

PAPER-1 (INVITED PAPER)

## **Academic Performance Evaluation in Universities and Technological Institutes**

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PAPER-2 (INVITED PAPER)

## **How to Contribute Effectively as Faculty?**

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**Abstract :** *availability of teaching media and above all on their feelings of devotion and dedication As a faculty member a professor is expected to play different roles in an institute He has to act not only as a teacher but more as guide, consultant innovator dynamic motivator and as researcher. The physical mental emotional social and moral development of students and trainees depends on the dedicated efforts of teaching staff. Faculty members are also expected to set educational and academic standards in tune with the working of an educational institute or college Teaching is an art We have to learn this art and also make teaching profession as one of the main sources of technical, technological and scientific development of a nation The question is how can our professors contribute effectively for making an institute or college a world class institution? An effort is made to suggest relevant ideas and to provide guidelines through key-words The success of any educational institute or college depends on competent learned and experienced teachers.*

PAPER-3

## **Cultivating Life Skills Among Technical Graduates**

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**Abstract:** *Students of any discipline get their degree/diploma/certificate after successful completion of course and passing the examination conducted by the authorized body. The course is completed in stipulated time and finally the examination is conducted based on the syllabus/curriculum prescribed by the university / board. The syllabus will be having topics, chapters, sub-topics in cognitive and in psychomotor domain, but hardly syllabus takes care of the third dimension that is affective domain, which deals with feelings & value system. Sometimes, it is also called as behavioural science. For the whole of the term, students attend the theory classes and perform experiments, complete their project work as per the requirement of the syllabus / curriculum, and finally appear in examination of theory papers and practical's and the term ends. With growing changes in the job market, life skills is the need for students to create their own individual employability profile and brand in order to compete successfully in today's highly competitive market place for engineering graduate jobs. In today's job market, having a degree is just one piece of the puzzle. Many abilities, value systems, attitudes needed to be developed by students are not taught, neither demonstrated nor examined, which are essential, in the absence of these abilities even good students having good-scored marks in final examination are rejected in campus interview. This article acquaints the significance of life skills for students, as well as attempts to provide with the tools and techniques to allow teachers to gain and communicate the range of life skills and behaviours that will make the young students employable.*

#### PAPER-4

### Emotional Intelligence at Workplace

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**Abstract:** Emotional Intelligence (EI) is the ability to identify, use, understand and manage emotions, in constructive ways; to alleviate stress, communicate effectively, understand others, overcome challenges, and resolve conflicts. Emotional intelligence has effect on many different aspects of the daily life, such as the way people act and behave with others. It needs high emotional intelligence to effectively use emotions, in constructive ways, among people. People with high emotional intelligence are able to distinguish their own emotional state and the emotional states of others. They bring themselves near to the people and engage in a better way. One can use emotions to communicate better with other people; form better relationships, accomplish greater success at work and lead a more rewarding life.

#### PAPER-5

### Physico-chemical Parameters for Predicting Antihypertensive Activity of Sulfonyl Carbamate Derivatives

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**Abstract :** 2D Quantitative Structure Activity Relationship (2D QSAR) studies were performed on a series of Sulfonylcarbamate Derivatives using some physico-chemical parameters. It was found that the Angiotensin-II activity of these compounds was highly correlated with these parameters. The regression analysis of the data has shown that a tri-parametric model containing MV (molar volume), MR (molar refractivity) and D (density) give excellent results. The predictive power of these models was examined by using cross-validation method.

#### PAPER-6

### Nighttime Enhancement in Ionospheric Electron Content at two Conjugate Locations

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**Abstract:** The high latitude ionosphere presents a region in which the processes of solar terrestrial relations are actively manifested. The polar ionosphere is rather changeable, especially during disturbed periods, and is considered an important object of experimental exploration. The ionospheric electron content observations provide data on structure and position of ionospheric regions and their dynamics. These observations allow a new approach to the process occurring at high latitudes. In the present work nighttime enhancement at two conjugate hemispheres of high latitude is taken. For this ionosonde ITEC data from two conjugate locations Chilton (520N-3590E) and Port Stanley (520S-3020E) during low solar activity period from January 2006 to December 2007 is taken into consideration. The events were looked as in terms of their time of occurrence of peak, their duration and their dependence upon local time, solar and magnetic activity. It is noted that most of the nighttime enhancements in ionospheric electron content are observed in winter season during post midnight hours at Northern Hemisphere, with maximum between 0100-0200 hours (LT) and in Southern Hemisphere during pre midnight hours with maximum between 1900-2100 hours. (LT). The duration of enhancement is often large in Northern Hemisphere as compared to Southern Hemisphere.

#### PAPER-7

## Road Accidents in India and China - An Overview

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**Abstract :** Road transport is vital for development of any nation. For development of any society road is basic necessity. Unfortunately because of inadequate attention to safety, road transport system has developed in ways that have led to significant loss of lives, health and wealth. As the motorization increases, preventing road traffic crashes and the injuries they inflict become an increasing social and economic challenge, particularly in developing countries like India. Road traffic injuries are major public health problem and leading cause of death and injury around the world. Every year nearly 1.3 million people die and millions more are injured or disabled as a result of road crashes, creating enormous social costs for individuals, families and communities. Road traffic injuries place a heavy burden on health services and economies of the nations. Accident cost to countries, many of which already struggle with economic development, is as much as 1-3% of their GDP [1]. If present trend continue, road traffic injuries will increase dramatically in most parts of the world over the next two decades, with the greatest impact falling on the most vulnerable citizens. China has been the only country who could show a decline in the number of accidents and fatalities because of accidents by strict enforcement, strong willingness and suitable coordination among various administrative agencies. Reliable and accurate data are needed to be revealed, to raise awareness about the magnitude of road traffic injuries and to convince policy makers for appropriate action.

#### PAPER-8

## Cyber Crime Security and Upcoming Challenges: An Overview

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**Abstract:** In the present scenario advent of technological revolution has given broader opportunities and scope to internet users but at the same time this has led to the global high-tech cyber crime. Internet has acted as an alternate avenue for the criminals to conduct their activities, and launch attacks with relative obscurity. Now a days cybercriminals are targeting the social and professional networks and threats are directed at the mobile platform like smart phones and tablets. The major cyber crimes reported in India are denial of services, defacement of websites, SPAM, computer virus and worms, pornography, cyber squatting, cyber stalking and phishing. The failure towards providing trusted secure services in modern computer network technologies has a remarkable socio-economic impact on global enterprises as well as individuals. Thus growing danger from crimes committed against electronic information on computers is alerting us to claim attention in national capitals and dedicated legislation on cyber crime to supplement the Indian Penal Code is demand of the state of art. In this paper an analytical approach has been introduced from emergence of cyber crime to prevention strategies used for cyber crime. We are also throwing light on present status of cyber crime, steps taken by government organizations to avoid cyber crime, upcoming challenges and also upon international accordance and solutions to deal with the same.

PAPER-9

## Seismic Analysis of Tall Buildings Considering Structural and Geometrical Parameters

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**Abstract-** In this study, seismic analysis of high rise building frames have been carried out considering 4 building plans, 3 diaphragms and 4 seismic zones. In this way total 48 frames were analysed for 27 load combinations. STADD-Pro software has been used for analysis purpose. Structural analyses results are collected in terms of maximum moments in columns and beams, storey displacement, peak storey displacement and drift which are critically analysed to quantify the effects of various.

PAPER-10

## Employability and Curricular Interventions in Technical Education

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**Abstract:** In the recent times 'employability' of diploma/degree graduates has become the great concern of developing countries, and more so for all of us in India. The article makes an attempt to discuss the key attributes of employability, various successful cases of enhancing employability of students while sharing experts' views & work, and possible curricular interventions at different levels of degree/diploma programmes highlighting the important aspects of employability to be integrated in curriculum.

PAPER-11

## Linear Interaction Analysis of Plane Frame–Soil System Subjected to Seismic Loading

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**Abstract:** The foundation of a high rise building frame needs to be considered to rest on settleable soil mass as a small differential settlements of the foundations may alter the forces of the structural members significantly. For high rise buildings it is essential to consider seismic forces in analysis. It has been considered to act the building frame, foundation and soil mass as single integral compatible structural unit in this study. The physical modelling of the problem is done by finite element method using variety of isoperimetric elements with different degrees of freedom. The unbounded domain of the soil mass has been discretized with coupled finite- infinite elements. The frame, and the soil mass have been considered to act linear elastic manner. The static method according to Bureau of Indian Standard has been used to evaluate earthquake forces. The interaction behaviour of building frame foundation- soil system resulted entirely different structural behaviour.

# Towards Theorizing an Operative Model on Assessment : An Optimal Approach

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***Abstract-** As is fairly well known, assessment has per se engaged the concern and attention largely because of its having some continuing features. Here, the assessment of a system as a whole is being investigated from the standpoint of modeling with a view to obtaining better insights into the stages of relevant decision processes. An optimal approach is being resorted to in the case of both crisp and fuzzy situations. The method of multi-objective criteria, usually accompanying such exercises, is also attended to, using the fuzzy methodology. Such investigations provide bounds of chosen attributes so that a decision maker can take on appropriate strategies on the basis of given weightages. Graphical models are found not only to reinforce mathematical modeling but also to understand aspects that could not be obtainable in earlier pursuits.*