



Dedicated to quality education

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KEC NEWSLETTER

KANTIPUR ENGINEERING COLLEGE www.kec.edu.np

Second SKIMA 2008 Conference

The second SKIMA 2008 conference is being organized by Kantipur Engineering College at hotel Soaltee Crowne Plaza from March 18 to 21, 2008. The aim of this international conference is to bring together researchers and commercial experts in knowledge management, software Engineering and Information System to share their knowledge, ideas and experiences. More than 50 research papers from various parts of the world are being presented in the conference. The main focus is at topics currently of

interests having immediate practical benefits. This conference is supported by and is a part of the international collaboration amongst professionals in Europe and Asia.

The conference has been divided into 11 sessions according to the field of research, each consisting of 4 to 5 papers. The fields of researches are Algorithm and Software development, Software Application, Supply chain Management, Software Development and Testing, Information System and database, Knowledge Management

and Network and Wireless applications. The keynote speakers for the conference are Prof. Takag Ikyushu University, Japan; Prof. Peter Cowling, University of Bradford, UK; Prof. Balan Gurumoorthy, Indian Institute of Science, India and Sugat Ratna Kansakar, Director, Nepal Telecom. We are honoured to have Mr. Pradeep Nepal, Minister for Education as the Chief Guest for the conference.

The Best paper will be awarded by the Best paper award.

Tutorial Session

On the 18th of March 2008, the college is organising International Tutorials Programme especially designed for Students. The aim of this tutorial session is to impart in-depth knowledge to the students who are enthusiastic in the field of Information and Communication Technology. There will be four tutorial sessions delivered by internationally renowned professionals and researchers from abroad, which will certainly benefit the interested students. Around 40 students from KEC as well as other educational institutions are expected to participate in the tutorial session.

The following are the details of tutorial topics and presenters

1. Scheduling and optimisation using soft computing techniques

Lecture by: Dr. Keshav Dahal and Dr. Alamgir Hossain, University of Bradford, UK.

2. Issues in Supply Chain and Product Lifecycle Management.

Lecture by: Dr. Gilles NEUBERT and Prof. Abdelaziz BOURAS University of Lyon, France.

3. Knowledge Engineering and Knowledge Management
Lecture by: Dr. Nopasit Chakpitak, College of Arts, Media and Technology, Thailand.

4. Mobile Technologies and Business Applications
Lecture by Professor Hongnian Yu, Staffordshire University, UK.

5. Introduction to Design Theory
Lecture by: Dr. YU Suiran, Shanghai Jiao Tong University, China.

Email on KEC's own Domain

Department of Computer and Electronics has developed email system with its own domain (e.g. skima2008@kec.edu.np) for the College. With this system one can quickly create and publish collaborative sites, publish and

collaborate in real-time on documents, spreadsheets, and presentations, organize schedules and share events and calendars with others, improve your existing mail account, SPAM filtering, and chat in the browser, central place to access

essential content and search the web and call or send instant messages to contacts for free - anytime, anywhere in the world. Mr. Subash KC and Mr. Rajan Kadel were involved in this development.

Principal's visit to China

Principal of KEC Er. Rameshwar Rijal attended the International Conference on Advanced Design And Manufacture (ICADAM2008) which was held in Sanya, China from 14-16 January 2008. The conference covered keynote presentations by internationally renowned researchers, contributed papers and PhD poster presentations emphasizing all core areas of engineering design and manufacture. The conference was organized as one of the major activities of the FASTAHEAD project, a European project entitled "A Framework Approach to Strengthening Asian Higher Education in Advanced Design and Manufacture" funded by Asia-Link programme.



He also attended the FASTAHEAD project meeting in collaboration with EAST-WEST project, the outcome report of which will be presented during the SKIMA2008 conference being held in Kathmandu.

Prize Distribution, Welcome & Farewell Program-2064



Kantipur Engineering College and Students' Council of KEC jointly organized a grand Prize Distribution, Welcome and Farewell Program on 16th Falgun, 2064 in the college premises to provide the accolade for those students who secured the top most position in the faculty and to welcome the new students of 2064 batch and also to bade a hearty farewell to the students of 2060 batch.

Er. Babu Ram Bhattarai, Dean of IOE was the chief guest of the program. The ceremony was privileged by the presence of Er. Basanta Chandra Marahatta, Principal of Acme Engineering College, Mr. Krishna Prasad Ghimire, Promoter of KEC. Er. Rameshwar Rijal, Principal of KEC presented college memento to the passed out students.

KEC has been providing an exceptional award titled "Laurel of the College" to the best student with outstanding academic performance and having excellent extra curricular activities. This year the Laurel of the college award was awarded to Ms. Jeny Amatya of final year Computer Engineering. Outstanding students in different activities were privileged during the event.

Mr. Ramesh Neupane, President of Students' Council, chaired the program and the program was mastered by Er. Ram Hari Dhakal. The program was made lively by the musical and cultural program organized by the students.

Donation to Flood Victims

Teachers and staff of KEC donated their one day salary to Prime Minister Disaster Relief Fund to help flood victims in different parts of the country.



Editorial

It is a well known fact that research and development activities are one of the essential parts of any educational institution. Such activities are commonly practiced in universities of the developed countries. However, educational institutions from developing countries like Nepal are found to be lagged behind in performing research activities especially in the field of information and communication technology (ICT).

In this context, KEC has made an effort to bridge the technological gap that exists between developed countries and Nepal by collaborating KEC with Euro-Asia Link project. One of the outcomes of this collaboration is Software, Knowledge, Information Management and Application (SKIMA) Conference. The second SKIMA 2008 conference, being organized by KEC at Kathmandu, is expected to provide opportunities to researchers, IT professionals, engineers and scientists in the field of ICT.

We hope that the newly established Research, Training and Consultancy Division at KEC will conduct more and more research and development activities in the future to bring KEC upfront in the field of ICT.

Publication Committee

Coordinator
Er. Subash K.C.

Members
Mr. Maha Datta Paudel
Er. Mukesh Khadka
Er. Bhanu Kaini

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Faculty Development

Problem Based Learning (PBL)

Er. Mukesh Khadka attained one day seminar on "Problem Based Learning (PBL)" jointly organized by Continuing Education Division (CED) and Department of Civil Engineering, Pulchowk Campus, IOE on December 13, 2007.

The main objectives of the seminar were to obtain knowledge about PBL, sharing experience from Aalborg University on PBL, establishing ties with the university and finding out future possibilities in continuing education. The resource person for the seminar was Prof. Mona Dahm of Aalborg University of Denmark.

MATLAB

A training on "MATLAB" was organized by Research, Training and Consultancy Division for the teachers and staffs. Er. Prajwal Osti was the resource person for the training.

Talk Program on Software Engg.

Er. Rabindra Khatri and Er. Pradeep Sapkota attended one day "Talk Program on Software Engineering" organized by Katmandu University on 24th Bhadra, 2064. The program was conducted by scholars from Christian Science Laboratories (Vienna, Austria). Main

emphasis was given to requirements analysis and newly designed tools.

IT Conference

Er. Santa Kumar Maharjan and Er. Rubesh Sharma attended the IT Conference organized by CAN from 1st to 2nd February, 2008. The main topics of the conference were 'Outsourcing Possibilities in Nepal', 'E-Governance (implementation plan in Nepal and example of E-governance)' and 'ICT manpower (demand, challenge, strategies)'.

Fifth Nepal Geological Congress

Er. Him Bandhu Upadhyay attended Fifth Nepal Geological Congress on "Geology, Environment and Natural Hazard Mitigation: Key to National Development" organized by Nepal Geological Society in collaboration with Department of Mines and Geology, Department of Irrigation, Nepal Electricity Authority and Tribhuvan University on 26-27 November, 2007.

The main topics on the congress program were:

- General geology, Tectonics, Seismicity
- Engineering Geology and Geophysics
- Natural Hazard and Environmental Geology

Distinction Holders-2064

BCE- IV/I, 060		BCX- IV/I, 060	
Dev Kumar Maharjan	86.61%	Pawan Karki	88.29%
Sujata Joshi	82.00%	Nabin Thapa	88.14%
Rupesh Mahat	80.15%	Sachin Shrestha	86.00%
BCE- III/I, 061		Bikash Shrestha	85.57%
Devendra Tamrakar	81.69%	Rajib Prajapati	85.57%
Madhu Timilsana	80.48%	Jeevan Pokhrel	84.85%
BCE- II/I, 062		Bijayandra Shakya	84.28%
Anil Basnet	83.87%	Amrit Sagar Khanal	83.71%
Binod Neupane	82.40%	Jivan Sigdel	82.71%
Surendra Maharjan	82.00%	Karna Limbu	82.42%
Pramod Khatiwada	81.33%	Sunil K.C.	82.00%
Prerana Chitrakar	80.53%	Shailendra Sapkota	81.85%
Rajib Shrestha	80.13%	Raju Ghimire	80.42%
BCE- I/I, 063		Sunil Kumar Shrestha	80.28%
Sudeep Thapa	89.67%	BEX- III/I, 061	
Madan Raj Bhatta	89.50%	Bipin Timalisina	86.31%
Ashish Shrestha	87.50%	Krishna Regmi	83.54%
Rajan Mulmi	85.67%	Ashish Sharma	83.08%
Sandhya Nepal	84.33%	Prabal Dhaubhadel	82.15%
Bikram Shrestha	84.17%	Bikrant Koirala	81.54%
Deepak Kumar Jha	82.33%	BEX- II/I, 062	
Shrena Pradhan	81.67%	Ananta Bhandari	85.55%
Sanjay Kumar Jha	80.83%	Ashok Koirala	83.74%
Rijan Amatya	80.83%	Ajaya Lama	83.61%
Anjay Shrestha	80.33%	BEX-I/I, 063	
Khagendra Jirel	80.17%	Sajala Maharjan	83.14%
Deepak Kuwar	80.17%	Mahendra Adhikari	82.85%
BCT-III/I, 061		Sagun Shrestha	82.57%
K.M. Heema	81.70%	Sanil Karmacharya	80.42%
Sunil Kumar Timalisana	80.24%	Prajan Pradhan	80.00%
BCT- II/I, 062		Prem Timsina	86.06%
Prem Timsina	86.06%	Hom Prasad Kafle	84.77%
Kusum Sharma	81.03%	Suchindra Maharjan	80.65%

Final Year Project Defence - 2060 Batch

Students of Civil, Computer and Electronics Engineering successfully defended their projects. 14 projects from Civil, 16 from Computer and 17 from Electronics Engineering were done by students in a given group of 3 to 6. To name few, the projects were:

Civil Engineering:

- Analysis and Design of Multy Storey Building
- Detailed Survey, Design and Estimate of Community Based Water Supply Projects
- Detailed Survey, Design and Estimate of Micro-Hydro Power Projects
- Analysis and Design of RCC Building by using SAP 2000
- Pre-feasibility Study of Small Hydro Projects
- Design of Earthquake Resistant Building
- Appropriateness of OTTASEAL in Rural Roads
- Detail Survey, Design, Cost Estimate of Road Project
- Feasibility Study of Upper Sunkoshi Hydropower Project

Computer Engineering:

- LAN Controller
- Model ISP
- Virtual Class Room
- Object Navigation System
- Cricket Scoreboard
- Devengari Optical Character Segmentation
- E-Education
- E-passport
- Bar Code Reading
- Bluetooth Mobile Game
- Web Load Balancing
- Computer Security and Management System
- Fingerprint Authentication System
- Intrusion Detection
- Online MIS
- Rojgari.com

Electronics Engineering:

- Voice Enabled Destination Indicator Using GPS
- Voiced Based Controller
- Rescue Robot
- Data Monitoring of an Environment Through a Mobile Device
- Security Through Mobile
- Smart Card
- Wireless Object Identification System
- Communication The Heart
- Home Security System
- Proximity Security System
- Internet and Device Control
- EPABX
- Microprocessor Based Wireless Door Security System
- Antenna Pattern Recognizer
- Radio Frequency Identification
- Solar Tracking with Temperature Sensor
- Automatic Meter Reading System



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Educational Visits & Survey for Students

To enhance ones' skill and reinforce theoretical knowledge, practical involvement is one of the most important aspects. Moreover, in the field like engineering, practical work is worth almost with theory. For the better output it should be carried parallel with the theory not only as a part of curriculum but also to provide information about the latest changes, developments and events in the world. Different site visits, educational tours and survey organised to the students were:

Sanitary Tour at BASP

Students of Civil III/II (2061 Batch) visited Waste Water Treatment Plant at Bagmati Area Sewerage Project, Guheshwori on 17th and 19th Mangsir, 2064. The main objective of this tour was to familiarize students with various waste water treatment processes. The treatment plant is the model treatment plant in Nepal. The tour was coordinated by Er. Sichu Shrestha.

Civil Aviation Authority

Students of BEX IV/II were taken on a visit to "Civil Aviation Authority" to be familiar with Radar Technology on 9th Poush. The tour was guided by Er. Bhola Budathoki.

Soil Exploration at Thapathali

Students of Civil III/II visited construction site at Thapathali, which is being explored by Viswo Consult Pvt. Ltd. on 10th Dec, 2007. The motive of the visit was to familiarize with different relevant equipments and operations of soil exploration. Er. Him Bandhu Upadhyay mentored the field visit.

Kali Gandaki and Manakamana Cable Car

Three days Kaligandaki Hydro Power and Manakamana Cable Car Tour was conducted for the students of fourth year, Computer and Electronics Engineering on 14th – 16th Ashwin, 2064. The main purpose of the tour was to make students familiar with the Power System and Control System.

System Operation Department

A one day educational tour was conducted for students of BEX- IV/I to System Operation Department, Suichetar, Kathmandu on 18th Baisakh 2064. This visit has helped students to boost up their knowledge on Power system and Communication.

Nepal Telecom

Educational tour was organized for BEX III/II on 17th and 18th of Mangsir and for BCT III/II on 19th Mangsir, 2064 to Nepal Telecom, Tripureshwor to enhance their knowledge on Communication System.

Bir Hospital

Students of BCT IV/II, taking elective subject "Biomedical Instrumentation" were taken to Bir Hospital on Mangsir 2064 to flourish their knowledge on this subject.

Radio Nepal

To get information about Communication System, students of BEX III/II, were taken to Transmission Station, Khumaltar, Lalitpur on 7th Mangsir 2064 to enhance their knowledge on Communication System.

C.G. Foods

Er. Prakash Sigdel led the students of Computer and Electronics, first year, to C.G. foods on Bhadra 2064, to get knowledge on machining and processing operations.

CAN-Infotech

Students of Computer and Electronics, first year visited CAN-Infotech 2008 on Jan 29, 2008 at BICC. It provided an opportunity to the students to learn more about new development and innovations in the field of IT.

Survey Camp

Fourteen days survey camp is going to be organized for the students of Civil Engineering 2062 batch from 9th to 22nd Chaitra, 2064 at Nepal Electricity Authority Training Center, Kharipati, Bhaktapur. This camp includes detailing for preparation of topographic map, road alignment surveying and bridge site surveying.

The survey camp will be coordinated by Er. Narayan Prasad Gautam and the other supporting teachers will be Er. Mukesh Khadka, Er. Him Bandhu Upadhyay, Er. Suchan Lamichhane, Er. Ram Hari Dhakal and Survey Instructor Mr. Tri Ratna Shakya.

Bajaj Auto

Students of Electronics and Computer, First year were taken to Bajaj Auto on Bhadra 2064 to get practical knowledge of different engine operations. Er. Prakash Sigdel coordinated the visit.



Participation in KUCC Software Meet 2008

A two-day KUCC Software Meet 2008 was conducted by Computer Club, Kathmandu University on 7th and 9th March 2008. It included Inter College Undergraduate Project Competition and Inter College Undergraduate Paper Presentation. KEC participated in both the events. Two projects 'e-Education' and 'KECMIS' from 4th Year Computer participated in the Project Competition. The project presenters of 'e-Education' were Ms. Jeny Amatya, Mr. Prakash Bajracharya, Ms. Rasma Dangol, Mr. Samrat Bahattachan and Mr. Satya Ram Twanabasu. The project presenters of 'KECMIS' were Mr. Chhabbi Pachabhैया, Mr. Kabin Tamrakar and Mr. Krishna Prasad Tripathy. Similarly, Mr. Pitamber Tiwari from 4th Year Computer presented a paper on Load Balancer.

The other participating colleges were Kathmandu University, Kathmandu University School, Pulchowk Campus, Kathmandu Engineering College, Kantipur City College, Advanced College of Engineering and Management and Nepal College of Information and Technology.

Students' Council

Election

The Students' Council Election was held on 1st Ashwin, 2064. The following students were elected in their respective positions.

Name	Position
Ramesh Neupane	President
Bikash Jha	Vice-President
Basant Raj Paudyal	Secretary
Deepak Kunwar	Joint-Secretary
Pawan Poudel	Treasurer
Anil Basnet	Member
Samesh Swongamikha	Member
Sanil Karmacharya	Member
Tej Prasad Dhamala	Member

Activities

1. Coding and Decoding system was initiated by the immense combined effort of the Students' Council of private engineering colleges affiliated to TU including KEC. This has been officially approved by Dean's Office, IOE to apply the system on all faculty of engineering. This system was initially applied as trial in case of Computer Engineering.

2. "A Profile of KEC Students' 2060 Batch" was published for the first time in KEC on "Prize Distribution, Welcome and Farewell Program-2064". It was distributed to the passing out students.



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Faculty Motivation and Promotion

Name	Promoted to	On the date
Er. Dhruba Lal Pradhan	Assistant to HOD of Civil Engineering	1st Ashwin, 2064
Er. Ram Hari Dhakal	Assistant to Exam Chief	1st Ashwin, 2064
Er. Rabindra Khati	Deputy Chief of Research, Training and Consultancy Division	1st Mangsir, 2064
Er. Bhupesh Kumar Mishra	Assistant to HOD of Computer and Electronics Engineering	15th Poush, 2064
Er. Netra Bandhu Baniya	Senior Lecturer	1st Falgun, 2064

Newly Appointed Teachers and Staffs

Senior Lecturers

Er. Subash K.C. M.Sc. in Information and Communication Engineering.
Er. Rajan Kadel M.Sc. in Electrical Engineering (Telecommunications)

Er. Subash K.C. and Er. Rajan Kadel are currently working as HOD and Deputy HOD of the Computer and Electronics Department respectively.

Lecturer

Er. Chudamani Bhandari B.E. in Civil Engineering
Er. Ravi Lal Sharma M.Sc. in Structural Engineering

Assistant Lecturers

Er. Arati Pokhrel B.E. in Civil Engineering
Er. Ananda Panta B.E. in Civil Engineering
Er. Dev Kumar Maharjan B.E. in Civil Engineering
Er. Jany Amatya B.E. in Computer Engineering
Er. Pitamber Tiwari B.E. in Computer Engineering
Er. Parshuram Koirala B.E. in Computer Engineering
Er. Pawan Karki B.E. in Electronics Engineering
Er. Anjan Narshingh Rayamajhi B.E. in Electronics Engineering
Er. Kaushallya Adhikari B.E. in Electronics Engineering
Er. Bijaya Sen Khadka B.E. in Electrical Engineering

Staffs

Mr. Ram Kumar Yadav Sub Engineer
Ms. Shanti Aryal Office Assistant
Mr. Pitamber Pokhrel Office Assistant
Mr. Nirmal Prasad Sharma Office Assistant

Staffs Motivation and Promotion

Mr. Khadga Bahadur Thapa, Mrs. Dinu Acharya, Mr. Sanu Kaji Desai, Mr. Shyam Kumar Maharjan, Mr. Ganesh Thapamagar and Hira Ale were graded as permanent staff at their respective positions.

Mr. Sanu Babu Maharjan, Mr. Iswor Lal Maharjan and Mr. Nipin Deo were promoted to Senior Lab Assistant. Mr. Subash Basnet and Mr. Ashish Lama were also promoted to Lab Boy.

Staff Development

General English Course

Mrs. Shrawana Joshi participated in a "General English Course" at British Council, Lainchaur from 20th Nov. 2007 to 18th Jan. 2008.

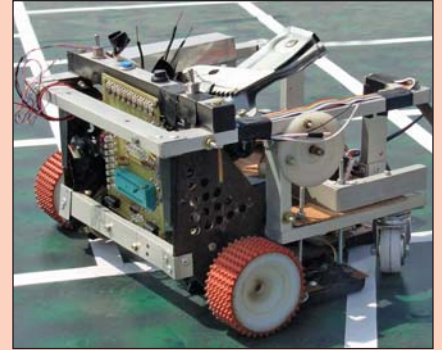
Best Staff Award

KEC has been providing "The Best Teacher Award" and "The Best Staff Award" to the faculty members and staff every alternate year. This year "The Best Staff Award" was awarded to Mrs. Bunu Adhikari, Senior Office Assistant, exam section. The gratifying day for Mrs. Adhikari was on 16th Falgun, 2064.



Robotics Competition

The inter college robotics competition is organized by Institute of Engineering, Pulchowk Campus yearly. Kantipur Engineering College has been participating in the competition each year. This year the theme of the competition is 'Bhote Jatra'. All the participating colleges should make their manual and automatic robots of weight within 50 kilogram. The main objective of the competition is to enhance knowledge of the students in the field of robotics and to use their knowledge practically in their future. The participants are: Arun Thapa, Ajay Kumar Shrestha, Ashok Adhikari, Ashok Raj Giri, Aashish Sharma, Bikash Poudel, Bipin Timilsina, Ravi Chandra Koirala, Samrat Subedi, Sri Ram Devkota and Prawal Dhaubhadel.



Saraswati Puja Celebration

The college celebrated Saraswati Puja on 28th Magh, 2064 in its own temple constructed within the complex. All students, staff and teachers were involved in the program and received Tika and Prasad from the priest. The college has been celebrating Saraswati Puja in its own premises for the last four years.

Farewell

On 4th Poush, 2064, KEC bid farewell with best wishes to Mrs. Bodh Kumari Bhattarai. Mrs. Bhattarai retired on the basis of age bar as per college rules and regulations.

KEC also bid farewell with best regards to Er. Shailja Rani Jha, on 13th Falgun, 2064. She was working as Acting HOD of Computer and Electronics Department.

Model Entrance Exam

Kantipur Engineering College organized a Model Entrance Examination for BE level on 15th Bhadra, 2064. The Model Entrance Examination was fully based on the IOE pattern and about 1150 students from different parts of the country participated in the examination. Top three students from the merit list were awarded full scholarships to study in the college. Beside this all the students achieving 70% or more were awarded with 100% scholarship in tuition fee.

KEC from last six years has been regularly organizing Model Entrance Exam prior to the entrance exam of IOE. The purpose of the exam is to make the students familiar about the pattern of IOE entrance exam and to enhance their preparations.

Model Entrance Exam was conducted to encourage intelligent and deserving students to continue their BE study. The examination was conducted in two shifts.

Students Enrolled in 2064

Civil		88
Computer	40	
Electronics		83