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August 19, 2021



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Turkey-(30)

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Azerbaijan- (31)

19.08.2021 | HALL-1 | SESSION-1**Kabul Local Time: 11³⁰-14⁰⁰****Ankara Local Time: 10⁰⁰-12³⁰****Meeting ID: 831 7504 7208 | Passcode: 191919****HEAD OF SESSION: Assist. Prof. Dr. Münir ŞAHİN**

Hakan BÜYÜKÇELEBİ Prof. Dr. Mahmut AÇAK	İnönü University	EURO 2020;DEKİ EN BAŞARILI DÖRT TAKIMIN GOL ORGANİZASYONLARININ ANALİZİ ANALYSIS OF GOAL ORGANIZATIONS OF THE FOUR MOST SUCCESSFUL TEAMS IN EURO 2020
Hakan BÜYÜKÇELEBİ Prof. Dr. Mahmut AÇAK KemalkURAK	İnönü University	PRE-GOAL PASS NUMBERS AND ATTACK TIMES OF THE MOST SUCCESSFUL FOUR TEAMS IN COPA AMERICA 2021
Dr. Seda SABAH	Ondokuz Mayıs University	BİREYSEL VE TAKIM SPORUYLA UĞRAŞAN BİREYLERİN SPORDA TÜKENMİŞLİK DÜZEYLERİNİN İNCELENMESİ
Dr. Öğr. Aydan ERMİŞ Dr. Seda SABAH Prof.Dr. Soner ÇANKAYA	Ondokuz Mayıs University	TAKIM VE BİREYSEL SPOR BRANŞINA SAHİP BİREYLERİN EGZERSİZ BAĞIMLILIK DÜZEYLERİNİN İNCELENMESİ
Assist. Prof. Dr. Münir ŞAHİN	Gaziosmanpaşa University	ÇOBAN LİDERLİK ÖLÇEĞİ: GÜVENİRLİK VE GEÇERLİK ÇALIŞMASI
Assist. Prof. Dr. Münir ŞAHİN	Gaziosmanpaşa University	VELİLERİN GÖZÜYLE SOSYAL MEDYA

19.08.2021 | HALL-2 | SESSION-1**Kabul Local Time: 11³⁰-14⁰⁰****Ankara Local Time: 10⁰⁰-12³⁰****Meeting ID: 831 7504 7208 | Passcode: 191919****HEAD OF SESSION: Prof. Dr. Serpil AYTAÇ**

Dr. Shahid Shah	College University Faisalabad, Pakistan	ASSESSMENT OF COLLEGE STUDENT'S MENTAL HEALTH DURING COVID-19 PANDEMIC: A CROSS-SECTIONAL STUDY IN PAKISTAN
Berkay DÖKEL Mustafa Çağatay YİĞİT Assoc. Prof. Dr. Zekavet KABASAKAL	Dokuz Eylül University	AN OVERVIEW OF STUDIES ON LONELINESS IN THE MENTAL HEALTH CONTEXT IN THE ERA OF COVID-19 PANDEMIC
Mehmet KARATAŞ Prof. Dr. Kahraman ÇATI Sami SEVER	Inonu University	THE EFFECT OF COVID-19 FEAR ON UNIVERSITY STUDENTS' UNPLANNED PURCHASING BEHAVIOR: THE EXAMPLE OF INONU UNIVERSITY
Mehmet KARATAŞ Prof. Dr. Kahraman ÇATI Sami SEVER	Inonu University	A RESEARCH TO DETERMINE THE EFFECT OF COVID-19 FEAR ON PLANNED PURCHASE BEHAVIOR: THE CASE OF INONU UNIVERSITY
Assist. Prof. Dr. Gülşen ÇETİN AYDIN Prof. Dr. Veysel BOZKURT Prof. Dr. Serpil AYTAÇ	Karamanoğlu Mehmetbey University Istanbul University Fenerbahçe University	THE PSYCHO-SOCIAL IMPACT OF THE COVID-19 PANDEMIC ON INDIVIDUALS: THE CASE OF TURKEY
Assist. Prof. Dr. Merve MAMACI Ümit KALAY	Fenerbahçe University, İstanbul Kent University	BURNOUT AND EMOTIONAL LABOR STRATEGIES: A REVIEW ON PSYCHOLOGICAL COUNSELORS
Dr. Mohammad Asif "Maroof Nabizada" 1, Dr. Gulbudeen "Elyar" Dr. Fardin "Faiz"	Taj Institute of Higher Education	INVESTIGATION OF H. PYLORI INFECTION CASES IN SOME LABORATORIES OF MAZAR-E-SHARIF

19.08.2021 | HALL-3 | SESSION-1



Kabul Local Time: 11³⁰-14⁰⁰



Ankara Local Time: 10⁰⁰-12³⁰



Meeting ID: 831 7504 7208 | Passcode: 191919

HEAD OF SESSION: Assoc. Prof. Dr. Vesile ŐEMŐEK

Assoc. Prof. Dr. Vesile ŐEMŐEK	Ahi Evren University	TÜRK DİNİ MÜSİKİSİ HAKKINDA
Assist. Prof. Dr. Gonca YAYAN Melike ERDURMUŐ	Gazi University	SANATIN GÜCÜ ve AFGANLI SANATÇI SHAMSİA HASSANİ'İN ESERLERİNE YANSIMALARI
Amadou Salami Edouard L. K. Koba Franck Amoussou	Université d'Abomey- Calavi (UAC), Bénin	LEXICAL PRAGMATIC TRANSFER IN AYOADE O. ADETOKUN'S MOPELOLA: THE TALE OF A BEAUTY GODDESS (2008): A SOCIOLINGUISTIC PERSPECTIVE
Őerife DOĐAN	Selcuk University	EXAMPLES OF EMBROIDERED PEŐKIRS
Őerife DOĐAN	Selcuk University	ON THE PROCESSING OF BUNDLES IN THE SUZENI TECHNIQUE

19.08.2021 | HALL-4 | SESSION-1**Kabul Local Time: 11³⁰-14⁰⁰****Ankara Local Time: 10⁰⁰-12³⁰****Meeting ID: 831 7504 7208 | Passcode: 191919****HEAD OF SESSION: Saeed Maleki Porazmiani**

Liaqat Ali Akhlaqi	Taj University	THE ECONOMIC EFFECTS OF TOURISM INDUSTRY ON THE LOCAL ECONOMY (CASE STUDY: BAMYAN PROVINCE OF AFGHANISTAN)
Mohammad Hassan Taheri	Balkh University	THE IMPACT OF WORKING CAPITAL MANAGEMENT ON PROFITABILITY OF THE COMPANIES
Abdul Hakim Haidary	Taj University	STUDY OF THE INTERNAL FACTORS AFFECTING FINANCIAL PERFORMANCE OF COMMERCIAL BANKS IN AFGHANISTAN
Mohammad Bashir Behrangi	Taj University	INVESTIGATING THE EFFECTIVE FACTORS ON FOREIGN INVESTMENT IN THE MANUFACTURING INDUSTRIES OF BALKH PROVINCE
M. Hussain Mohammadi	Taj University	DETERMINING DYNAMIC MARKET EQUILIBRIUM PRICE FUNCTION USING SUPERSTABLE METHOD
Mohammad Rafi Ulkar	Taj University	ASSESSMENT OF DA AFGHANISTAN BANK MONETARY POLICY OVER THE PAST FIVE YEARS (1392-1396)
Dr. Zeliha ŞAHİN Assoc. Prof. Dr. Mustafa Hakkı AYDOĞDU	Harran Üniversitesi	NECTARINE PRODUCTION IN TURKEY: A GENERAL ANALYSIS OF CHANGE IN RECENT YEARS
Assist. Prof. Dr. Pınar ÖZDEN CANKARA	Bilecik Şeyh Edebali Üniversitesi	ISRAEL'S PUBLIC DIPLOMACY ACTIVITIES FROM HASBARA INSTITUTION TO DIGITAL DIPLOMACY
Saeed Maleki Porazmiani	University of Ferrara, Ferrara, Italy	THE FUTURE OF GEOLOGICAL STUDIES IN AFGHANISTAN
Assist. Prof. Dr.. Yavuz CANKARA	Bilecik Sheikh Edebali University	IRAN'S INTERNATIONAL IMAGE AND PUBLIC DIPLOMACY ACTIVITIES AFTER 1979 REVOLUTION
Assist. Prof. Dr. Gholamhossein Shahini Fatemeh Shahamirian	Shiraz University	WAYS OF IMPROVING ENGLISH SPEAKING FLUENCY VIA PRODUCTIVE SKILLS OF SPEAKING AND WRITING: WHAT PRACTICAL TIPS ARE SUGGESTED?
Suresh Kumar	Maharishi Markandeshwar University	OPTICAL AND ANTI-BACTERIAL PROPERTIES OF CHEMICALLY SYNTHESIZED In-Doped ZnS NANOPARTICLES
GBADEBO, Christiana Teniola ABIOLA Samuel Olamilekan BABAYEJU, Adeshola Ajoke	University of Ilorin	INFLUENCE OF DIVORCE ON CHILDREN SOCIAL AND PSYCHOLOGICAL DEVELOPMENT IN ILORIN WEST LOCAL GOVERNMENT AREA OF KWARA STATE.

19.08.2021 | HALL-1 | SESSION-2**Kabul Local Time: 14³⁰-17⁰⁰****Ankara Local Time: 13⁰⁰-15³⁰****Meeting ID: 831 7504 7208 | Passcode: 191919****HEAD OF SESSION: Dr. K.R.Padma**

Faik GÖKALP	Kırıkkale University	A THEORETICAL RESEARCH FOR THE ANTICANCER PROPERTIES OF VITAMIN K
Fakhar-ud-Din, PhD, Parsa Gul, Khalil ur Rehman	Quaid-i-Azam University, Islamabad, Pakistan	NOVEL ANTICANCER DRUG LOADED NANOSYSTEM WITH ENHANCED EFFICACY AND REDUCED TOXICITY
Abdulsalam Rukayat Abiola Patricia Folake Omojasola Mushafau Adebayo Oke Akolade Jubril Sabiu Saheed	c Sheda Science and Technology, Abuja, Nigeria	SIGNIFICANCE OF WOOD ASH IN PRESERVING AND EXTENDING THE QUALITY AND SHELF LIFE OF TOMATO FRUITS
K.R.Padma K.R.Don	Womens University	THE IMPACT OF ENVIRONMENTAL WASTE DUE TO AFTERMATH COVID-19 PANDEMIC
Dmitriy Berillo Andrew Cundy Irina Savina	Kazakh National Medical University, Almaty, Kazakhstan	REMOVAL OF PHENOL DERIVATIVES FROM WATER USING CATALYTIC REACTION VS CROSS-LINKED BACTERIA REACTOR
Muhammad Saeed Muhammad Adeel	University Faisalabad Pakistan	DEVELOPMENT OF ACTIVE Co-Zno PHOTOCATALYST FOR PHOTODEGRADATION OF METHYL ORANGE
Oyediran, Wasiu Oyeleke (Ph.D.)	Federal University of Agriculture	LOW ACCESS TO AGRICULTURAL CREDIT: A CATALYST TO DECLINING AGRICULTURAL SECTOR IN NIGERIA
Yasin OZDEMIR Mehmet OZKAN Hakan GUNDUZ	Ataturk Horticultural Central Research Institute, Yalova, Turkey Tekirdag Food Control Laboratory, Tekirdag Turkey Yalova Bee Keeper Association, Yalova, Turkey	TOTAL PHENOL CONTENT AND ANTIOXIDANT ACTIVITY OF BEE POLLEN EXTRACTS FROM YALOVA REGION

19.08.2021 | HALL-2 | SESSION-2**Kabul Local Time: 14³⁰-17⁰⁰****Ankara Local Time: 13⁰⁰-15³⁰****Meeting ID: 831 7504 7208 | Passcode: 191919****HEAD OF SESSION: Dr. Bhavtosh Awasthi**

Assist. Prof. Dr. Gül ÖZKAN KIZILIRMAK	Gazi University	BOUNDS FOR ZAGREB INDICES OF A GRAPH USING FIBONACCI NUMBERS
Vakeel A. Khan Zahid Rahman	Aligarh Muslim University INDIA Paktia University Afghanistan	ON JORDAN TOTIENT OPERATOR
Emre Sevgi Şerife Büyükköse	Gazi University	BOUNDS FOR AND INDICES OF A GRAPH
R. Surendar M. Muthamilselvan	Bharathiar University	ON ONSET OF CHAOTIC BEHAVIOR IN OLDROYD FLUID
B. Kanimozhi M. Muthamilselvan	Bharathiar University	ENTROPY GENERATION IN A HYBRID NANOFLUID FILLED CYLINDRICAL ANNULUS
Dr. Bhavtosh Awasthi	JECRC University, Jaipur, Rajastha	BUSINESS STRATEGIES AND PLANNING USING QUEUEING MODEL WITH RENEGING OF CUSTOMERS
Liudmyla Hart Tetyana Firsova	Oles Honchar Dnipro National University	REGULARIZATION ALGORITHMS FOR SOLVING A COEFFICIENT INVERSE PROBLEM FOR AN ELLIPTIC EQUATION
D.S.Pathania Anjali Pathania	University Mohali Punjab (India)	LASER PULSE IN MICROSTRETCH THERMOELASTIC MEDIUM HAVING THERMOMECHANICAL INTERACTION

19.08.2021 | HALL-3 | SESSION-2



Kabul Local Time: 14³⁰-17⁰⁰



Ankara Local Time: 13⁰⁰-15³⁰



Meeting ID: 831 7504 7208 | Passcode: 191919

HEAD OF SESSION: Dr. Elena Sierikova

Elena Sierikova, PhD Pisnia Leonid, PhD	National University of Civil Defence of Ukraine	THE ENVIRONMENTAL SAFETY LEVEL INCREASING OF OIL STORAGE SYSTEMS
Elena Sierikova, PhD Pisnia Leonid, PhD	National University of Civil Defence of Ukraine	SEISMIC HAZARD INCREASING IN WATER- SATURATED SOILS
Nurullah ÖZDOĞAN Murat EYVAZ Ahmed ALBAHNASAW Havva AĞIR Ercan GÜRBULAK Ebubekir YÜKSEL	Uludag University Gebze Technical University	PORT WASTE RECEPTION FACILITIES AND CAPACITIES IN TURKEY
QURBANOVA FİDAN HİDAYƏT	Azerbaijan State Economic University	SOCIAL ANALYSIS OF NEGATIVE EFFECTS OF AZERBAIJAN OIL REFINING INDUSTRY ON ENVIRONMENT
Assoc. Prof. Dr. Ali Rıza DİNÇER İbrahim Feda ARAL	Namık Kemal University Namık Kemal University	PROCESSES IN PLASTIC RECOVERY FACILITY AND POINTS OF WASTE GENERATION
Assoc. Prof. Dr. Ali Rıza DİNÇER Elçin GENÇ	Namık Kemal University	REMOVAL OF CHROMIUM(VI) FROM LEATHER INDUSTRY WASTEWATER BY DIFFERENT ACTIVATED CARBON ADSORPTIONS
Selim Taşkaya	Artvin Choruh University	LOCAL DETERMINATION OF BROKEN POINT COORDINATES OF BUILDING PARCELS IN BLOCK RECONSTRUCTION ISLANDS BY LOCAL CASSINI METHOD

19.08.2021 | HALL-4 | SESSION-2



Kabul Local Time: 14³⁰-17⁰⁰



Ankara Local Time: 13⁰⁰-15³⁰



Meeting ID: 831 7504 7208 | Passcode: 191919

HEAD OF SESSION: Prof. Dr. Osman YAZICIOĞLU

Fikret Özgür Coşkun Semanur Özüdoğru	Kafkas University	USES OF ARTIFICIAL INTELLIGENCE IN DENTISTRY
Prof. Dr. Osman YAZICIOĞLU	Istanbul Commerce University	SURGICAL ROBOTICS
Prof. Dr. Osman YAZICIOĞLU Oğuz BORAT	Istanbul Commerce University	SELECTION OF GLASS MATERIALS IN FAÇADE ENGINEERING
Abdullah E. Akay	Bursa University of Technology	PRODUCTIVITY ANALYSIS OF TWO SMALL-SCALE LOGGING SYSTEMS: A CASE OF KARACABEY FOREST IN BURSA, TURKEY
U.Elaiyaranan V. Satheeshkumar C. Senthilkumar	University College of Engineering	OPTIMIZATION IN ELECTRICAL DISCHARGE COATING PARAMETERS USING RSM BASED GREY RELATION ANALYSIS
Maroua Bengroun A. Azbouche N. Amrani L.Bounemia M. Benchabane	Nuclear Research Center of Algiers Bd Frantz Fanon	CHARACTERIZATION OF PLANT AND THEIR SOIL SAMPLES USING THE WAVELENGTH DISPERSIVE X RAY FLUORESCENCE TECHNIQUE
K. S. Tshivhi O. D. Makinde R. L. Monaledi	Stellenbosch University, South Africa	MODELLING HEAT TRANSFER ENHANCEMENT OF MHD NANOFLUIDS OVER A STRETCHING AND VERTICALLY MOVING HEATED SURFACE

SEISMIC HAZARD INCREASING IN WATER-SATURATED SOILS

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ABSTRACT

In recent years, the problem of weakly seismic and non-seismic areas prone to technogenic earthquakes caused by underground explosions, mining and anthropogenic impacts has become especially crucial. The main factors of the natural-technogenic seismic situation of the urban territories are the complex structural-tectonic and geological-lithological structure of the territories, the development of dangerous geological processes. At the same time, issues related to the forecast of activation (development) of hazardous geological processes and changes in engineering-geological and seismic properties of soils as a result of technogenic impact remain insufficiently studied. Urban development and technogenic impact on the environment contribute to increase water consumption, industrial and urban construction rising, change of natural riverbeds, reservoirs creation, the flooding processes development, which could cause and increase seismic hazards of technogenic origin for industrial and residential buildings, for dangerous technogenic objects [1–7].

Earthquakes destroy environmentally hazardous objects, roads, bridges and the most reliable buildings with the steel frame, interrupt the water supply, gas and electricity, cause explosions and fires. This leads to emergencies.

The destruction of modern reliable structures during the earthquake is usually associated not with low quality construction, but with the unfavorable behavior of the base soils and caused by effects: selective amplification of certain frequency fluctuations, flooding or partial loss of strength, landslides, including slopes. as a result of soils flooding.

Among the most dangerous geological processes that directly or indirectly affect the seismicity of built-up areas are gravitational (landslides, landslips, etc.), temperature (permafrost degradation), hydrogeological (flooding and drainage of areas), dynamic (thixotropy, subsidence), hydrochemical (leaching, clogging), etc. This also includes such technogenic measures as terrain planning of construction sites and various methods of land reclamation of the buildings and structures foundations.

In addition to seismic disturbances, the geological environment may be exposed to modern exogenous geological processes of natural or technogenic origin. These processes, in turn, could be activated in time and space under the influence of seismic disturbances.

Studies of destroyed buildings on different types of soils have shown the dependence of seismic intensity on the type of soil and its water saturation. It is proved that with increasing water saturation in shallow sediments, the theoretically calculated seismic velocities decrease in clay and increase in sand due to the corresponding stresses between particles in these media.

When the depth of the groundwater level is more than 10 m, its position does not affect the magnitude of the earthquake seismic intensity. Within the upper 10-meter stratum, the increase in the groundwater level from 10 to 0 m leads to the earthquake intensity increase and its intensity also depends on the type of soil stratum.

In some cases, S.V. Medvedev noted that the explosions according to the results of seismometric observations recorded the increase in the speed of oscillations almost twice on water-saturated soils in comparison with soils that are in the state of natural humidity [3].

Seismic surveys in the near-surface zone are complicated by variable water saturation, and the flooding process could also locally change soil properties by forming infiltration water domes, which must be taken into account in seismic microdistribution and develop new approaches to include these factors in seismic intensity predicting process.

Control over the development of flooding and the creation of hydrogeological maps should be the important contribution to the prediction of seismic intensity and prevention of emergencies provoked by the action of this phenomenon [8].

For the reasonable forecast of changes in the seismic properties of soils as a result of the influence of technogenesis, it has been recommended to conduct comprehensive research on special landfills. These studies should include engineering-geological, instrumental methods, including registration of earthquakes and explosions, as well as calculation methods.

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