано, что использование программы «Организация учебного процесса в высших учебных заведениях в кредитно-модульной системе» будет способствовать повышению показателей усвоения студентами предметных блоков.

Ключевые слова: кредит-модуль, патриот, специалист, вуз, предприятие, студент, духовно-нравственный, государственный, семестровый, интеллектуал.